REMEDIAL INVESTIGATION WORK PLAN ADDENDUM

South Park Marina Seattle, Washington

Prepared for:

City of Seattle, Seattle City Light The Port of Seattle South Park Marina Limited Partnership

Project No. 190293-001-1.2 • August 23, 2022 • Final





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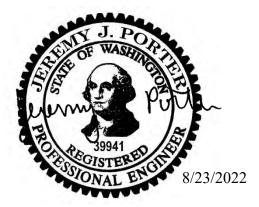
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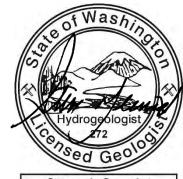
For submittal to the Washington State Department of Ecology

Prepared by:

Aspect Consulting, LLC



Jeremy Porter, PE Principal Remediation Engineer iporter@aspectconsulting.com



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Steve J. Germiat

Steve Germiat, LHGPrincipal Hydrogeologist
sgermiat@aspectconsulting.com

Zanna Satterwhite, LG Senior Geologist

Zanne Sat

zsatterwhite@aspectconsulting.com

Andrew Yonkofski, LHG

Senior Hydrogeologist ayonkofski@aspectconsulting.com

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Abbreviations

Aspect Aspect Consulting, LLC

ASTM ASTM International

bgs below ground surface

BEHP bis(2-ethylhexyl)phthalate

COC chemical of concern

cPAH carcinogenic polycyclic aromatic hydrocarbons

CSM Conceptual Site Model

CUL Cleanup Level

DQO Data Quality Objectives

Ecology Washington State Department of Ecology

EPA U.S. Environmental Protection Agency

HASP Health and Safety Plan

LDW Lower Duwamish Waterway

MHHW mean higher-high water

MTCA Model Toxics Control Act

NAVD88 North American Vertical Datum of 1988

NOAA National Oceanic and Atmospheric Administration

PAH polycyclic aromatic hydrocarbons

PARCCS Precision, Accuracy, Representativeness, Comparability, Completeness,

and Sensitivity

PCB polychlorinated biphenyls

PCE tetrachloroethylene

PCUL preliminary cleanup level

PLP Potentially Liable Party

PQL practical quantitation limit

QAPP Quality Assurance Project Plan

RI Remedial Investigation

SCR Source Control Review

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SPM South Park Marina

TCE trichloroethylene

TEQ total toxic equivalent concentration

TPH total petroleum hydrocarbons

UST underground storage tank

VOC volatile organic compound

SVOC semi-volatile organic compound

1 Introduction

In accordance with Agreed Order No. DE 16185 (the Agreed Order; AO) between the Washington State Department of Ecology (Ecology) and the Potentially Liable Parties (PLP) Group, which consists of South Park Marina Limited Partnership (SPM), the Port of Seattle (Port), and the City of Seattle (City), a Remedial Investigation (RI) is being conducted for the South Park Marina Site (Site) located at 8604 Dallas Avenue South in Seattle, Washington (Figure 1.1). The Site is located on the west side of the Lower Duwamish Waterway (LDW) from River Mile approximately 3.3 to 3.5, upstream of (to the south of) the South Park Bridge, and east of Dallas Avenue South (Figure 1.1).

The RI is intended to collect, develop, and evaluate sufficient information regarding a site to select a cleanup action under WAC 173-340-360 through 173-340-390. Additionally, the RI is intended to support Ecology's Source Control Strategy for the LDW by addressing existing, ongoing sources of contaminants to the LDW so as to minimize the risk of recontaminating sediments above levels requiring active remediation (in the near term) and to minimize the risk of recontaminating sediments above the sediment cleanup standards established in the LDW Record of Decision (in the long term) (Ecology, 2016). A draft Source Control Review (SCR) Memorandum was submitted to Ecology on January 21, 2022. Ecology comments on the draft SCR Memorandum were received on March 23, 2022. A draft final version of the SCR was submitted to Ecology on June 14, 2022 (Aspect, 2022) with Ecology comments received on August 10, 2022. The final SCR will be submitted to Ecology in August 2022, and additional explorations identified by Ecology in their review of the SCR are included in this RI Work Plan Addendum (Work Plan Addendum).

In support of the RI goals noted above, the following RI Data Quality Objectives (DQOs) were developed in the Work Plan:

- 1. Delineate contaminant nature and extent (lateral and vertical) and identify areas and media (soil and groundwater) requiring remediation.
- 2. Characterize site physical characteristics that influence contaminant fate and transport.
- **3.** Characterize the potential for contamination in Site soil and groundwater to migrate to LDW sediment or surface water.
- **4.** Characterize the potential for contamination to migrate via Site stormwater to sediment or surface water.
- 5. Characterize the potential for contamination to migrate via soil vapor to indoor air.

The first phase of field work for the RI (Phase 1) was completed in May 2021 in accordance with the RI Work Plan (Work Plan; Aspect, 2020). This Work Plan Addendum documents the data gathered in Phase 1, describes the Conceptual Site Model, identifies remaining data gaps, and describes proposed data collection activities intended to fill those data gaps during Phase 2 of the RI. This Work Plan Addendum is organized as follows:

- Section 2 Site Background describes updates to the information presented in the Work Plan regarding the property location and zoning, operational history, and current and future land use, as obtained from readily available existing information.
- Section 3 Environmental Setting describes updates to the Work Plan regarding topography, geology, and hydrogeology of the Site.
- Section 4 Phase 1 Field Investigation gives an overview of the work conducted during Phase 1 and identifies deviations from the Work Plan.
- Section 5 Data Summary summarizes and displays the Phase 1 field investigation and historical data.
- Section 6 Conceptual Site Model summarizes potential Site contaminants, the potential migration pathways, and the potential receptors and exposure pathways based on the collective information to date.
- Section 7 Data Gaps and Phase 2 Investigation summarizes data gaps for completing the RI and describes the data collection to fill the identified data gaps.
- Section 8 Schedule provides a proposed schedule, including a timeline for completion of Phase 2 and the subsequent RI deliverables.
- Section 9 References lists documents used or referenced in this Work Plan Addendum.
- Section 10 Report Limitations and Guidelines for Use describes the limitations for use of this document.

Tables and figures are located at the end of the Work Plan Addendum text after Section 10 and before the Appendices. Appendices to the Work Plan Addendum support the analyses and discussions presented in the main body of the text and tables and include:

- Appendix A Phase 1 RI Boring and Monitoring Well Logs
- Appendix B Phase 1 and Historical Results Data Tables and Figures
- Appendix C Phase 2 Sampling and Analysis Plan and Quality Assurance Project Plan

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2 Site Background

Site background information, including the Site location, land use, operational history, regulatory history, and infrastructure, and a description of adjacent sites, is provided in Section 2 of the Work Plan. As in the Work Plan, the cardinal directions for the SPM property are used. The SPM Property boundaries are oriented along the LDW, at an angle to true north. Project North refers to the direction downstream along the LDW.

The following sections provide additional background information identified since the Work Plan.

2.1 South Park Marina Fire

On September 2, 2021, a fire (2021 Fire) destroyed several vessels on the south end of the SPM Property and three structures: the lumber storage building and woodworking shop, a building used for boat storage and maintenance, and a storage shed. There was evidence of overland flow of fire-fighting water to the river in the southeast corner of the Site and onto the T117 site. Debris from the 2021 Fire was removed between March 17 and March 24, 2022. The area was visually inspected by Aspect on April 29, 2022, to identify surface materials and condition in advance of the Phase 2 site investigation. The area beneath the former buildings primarily consists of impervious surfaces (concrete slab or asphalt pavement) with limited areas of exposed soil. An updated map of current Site features is provided on Figure 1.1, including pervious surfaces and the approximate extent of the area affected by the 2021 Fire.

The area beneath these former buildings has not been characterized in previous environmental investigations. Removal of these buildings facilitates access for Phase 2 investigations to characterize soil and groundwater conditions. In addition, removal of the structures has potentially changed stormwater runoff characteristics in this area. Additional characterization of topographic drainage patterns in this area is planned for Phase 2.

2.2 South Park Marina Drainage System

Phase 1 activities included review of Site drainage patterns and inspection and sampling of stormwater and catch basin solids from catch basins located as close as practicable to outfalls. In addition, South Park Marina has continued to conduct stormwater sampling in accordance with its Boatyard General Permit and has conducted additional assessment in coordination with Ecology's Water Quality program. Additional information gathered relevant to Phase 2 investigations are as follows:

Drainage observations during the Phase 1 Wet Weather Site Walk and both stormwater sampling events did not identify overland flow of stormwater to the LDW. Stormwater infiltrated or was captured by Site catch basins and was not observed flowing over the shoreline block wall. Stormwater runoff on the boat ramp was not sampled as flow was *de minimis*. Additional observations during rain events to confirm these observations have been requested by Ecology during Phase 2 to support the SCR.

Based on utility locates performed by South Park Marina, catch basins CB-02, CB-03, and CB-04 are inferred to connect to catch basin CB-05 prior to discharging to the SPM

Outfall. Therefore, samples collected during Phase 1 from CB-05 represent combined discharge from those upstream catch basins. An updated drainage map is provided on Figure 2.1.

Uncertainties with respect to the storm drain system are described in Sections 4.2 and 5.4.8 of the SCR Memorandum (Aspect, 2022). The location and condition of the stormwater system has been characterized to the extent practical given access limitations to underground infrastructure. The uncertainties do not represent a data gap for the RI. However, contaminant concentrations in stormwater and catch basin solids can be variable, and stormwater samples have not been analyzed for LDW COCs (SVOCs, PAHs, metals, PCBs, and dioxins/furans) post-2021 fire. In accordance with Ecology comments on the SCR Memorandum, one additional round of stormwater and catch basin solids data for LDW COCs will be collected as part of the Phase 2 investigation to confirm consistency with the source control review analysis presented in the SCR Memorandum (Aspect, 2022). This round will include collecting a sample of StormwaterRx effluent and analysis for LDW COCs to evaluate concentrations that are entering the LDW post-treatment.

2.3 Adjacent Sites

The Work Plan identified four adjacent sites that are potentially relevant to the Site: the LDW, the T-117 Early Action Area (which included the T-117 property and adjacent streets and yards), a historical dry cleaner, and the South Park Bridge. Conditions and available data at these Sites relevant to Phase 2 have generally not changed since the Work Plan, with the following exceptions:

Surface sediment sampling to support remedial design for the LDW Upper Reach was performed in 2020 and 2021 at eight locations offshore of the SPM Property: LDW20-SS154, LDW20-SS158, LDW20-SS159, LDW-SS164, LDW-SS167, LDW20-168, LDW20-SS169, and LDW20-SS559 (LDW Pre-Design Investigation Phase 1 and Phase 2, 2020 and 2021, respectively). Additionally, one sediment sample was collected as part of the T-117 EAA long-term monitoring offshore of the SPM Property: PERIM-5-LTM. These new data, plus other historical sediment data collected within the SPM marina basin, are summarized in the SCR Memorandum (Aspect, 2022). Subsurface sediment sampling was also conducted as part of the LDW Pre-Design Investigation Phase 1 and Phase offshore of the SPM Property: LDW20-SC154, LDW20-SC158, LDW20-SC159, LDW20-SC161, LDW20-SC164, LDW20-SC167, LDW20-SC168, LDW20-SC169, and LDW21-SC560. The sediment data that may be relevant to the RI, including both surface and subsurface sediment, will be considered in the RI.

The T-117 Property has been redeveloped into a park with restored habitat areas. ¹ The park features and topography will limit the ability to advance Phase 2 explorations on the T-117 Property adjacent to the SPM Property. If drilled explorations on T-117 adjacent to the SPM Property are required, then access will likely be needed from the SPM Property and temporary removal of the fence would be required. Furthermore, the GAC mat could be compromised if drilling occurs outside of the sheet pile wall.

¹ T-117 Duwamish River Habitat Restoration and Public Access project, https://www.portseattle.org/sites/default/files/2018-12/Duwamish-river-habitat-restoration-T117.pdf

3 Environmental Setting

This section provides updated information regarding the SPM Property's physical characteristics, including topography, drainage, geology, and hydrogeology.

3.1 Upland Topography, Surface Drainage, and Shoreline Characteristics

A discussion of the upland topography and surface drainage is available in Section 3.1 of the Work Plan (Aspect, 2021). The following subsection summarizes those key details from the Work Plan as well as observations documented during Phase 1 of the RI that form the basis of the scope of work proposed for Phase 2 of the RI.

3.1.1 Surface Drainage

Approximately 99 percent of the SPM Property is located within four stormwater catchment areas that are described in Section 2.3.2.2.4 of the Work Plan (Aspect, 2021) and in Section 4.2.1 of the SCR Memorandum (Aspect, 2022). An ecology-block wall aligned along most of the SPM Property shoreline prevents stormwater sheet flow over the top of the bank into the LDW. The block wall is absent along the boat ramp in the northeast corner of the SPM Property; the boat ramp comprises approximately 0.1 percent of total property and drains directly to the LDW.

Based on visual observations during a Spring 2021 storm event reconnaissance and the subsequent unsuccessful attempts to capture enough runoff volume on the boat ramp to sample during a storm event as part of the RI Phase 1 data collection, overland runoff from the SPM Property via the boat ramp is considered to be *de minimis* (Aspect, 2022). Additionally, prior to the 2021 Fire (Section 2.1), less than 0.1 percent of the total property was mapped as draining to the 17th Avenue South storm drain in the southwest corner of the SPM Property. During the Spring 2021 storm event reconnaissance and subsequent stormwater sampling events, no overland flow was observed in this area. Drainage patterns in this area after the 2021 Fire have not been assessed.

3.1.2 Erodible Bank Soils

The riprap and bank soils on the waterward side of the ecology-block wall are typically submerged for part of the tide cycle, as the LDW fluctuates in elevation between a MHHW of 9.0 feet and a mean lower-low water (MLLW) of -2.4 feet (in NAVD88 vertical datum).² The upland portion of the SPM Property, and the subject of this Work Plan Addendum, is defined as the portion of SPM Property above the MHHW. The riprap and bank soils on the waterward side of the ecology blocks (and below MHHW) are part of the LDW Superfund Site. The base of the ecology-block wall along the shoreline is below the MHHW elevation.

During a wet-weather site walk in Spring 2021 and subsequent stormwater sampling events, no soil nor erodible bank soils were observed above the MHHW. Seeps have been observed discharging from the base of the bank³ and sediments offshore of it at

² In the MLLW vertical datum, the MHHW water elevation is 11.36 ft and the MLLW elevation is 0.0.

³ The toe/base-of-slope/bank is at approximately +2 Ft MLLW (-2.4 ft NAVD88).

approximate elevations of -2.3 to -2.7 feet during extreme low tide cycles; seeps are further discussed as part of the site hydrostratigraphy in Section 3.2.2 below.

3.2 Geology and Hydrogeology

Regional and Site geology and hydrogeology were described in detail in the Work Plan. Updates to the understanding of Site geology and hydrogeology based on Phase 1 are provided below.

3.2.1 Site Geology

The interpretation of the Site geology in the Work Plan was based on a review of available boring logs from SAIC (2008a) and TIG Environmental (2019), and this section describes updates to that interpretation based on the results of the Phase 1 RI field investigation. Locations of Phase 1 RI borings are shown on Figure 3.1, and the boring logs from the Phase 1 RI field investigation are included as Appendix A. These updates included characterizing the Glacial Till deposits which were not previously encountered and recharacterizing the "Silt with Organics" to "Tidal Flats" based on field observations of larger grain sizes within the unit.

Based on explorations completed to date, soils at the SPM Property are generally divided into five distinct units based on their depositional characteristics, outlined here from top to bottom:

- **Fill Unit**. Anthropogenic fill material, likely a result of the dredging of the LDW and/or regrading of nearby hills, is present throughout the SPM Property. The fill material generally consists of sand, silty sand, or sandy silt and has been documented at thicknesses up to 16 feet (MW-14) and an average thickness of approximately 10 feet. The anthropogenic fill material also includes a layer of base course that is present just beneath the paved portions of the SPM Property.
- Tidal Flat Deposits (Tidal Flat Unit). Tidal flat deposits can be characterized by their distinctive coloration (gray to red-brown) and sulfur-like odor, and generally consist of organic silt, silt, sandy silt, and silty sand. These deposits were present in nearly every boring drilled as part of the Phase 1 RI fieldwork, except in the area of the historical boat manufacturing building along the shoreline (further discussed below). Troost et al. (2005) mapped most of the SPM Property as a historical meander/oxbow of the Duwamish River and identified this unit as a younger alluvium that can locally contain soft peat lenses and woody debris, which is consistent with the organic material encountered during the Phase 1 borings. This unit has been documented at thicknesses up to 9.5 feet at the SPM Property, particularly in the northwest corner (further described below).
- Alluvial Deposits (Alluvial Unit). Alluvial deposits were present in all borings conducted during the Phase 1 of the RI (except for the hand auger locations which only evaluated soil conditions to 3 feet bgs). The alluvial deposits are typified by a sand with only a trace amount of fines and have been documented at thicknesses up to 10.5 feet, but it is important to note that the bottom of these deposits has only been observed in one boring (MW-05) at the SPM Property, as noted immediately below.

- Glacial Till (Till Unit). Glacial till was observed in one boring (MW-05, in the southeast corner of the SPM Property) that was advanced to a depth of 30 feet. The glacial till was described as a low plasticity sandy silt with gravel containing fine-grained sand and fine, rounded gravel, which appeared to be very stiff. The till graded downward to a gray, stiff silt. It should be noted that while the till was only encountered in one boring on the SPM Property, it has been observed in geotechnical borings conducted as part of the South Park Bridge replacement to the north (PB Americas, 2007) and in geotechnical borings conducted in the Dallas Ave ROW to the southwest of the SPM Property and on the T-117 property to the south of the SPM Property (Windward, 2010a).
- Pond Fill. Based on available historical data, the former A&B Barrel Co. waste disposal pond (Pond) was allegedly filled with debris from the 1960 Fire which destroyed the former A&B Barrel Co. facility. Pond fill material was not directly encountered in any of the Phase 1 RI borings, but because borings were placed near or outside the estimated extent of the Pond footprint, they were not expected to encounter this particular fill material. SAIC (2008a) described the fill material in the Pond footprint as silty sand and gravelly silt with anthropogenic debris, which was easily recognizable in the field and had a moderately strong chemical odor during drilling. SAIC (2008a) infers the former Pond was roughly 7 feet deep but borings conducted by SAIC and TIG Environmental did not vertically delineate the base of the Pond fill material: three of eight of the borings met refusal within the fill and the remaining five borings targeted shallow soil and were terminated at 8 to 10 feet bgs (SAIC, 2008a and TIG, 2018b). The estimated extent of the Pond footprint is based on available historical information from aerial photographs and Sanborn maps).

Locations of Phase 1 RI explorations are shown on Figure 3.1, which also includes locations of the transects for Cross Sections A-A' through D-D' (Figures 3.2 to 3.5). The following are key geologic interpretation uncertainties that affect the hydrogeologic Conceptual Site Model and will be addressed in the Phase 2 scope of work:

- The bottom of Pond Fill was not delineated in previous borings conducted by SAIC and TIG Environmental and is therefore uncertain ([A-A'] Figure 3.2).
- Variations in the presence and thickness of the Tidal Flat Unit suggest there may be significant heterogeneities in the thicknesses of these deposits across the Property, which affects the hydraulic connectivity of the Fill Unit and Alluvial Unit:
 - In the vicinity of the historical boat manufacturing building, the Tidal Flat Unit was not encountered in shoreline borings SB-27 and MW-08. This unit was observed at SB-28 located slightly further inland, but at a higher elevation and thinner than in other borings throughout the SPM Property ([B-B'] Figure 3.3).
 - The Tidal Flat Unit as observed in nearly all borings and varied in thickness between 0.5 feet at MW-12 and 10.5 feet at MW-13 ([C-C'] Figure 3.4). Additionally, as illustrated on Figure 3.5 [D-D'], the interpreted thickness of the Tidal Flat Unit was substantially different in the historical SAIC boring SB-10 as compared to the Phase 1 RI boring MW-15, even though they are located relatively close to one another.

3.2.2 Site Hydrostratigraphy and Groundwater Conditions

The depth to groundwater at the Site varies from approximately 6 to 14 feet below ground surface (bgs). Groundwater is encountered in the deeper Alluvial Unit and, at least seasonally, in the shallower Fill Unit. Groundwater conditions are affected by seasonal changes, geological variability, and subsurface features (including a sheet pile wall installed at the marina's southeast corner for geotechnical stability during the T-117 EAA Phase 1 removal action). All Site groundwater ultimately discharges to the LDW, with seeps observed at extreme low tides.

Phase 1 measurements included a limited tidal study with conductivity and pressure transducer data loggers,⁴ depth to water measurements during drilling and groundwater sampling events, and measurements of shoreline seeps including location, elevation, flowrate, and field parameters. Representative contour maps showing various tidal stages are included on Figure 3.6, and hydrograph and conductivity responses at Site monitoring wells are shown on Figures 3.7 and 3.8. Key observations that inform the Phase 2 scope of work include:

- Fill Unit Saturation. Fill soils were saturated in every location during Phase 1 fieldwork in March 2021. During SAIC's investigation in September 2007, no saturation was encountered in Fill soils at the south end of the Property, suggesting there may be seasonal variation in saturation in the Fill Unit. Depending on timing of the fieldwork for Phase 2 of the RI, different groundwater conditions may be encountered in the Fill Unit.
- Precipitation Effects. In unpaved areas of the SPM Property, precipitation results in increased groundwater elevations (e.g., MW-6) in the Fill Unit, whereas responses to precipitation were not as apparent in areas of the SPM Property covered by large portions of asphalt (e.g., MW-12). Additionally, the largest increase in groundwater elevation as a response to precipitation was observed at MW-14 (Figure 3.7), which is near the bioinfiltration gallery constructed as part of the Dallas Ave ROW stormwater infrastructure upgrades. The effects of infiltration close to this portion of the SPM Property will be further evaluated in Phase 2 of the RI.
- Shoreline Groundwater Elevations. All shoreline monitoring wells in the Fill Unit go dry during the lower-low tide stages with the exception of MW-07. MW-07 may not go dry due to either the bedding of the Tidal Flat Unit, which forms a trough along the shoreline near MW-07 (Figure 3.8), redirected groundwater flow around the sheet pile wall in the vicinity of the former A&B Barrel Pond, or some combination thereof. It should be noted that there was a distinct high-plasticity clay layer at 9.5 to 10.5 feet bgs at MW-07 at the bottom of the Fill Unit and top of the Tidal Flat Unit that was not encountered in any of the other borings advanced throughout the SPM Property. Further evaluation will be conducted as part of the

.

⁴ As part of the Phase 1 RI fieldwork, pressure transducers were installed at select monitoring wells throughout the SPM Property to assess tidal lag and choose groundwater sampling times for each well (relative to tide stage).: MW-04, MW-06, MW-07, MW-08, MW-09, MW-11, MW-12, MW-13, and MW-14. The transducers were deployed for 10 days prior to retrieval and analysis. The transducer placed in MW-05 malfunctioned so MW-05 data are not depicted in graphs.

- Phase 2 of the RI. Additionally, sampling windows relative to tidal stages for Fill Unit monitoring wells which go dry will be adjusted for Phase 2 of the RI.
- Effect of Sheet Pile Wall. The monitoring wells in the former Pond Area (MW-04, MW-05, and MW-06) do not go dry, even though they are relatively close to the shoreline Figure 3.8). This is likely due to mounding of groundwater in the Fill Unit behind the sheet pile wall that fully penetrates the Fill Unit along the southeast SPM Property corner. It is unclear from available records whether the sheet pile wall fully penetrates the Alluvial Unit. The sheet pile wall is thought to act as a barrier to groundwater flow, but Fill Unit groundwater is expected to flow through seams between the individual steel sheets comprising the wall and through weep holes reportedly drilled through the wall, so the wall is not completely impermeable to seepage. Further evaluation of groundwater flow in this area will be conducted as part of Phase 2 of the RI.
- Connectivity Between the Fill Unit and Alluvial Unit. Based on the available data reported by SAIC (summarized in the Work Plan) and data collected from Phase 1 of the RI, groundwater elevations in the Fill and Alluvial Units appear to be of similar elevations as shown on Cross Sections A-A' and B-B' (Figures 3.2 and 3.3). However, it is unclear how Fill Unit groundwater may or may not interact with Alluvial Unit groundwater and whether the Tidal Flat Unit acts as an aquitard to limit vertical flow of groundwater between these units. This interconnectivity, or lack thereof, between groundwater present in the Fill Unit and Alluvial Unit remains a data gap and objective of Phase 2 sampling as discussed further below in Section 7.1.6.
- Marina Corner Seep Observations. SAIC (2008) did not observe seeps on the SPM Property but did observe some seepage zones on the T-117 Upland Property just south of the SPM Property. Windward (2010) documented a single seep just south of the marina boat ramp on the SPM Property. During the T-117 EAA Phase 1 sediment and upland removal action (2013-2014), the bank at the south end of the SPM Property sloughed during excavation and dredging offshore of this area. The steel sheet pile wall was installed along the SPM Property's southeast corner prior to excavation to provide geotechnical bank stability support during excavation near the marina corner. Groundwater seepage was observed after the bank sloughed during low tide, discharging from an approximate elevation of 4.5 to 5.5 feet NAVD88, which would be in the Tidal Flat Unit. Seep samples were collected.
- Phase 1 Seep Observations. During Phase 1 of the RI, the presence of seeps was evaluated during multiple reconnaissance events: the Spring 2021 storm event and during the two stormwater sampling events (March 4 and May 27, 2021). Seeps were observed on May 27, 2021, at an extreme lower-low tide (-6.2 feet NAVD88). On this date, seeps were observed daylighting at the base of the riprap slope along the SPM Property shoreline. Aspect returned to the SPM Property on June 25, 2021, as the lower-low tide reached an elevation of approximately -6.4 feet to document the presence of seeps. A total of 37 unique seeps were identified, and the locations of the northern most 23 were recorded. The southern seeps were observable by field staff standing on the top of the ecology retaining block wall but could not be safely accessed due to the steep slope. The elevations of two seeps

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were measured at -2.3 and -2.7 feet NAVD88, and the remainder of the seeps appeared to daylight at similar elevations. All seeps appeared to daylight where the slope of the riprap meets the relatively flat sediment deposits in the marina basin, and not further up the slope behind the riprap.

Aspect returned during a subsequent extreme lower-low tide cycle on July 22 and 23, 2021 (-5.2 and -5.8 feet NAVD88, respectively) to install conductivity dataloggers, record water quality parameters, and measure representative flow rates from six seep locations. Field parameters indicated that water discharging from the seeps at low tide was much more saline than groundwater observed in Fill Unit shoreline monitoring wells. Seep electrical conductance ranged between approximately 25,000 and 40,000 microsiemens per centimeter, indicating that the discharging groundwater was highly saline transitional zone groundwater. Flow rate approximations varied between 12 to greater than 44 liters per minute (approximately 3 to greater than 12 gallons per minute). Further evaluation of groundwater discharge to the LDW, the interconnectivity of Fill Unit groundwater to Alluvial Unit groundwater, and characterization of Alluvial Unit groundwater, is planned for Phase 2. No direct sampling of seeps is currently planned in Phase 2.

4 Phase 1 Field Investigation

Field activities for Phase 1 of the RI were conducted between February and June 2021 and consisted of the following activities:

- February 2021 Conducted a wet-weather site walk to document stormwater system conditions and the potential for overland flow and/or bank erosion.
 Conducted an additional site walk to mark locations for soil borings and monitoring wells and coordinate access to the locations with SPM.
- March 2021 After conducting a utility locate, completed two hand augers (HA-01 and HA-02), nine soil borings (SB-26 to SB-34) and installed 12 monitoring wells (MW-04 to MW-15) as identified in the Work Plan. The field team also collected the first set of stormwater samples and installed and retrieved pressure transducers to monitor tidal responses at monitoring wells. No evidence of potential cultural resources or human skeletal remains was encountered during the Phase 1 field investigation (Willamette 2021).
- April 2021 Conducted groundwater monitoring and sampling (except for PCB congeners) at all existing SPM Property monitoring wells and conducted catch basin solids sampling.
- May 2021 Collected the second set of stormwater samples and collected groundwater samples from select monitoring wells for PCB congener analysis based on the analytical results for PCB Aroclors from the Property-wide groundwater sampling event.
- June 2021 Documented the presence and location of seeps observed at extreme low tides along the shoreline.
- July 2021 Evaluated water quality and quantity at select seeps observed at extreme lower-low tides along the shoreline.

Phase 1 activities were conducted in accordance with the Work Plan, with the exceptions noted below, and will be further detailed in the RI report.

4.1 Summary of Deviations from Work Plan

Phase 1 of the RI was conducted in general accordance with the Work Plan except for minor deviations. These deviations did not affect data quality objectives, but some of these deviations provide insight into how Phase 2 activities will be conducted. Work Plan deviations and their relevance to Phase 2 activities are summarized as follows, with more detail included in the Phase 2 SAP/QAPP (Appendix C):

• During the initial site walk to mark boring locations, a conflict with an overhead utility was identified and consequently the boring was shifted approximately 12 feet to the east to accommodate the drill rig's mast. During Phase 2 activities, presence of overhead utilities may require boring locations to be shifted and/or the use of different equipment (such as limited access drill rig).

- The Work Plan SAP/QAPP identified the use of 2.25-inch-outer-diameter tooling, which uses 1.5-inch-inner-diameter plastic liners for collecting soil cores. During the Phase 1 RI fieldwork, the volume of soil from these 1.5-inch cores was insufficient to fill all the containers requested by the analytical laboratory. Therefore, 3.75-inch-outer-diameter tooling was used with 3-inch-inner-diameter liners to increase soil volume for chemical analysis. Phase 2 activities will be completed using the 3.75-inch-diameter (or larger) core in order to collect adequate soil volume for analysis. Furthermore, sonic drilling methods will provide more volume; the SAP is written to anticipate potential additional borings if inadequate direct push volume is obtained.
- During Phase 1, a vactor truck was used to clear one drilling location to prevent striking potential private electrical utilities. A hand auger was used to collect shallow samples prior to vac clearance of the borehole to avoid disturbing soil samples before collection for laboratory analysis. During Phase 2 activities, vactor trucks may also be used to clear drilling locations in cases where utility locations are unclear. If a vactor truck is used for shallow utility clearance during Phase 2, a hand auger will be used to collect shallow samples prior to vac clearance.
- During Phase 1, several borings were drilled deeper than anticipated to characterize and confirm the contacts of stratigraphic units. Although expected boring depths will be more accurate for Phase 2 adjustments in the field may be necessary given the fluctuations of geologic contacts. This flexibility is incorporated into the SAP/QAPP.
- The timeframe in which to sample tidally influenced monitoring wells was calculated by correlating the lowest conductivity and water level measurements at each well with the low tide recorded at the NOAA station number 9447130, which is located in Elliott Bay, rather than station number 9447029 identified in the Work Plan, because station 9447130 measures actual tide fluctuations whereas 9447029 is a predictive station. The Elliott Bay station will also be used in the Phase 2.
- Because shoreline monitoring wells dried up during the lower-low tide cycle, groundwater sampling windows were adjusted to be 1.5 hours before the predicted time for the groundwater elevation to reach the bottom of each screen and for the well to go dry. This modification to the sampling window was discussed with and approved by Ecology during the monthly Ecology-PLP meeting on April 8, 2021. This modified sampling window did not result in sufficient groundwater volume for all laboratory analyses at certain shoreline monitoring wells during the 2021 sampling event (particularly MW-09 and MW-10). This sampling protocol has been further revised (i.e., longer sampling window) to maximize groundwater sample volume obtained during Phase 2, as described in the SAP/OAPP (Appendix C).
- For PCB congener groundwater sampling, platinum-cured silicone tubing was used both down well and through the pump head during low-flow sampling conducted for PCB congener analysis, rather than using flexible copper tubing down well as identified in the Work Plan, because a source of suitable non-recycled tubing was not identified. PCB congener analysis is not identified for Phase 2 activities; however, if congener analysis is required, platinum-cured silicone tubing will be used in place of flexible copper tubing to collect groundwater sample volume.

5 Data Summary

The Work Plan identified soil and groundwater screening levels to address the environmental transport and exposure pathways applicable at the Site for the protection of LDW receiving sediment and surface water. These screening levels were based on Ecology's 2019 Lower Duwamish Waterway Preliminary Cleanup Level [PCUL] Workbook and Supplemental Information (PCUL Workbook). Screening levels for media not regulated under MTCA (stormwater and catch basin solids) were developed in the Work Plan to assess potential contaminant transport to the LDW via stormwater and the potential for stormwater source control measures. These screening levels were developed as described in Appendix C of the Work Plan. For the purposes of this Work Plan Addendum, RI screening levels have been updated based on the February 2022 update of the PCUL Workbook. These RI screening levels do not necessarily represent cleanup levels for the Site and do not consider potential adjustments for PQLs, background, or empirical demonstration of cross-media transport.

A summary of RI screening level exceedances by media for all samples collected (historical and Phase 1) is included as Table 5.1. Statistical summaries of exceedances for Site media, including the frequency of exceedance and magnitude of exceedance, are included in Appendix B and discussed below. Based on frequency of exceedance and consistency of exceedances across different media, certain analytes are considered key risk drivers and representative of each analyte class and are therefore displayed on figures for the purposes of evaluating data gaps to be addressed in Phase 2. A more extensive summary and discussion of results will be presented in the RI.

Phase 1 data for soil (vadose and saturated zones), groundwater, stormwater, and catch basin solids are included in Appendix B as Tables B.1 through B.5. Statistical summary tables that included both Phase 1 and historic data for soil and groundwater were used to identify contaminants of interest to assist in evaluating data gaps and are included in Appendix B as Tables B.1 through B.9. Statistical summary tables for stormwater and catch basin solids are not included in this Work Plan Addendum.

Figures B.1 through B.18 present select representative contaminants for vadose and saturated zone soil. Figures B.19 through B.27 present the same information for groundwater.

6 Conceptual Site Model

The Preliminary Conceptual Site Model (preliminary CSM) describes potential on-Property and off-Property sources of contaminants (historical and current), potential site contaminants, potential contaminant migration pathways, and potential receptors and pathways by which they may be exposed to SPM Property-derived contaminants. Chemicals detected above screening levels during Phase 1 include metals, PCBs, Dioxin/Furans, PAHs, VOCs, SVOCs, pesticides and herbicides, and TPH, and are summarized in Table 5.1. Potential contaminant migration pathways include but are not limited to soil leaching to groundwater, groundwater discharging to surface water and sediment, and soil erosion to stormwater discharging to surface water and sediment. Potential receptors include humans, wildlife, fish and aquatic organisms, and benthic organisms.

A detailed description of the preliminary CSM is included in Section 7 of the RI WP (Aspect, 2021) and is shown here as Figure 6.1.

The 2021 Fire may have affected the CSM by potentially releasing contaminants to the subsurface soils. The 2021 Fire and subsequent demolition of affected structures also exposed more pervious surfaces to infiltration, although the additional pervious area is relatively small as described in Section 2.1. Firefighting water and the fire itself carried debris and other waste material to and into the river both directly via overland flow as well as indirectly via the stormwater treatment system.

None of the information presented in the preliminary CSM has changed as a result of the Phase 1 investigation, although data gaps have been identified that when filled may change the CSM. These data gaps are discussed in Section 7 below. A more extensive discussion of the CSM will be presented in the RI report.

7 Data Gaps and Phase 2 Investigation

As anticipated in the Work Plan, additional data are needed to complete characterization of the Site in accordance with MTCA. This Section is organized as follows:

- Section 7.1 discusses data gaps identified following the Phase 1 investigation as well as those identified by Ecology in their review of the SCR Memorandum.
- Section 7.2 summarizes the Phase 2 investigation scope and approach.

A detailed description of data collection activities is provided in the Phase 2 SAP/QAPP (Appendix C).

7.1 Identification of Data Gaps

Data gaps were identified following the Phase 1 investigation and during the source control review. These data gaps include:

- The lateral and vertical extent of soil contamination: delineation of contamination exceeding soil screening levels at the north and west⁵ of the South Park Marina property; and refining extents of hot spots of contamination identified during Phase 1 to facilitate remedial alternative evaluation.
- Extent of groundwater contamination at shoreline: Limited shoreline groundwater data for some analytes to evaluate the potential migration of Site contaminants to the LDW.
- Extent of groundwater contamination in alluvial groundwater: Although alluvial groundwater has been historically sampled, there were elevated PAH and PCB detection limits in the historical groundwater samples, and the wells have since been decommissioned. In addition, the historical alluvial groundwater wells were in only the southeast corner of the Site.
- Leaching of contaminants from soil to groundwater: The soil-to-groundwater leaching pathway appears to be complete for some potential site contaminants, but not all, based on Phase 1 data. Some potential site contaminants exceed RI screening levels for soil that are based on this pathway but do not exceed RI screening levels for groundwater. Additional groundwater data, including evaluation of seasonality on groundwater quality, is needed to further evaluate this pathway.
- Potential contamination in surface soil in the 2021 Fire area: Surface soil quality in the Pond Area was characterized in Phase 1 but may have been affected by the 2021 Fire.
- Potential contamination in soil and groundwater west of the Pond Area. This area, which is within the 2021 Fire area, previously had limited accessibility and

⁵ Soil to the south of the SPM Property was remediated as part of the T117 cleanup action. Similarly, soil to the west of the SPM Property was remediated as part of the Streets and Residential Yards cleanup.

had not been characterized. With removal of the buildings, access to this area has been improved.

- Changes in Infiltration in the 2021 Fire Area. Infiltration in the 2021 Fire area may have increased due to changes in the ground surface (building removal), which includes limited areas of pervious material being exposed. An evaluation of groundwater quality in this area is warranted for Phase 2.
- Site-wide groundwater flow/tidal response, and migration of dissolved-phase contaminants in groundwater and discharge to sediment and then surface water of the LDW: Groundwater flow patterns at the Site were characterized in Phase 1 with a limited tidal study and did not include characterization of alluvial groundwater. This characterization indicated that flow patterns are sensitive to precipitation, tides, and geology. Groundwater flow patterns at the Site, including around the sheet pile wall, along the shoreline, and in the boat maintenance area, need further definition in Phase 2. The relationship /connectivity of groundwater between the Fill Unit and Alluvial Unit groundwater (e.g., does Fill Unit groundwater migrate vertically to the Alluvial Unit, or the degree to which the Tidal Flat Unit functions as an aquitard) needs to be further defined through both physical evaluation and assessment of Alluvial Unit groundwater quality.
- Vapor-phase transport of volatile contaminants from vadose zone soil or shallow groundwater to soil gas and then to indoor air inside existing structures: Soil and groundwater concentrations of volatile organic compounds (VOCs) in the area downgradient of the former off-property dry cleaner are a potential vapor intrusion concern to occupied structures. More data are needed in the former service station/tire shop area to evaluate potential migration of VOCs to soil vapor and indoor air.
- Limited geologic information at depth: Only one boring at the Site has gone deep enough to identify the base of the Alluvial Unit, and the depth likely varies across the Site. More data are needed regarding geology within the depth of impacted soil and groundwater.

More detail on data gaps and Phase 2 activities to address them⁶ are discussed below, organized into subsections representing the following site areas:

- Former A&B Barrel Pond (Pond) Area, which includes the area around the former Pond, the southern portion of the shoreline, and a portion of the 2021 Fire area
- Southwest Property Area, which includes a portion of the 2021 Fire area
- Boat Wash and Historical Boat Manufacturing Area, which includes the central portion of the shoreline
- Boat Maintenance Area, which includes the northern portion of the shoreline and the central portion of the SPM Property

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⁶ In identifying Phase 2 actions to address data gaps related to the lateral extent of contamination, remedial actions on adjacent sites were considered: e.g., soil sampling was not proposed within the T117 Early Action Area which includes the T-117 property as well as portions of Dallas Avenue.

 Former Service Station Area, which includes areas downgradient of the offproperty former dry cleaner.

The general extent of each of these areas, and the proposed exploration locations for each area⁷, are shown on Figure 7.1.

7.1.1 Pond Area

The A&B Barrel Pond Area has been the most highly characterized area of the Site, and relatively high exceedances of many contaminants including PCBs, metals, TPH, PAHs, pesticides, and VOCs have been detected in this area, with the highest concentrations detected within or immediately adjacent to the former Pond location.

Soil and groundwater data gaps remaining in the Pond Area after the Phase 1 investigation are described below.

7.1.1.1 Soil Data Gaps

Soil data gaps include:

- The vertical extent of soil contamination in the former Pond Area. The deepest soil sample collected in the former pond area (26.5 to 28 feet bgs at MW-5) had exceedances of PCBs (Figure B.12), aldrin (Figure B.2), TBT (Figure B.10), chromium, nickel, and PAHs (Tables B.1 and B.2 in Appendix B).
- The lateral extent of soil contamination to the west of the former Pond Area and west of SB-26. Multiple potential site contaminants exceeded screening levels including copper and zinc (Figures B.5 and B.7), PCBs (Figure B.12), Diesel- and Oil-Range TPH (Figure B.17), cPAHs, and dioxins/furans in the vadose zone and PCE (Figure B.14), PCBs (Figure B.12), pesticides including aldrin (Figure B.2), and PAHs (Tables B.1 and B.2 in Appendix B) in the saturated zone.
- The lateral and vertical extent of dioxin/furan contamination. Limited sampling was performed in Phase 1 for these analytes. The one soil sample analyzed (surface soil at SB-26) indicated a relatively high total dioxin/furan TEQ concentration above screening levels (0.00255 J mg/kg) but was also collocated with high concentrations of other contaminants. Additional data are needed to determine if this correlation is consistent in this area.
- Surface soil quality in this southern portion of the Site may have been affected by the 2021 Fire.

7.1.1.2 Groundwater Data Gaps

Groundwater data gaps include:

• The Fill Unit water bearing zone contains PCB and pesticide concentrations above screening levels throughout the former Pond Area. These groundwater exceedances

⁷ Additional step-out soil borings may be deemed necessary by field staff to delineate contamination exceeding soil screening levels at the north and west edges of the Site if clear evidence of contamination (e.g., strong odors, sheens, or product) is observed in the field at a boring that is not bounded. This will ensure a comprehensive Phase 2 investigation when complete; more detail is included in the Phase 2 SAP/QAPP (Appendix C).

have not been laterally delineated to the west (upgradient of Pond Area), to the south (towards the T-117 property line), and to the northwest (in the Boat Wash area).

- Historical groundwater samples from the Alluvial Unit contained pesticide concentrations, including aldrin, which exceeded screening levels (Figure B.19). There are no existing Alluvial Unit groundwater wells in the Pond Area, and the historical Alluvial Unit groundwater data was collected prior to installation of the sheet pile wall which may affect vertical distribution of contaminants. Further investigation of Alluvial Unit groundwater quality is needed.
- In addition to Alluvial Unit groundwater quality, the flow dynamics of Alluvial Unit groundwater require further investigation. Concentrations of potential site contaminants were generally higher in the Fill Unit soil as compared to the Alluvial Unit soil, and the interconnectivity of these units is critical to inform the conceptual site model. Both the interconnectivity of Fill Unit and Alluvial Unit groundwater and potential flow effects from the sheet pile wall in both units require investigation in Phase 2.
- The effects of the sheet pile wall on groundwater flow are not fully understood. Existing water level data indicate that the sheet pile wall redirects the majority of the Fill unit groundwater flow in the Pond area northward to the edge of the sheet pile wall (MW-6 location) where it discharges eastward to the LDW. However, some Fill unit groundwater is expected to flow through seams between the individual steel sheets comprising the wall and through weep holes reportedly drilled through the sheets. It is assumed that the Tidal Flats deposit is present in this area, but that has not been verified below the Pond footprint. In addition, it is unclear whether the toe of the sheet pile wall fully penetrates the Alluvial unit. Further water level data collection and geologic characterization is warranted. It should be noted that access constraints will preclude the installation of monitoring wells to the south or east of the sheet pile wall, which may prevent resolution of every data gap related to groundwater flow in the vicinity of the sheet pile wall; however, the proposed scope of work in Section 7.2 will provide additional data to refine the understanding of groundwater flow conditions in the southeast portion of the SPM Property.

7.1.1.3 Proposed Explorations

To fill the data gaps in the former Pond Area, the following work will be performed during the Phase 2 investigation, as outlined in Tables 7.1 and 7.2 and on Figure 7.1:

- Three new Alluvial Unit wells will be installed to be generally collocated with existing Fill Unit wells, as follows:
 - MW-04D will be installed near MW-04 to characterize Alluvial Unit groundwater quality and flow direction near/around the upgradient end of sheet pile wall.
 - MW-05D will be installed near MW-05 to characterize the vertical extent of soil and groundwater contamination on the downgradient edge of the assumed historical extent of the A&B Barrel Pond.

- MW-06D will be installed near MW-06 to characterize Alluvial Unit groundwater quality and flow direction at shoreline and around the sheet pile wall that extends into the Alluvial Unit.
- One new Fill Unit monitoring well (MW-16) will be installed to characterize Fill Unit groundwater within the former A&B Barrel building footprint, on the upgradient (west) side of the Pond Area and downgradient side of the Southwest Property Area, and for lateral characterization of soil exceedances at SB-26. One additional Alluvial Unit monitoring well will be installed to characterize Alluvial Unit groundwater in the Southwest Property Area. The default location for this well will be next to MW-16, but the location may be adjusted based on field observations during the completion of soil borings SB-35 to SB-39 (see Section 7.1.2.3 for further information).
- Soil samples will be collected approximately every 5 feet during well installation. Shallower samples will be collected to provide additional information regarding lateral and vertical delineation of contamination. Shallow soil samples will also be collected for a broader range of contaminants to re-evaluate surface soil quality with regard to potential impacts of the 2021 Fire. Deeper samples will be collected in the former Pond Area, into the Glacial Till Unit, to verify the prior exceedances in deeper soil at MW-05⁸ and delineate the bottom of contamination. A subset of shallow and deeper soil samples will be analyzed for dioxin/furans to improve the understanding of whether high dioxin/furan concentrations are limited to materials highly impacted by other potential site contaminants.
- One boring (SB-42) will be drilled in the center of the former Pond to determine the thickness of Pond Fill and the presence/absence of the Tidal Flat Unit.
- Soil logging of the deeper borings will characterize the depth to the Till Unit throughout the Pond Area to help evaluate whether the sheet pile wall might fully penetrate the Alluvial Unit.
- One round of groundwater samples will be collected from existing and newly installed wells.

7.1.2 Southwest Property Area

Contaminants exceeding screening levels in this area include PCE, PCBs, metals, TPH, SVOCs (including BEHP), and PAHs. Most borings in this area were limited to shallow depths and prior investigations were not able to access certain areas due to the presence of buildings; however, these buildings were destroyed in the 2021 Fire, improving access for the Phase 2 investigation.

Soil and groundwater data gaps remaining in the Southwest Property Area after the Phase 1 investigation are described below.

7.1.2.1 Soil Data Gaps

Soil data gaps include:

⁸ Based on the high concentrations and sheen observed in shallow soil at MW-05D, the exceedances in deeper soil may be due to carry-down.

- Vertical extent of PCBs soil contamination along the western property line. PCBs have been detected in shallow soil (Figure B.11), and at SS-38 are the highest concentrations detected on the Site (79.8 mg/kg total PCBs), but there are no saturated zone soil data along the Dallas Avenue property line (Figure B.12).
- Vertical extent of soil contamination along T117 property line. Explorations in this area have been limited to shallow hand-auger borings. Exceedances that have not been vertically defined are PCE (Figures B.13 and B.14), PCBs (Figures B.11 and B.12), zinc (Figures B.7 and B.8), Diesel- and Oil-Range TPH (Figures B.17 and B.18), lead, mercury, PCP, and cPAHs (Tables B.1 and B.2 in Appendix B).
- Surface soil quality in this area at locations previously characterized may have been affected by the 2021 Fire.
- The nature and extent of soil contamination beneath former building footprints (including the former A&B building) is unknown, as no samples have been collected here.

7.1.2.2 Groundwater Data Gaps

Groundwater data gaps include:

- Historical groundwater samples from the one well just downgradient of the Southwest Property area (MW-15: screened in the Fill Unit) contained PCBs (Figure B.24), copper (Figure B.21), and alpha-BHC concentrations above screening levels. These groundwater exceedances have not been laterally delineated to the south and west (within the Southwest Property Area). The off property/upgradient contributions to groundwater quality at the southwest corner near HA-01 need further investigation. The impact of high concentrations of PCBs in fill soil near SS-38 along Dallas Ave to Fill Unit shallow groundwater is unknown.
- Vertical extent of groundwater impacts. There are no existing Alluvial Unit groundwater wells in the Southwest Property Area. Further investigation of Alluvial Unit groundwater quality is needed.

7.1.2.3 Proposed Explorations

To fill the data gaps in the Southwest Property Area, the following work will be performed during the Phase 2 investigation, as outlined in Tables 7.1 and 7.2 and on Figure 7.1:

• Five soil borings (SB-35 to SB-39) will be completed to investigate soil beneath the former A&B Barrel building, former marina buildings destroyed in the 2021 fire, and along the south property boundary near HA-01 and HA-02. Three of these borings will target pervious surface areas. Soil sample analysis adjacent to HA-01 and HA-02 will focus on delineating the vertical extent of contamination that was not bounded at HA-01 and HA-02). A broader range of analyses will be included throughout this area due to the lack of prior characterization beneath building footprints. Shallow soil samples from the five new borings will also be analyzed to evaluate surface soil quality in the 2021 Fire Area. Similar to the Pond Area, a subset of shallow and deeper soil samples will be included for dioxin/furan analysis to improve the understanding of whether high dioxin/furan concentrations co-occur with other potential site contaminants.

- One new Fill Unit well (MW-17) will be installed near SS-38 along Dallas Avenue, to evaluate contribution to shallow groundwater from shallow PCB soil impacts and for vertical characterization of PCB soil exceedances.
- One new Alluvial Unit well (MW-18D) and one new Fill Unit well (MW-18) will be installed at the southwest corner of the Site to evaluate flow direction and vertical extent of soil and groundwater impacts near HA-01, and to evaluate upgradient groundwater chemistry in the Fill Unit and Alluvial Unit. Soil sample collection at this location will focus on delineating the vertical and lateral extent of contamination (PCBs, metals, Diesel- and Oil-Range TPH, PCP, and cPAHs that were not vertically bounded at HA-01).
- If field screening conducted during the advancement of soil borings SB-35 to SB-39 indicates a potential discrete point source of contamination, one new Alluvial Unit well will be installed near the boring location with the highest field screening indications of to assess groundwater quality within the Southwest Property Area. Absent field screening indications of contamination at soil borings SB-35 to SB-37, the new Alluvial Unit well will be collocated with Fill Unit well MW-16 at the downgradient edge of the Southwest Property Area bordering the Pond Area and called MW-16D. Due to a lack of data in the Southwest Property Area where buildings were historically present, the location of the alluvial well in this area will be chosen to provide the best potential to observe any impacts to groundwater quality from the Southwest Property Area and evaluate groundwater quality upgradient of the Pond Area.
- One round of groundwater samples will be collected from newly installed wells.

7.1.3 Boat Wash and Historical Manufacturing Building Area

Contaminants exceeding screening levels in this area include PCBs, metals, PAHs, TPH, pesticides, and SVOCs. The highest exceedances were generally located near the east side of the former boat manufacturing building, near the shoreline.

Soil and groundwater data gaps remaining in the Boat Wash and Historical Manufacturing Building Area after the Phase 1 investigation are described below.

7.1.3.1 Soil Data Gaps

Soil data gaps include:

• The lateral extent of soil contamination to the west and south of SB-27 and MW-08. Multiple potential site contaminants exceeded screening levels including PCBs (Figures B.11 and B.12), copper (Figures B.5 and B.6), TBT (Figures B.9 and B.10), chromium, cPAHs (Tables B.1 and B.2 in Appendix B), BEHP (Figure B.3 and B.4), and Diesel- and Oil-Range TPH (Figures B.17 and B.18) in the vadose and saturated zones. No unsaturated soil samples were analyzed at historical boring SB-01, providing uncertainty in delineation of the relatively higher concentrations of TBT and PCBs in surface soil detected at SB-27.

⁹ If field screening indicates potential contamination, field observations and well location will be discussed with Ecology prior to installation.

• The vertical extent of soil contamination along the central shoreline in the vicinity of SB-27, MW-08, SB-01, and/or MW-07. Multiple potential site contaminants exceeded screening levels including PCBs (Figure B.12), TBT (Figure B.10), cPAHs (Tables B.1 and B.2 in Appendix B), BEHP (Figure B.4), and Diesel- and Oil-Range TPH (Figure B.18) at the maximum depths sampled.

7.1.3.2 Groundwater Data Gaps

Groundwater data gaps include:

- Vertical extent of groundwater contamination along central shoreline. PCB (Figure B.24) and pesticides (aldrin [Figure B.19] and alpha-BHC) screening level exceedances in Fill Unit groundwater at MW-08 support the need for additional groundwater data in the Alluvial Unit to understand vertical extent along the shoreline.
- Historical groundwater samples from the Alluvial Unit contained copper concentrations which exceeded screening levels (Figure B.21). There are no existing Alluvial Unit groundwater wells in the Boat Wash and Historical Manufacturing Building Area. Further investigation of Alluvial Unit groundwater quality is needed.

7.1.3.3 Proposed Explorations

To fill the data gaps in the Boat Wash and Historical Manufacturing Building Area, the following work will be performed during the Phase 2 investigation, as outlined in Tables 7.1 and 7.2 and on Figure 7.1:

- One new Alluvial Unit well (MW-08D) will be installed between Fill Unit well MW-08 and SB-27 (the area along the shoreline of highest soil impacts) to evaluate the vertical extent of groundwater and soil impacts, to characterize Alluvial Unit groundwater quality and flow direction at the shoreline, and to provide additional geologic data.
- Two soil borings will be advanced:
 - SB-40 will be installed west of SB-27 for vertical and horizontal delineation of PCBs, chromium, copper, TBT, cPAHs, BEHP, and Diesel- and Oil-Range TPH.
 - SB-41 will be installed south of SB-27 for vertical and horizontal delineation of PCBs, TBT, cPAHs, BEHP, and Diesel- and Oil-Range TPH.
- One round of groundwater samples will be collected from existing and newly installed wells.

7.1.4 Former Service Station Area

Contaminants exceeding screening levels in this area include gasoline-range TPH and related hydrocarbons, and to a lesser extent metals, PAHs, and PCBs. The highest concentrations of gasoline-range TPH were detected in the area of former tanks and fueling islands. In addition, relatively high concentrations of chlorinated VOCs (CVOCs), primarily PCE, were detected in soil and groundwater. This area is downgradient of a former off-Site dry cleaner. The concentrations of VOCs in soil and groundwater represent a potential vapor intrusion concern.

Soil, groundwater, and soil vapor data gaps remaining in the Former Service Station Area after the Phase 1 investigation are described below.

7.1.4.1 Soil Data Gaps

Soil data gaps include:

- The vertical and horizontal extent of soil contamination at MW-13 and SB-31. Multiple service-station related COCs exceeded screening levels including PAHs in the vadose zone (Table B.1 in Appendix B), and gasoline-range TPH (Figure B.16), PAHs and benzene (Table B.2 in Appendix B) in the saturated zone. In addition, potential dry-cleaner related COCs exceeded screening levels including PCE in the vadose zone (Figure B.13), and PCE (Figure B.14), TCE, and vinyl chloride (Table B.2 in Appendix B) in the saturated zone.
- The lateral extent of copper and zinc in vadose zone soil to the north of SB-31 (Figure B.5 and B.7) and mercury and nickel in vadose zone soil to the west of SB-30 (Table B.1 in Appendix B).

7.1.4.2 Groundwater Data Gaps

Groundwater data gaps include:

- Lateral and vertical extent of PCE, copper, and gasoline-range TPH- in Fill Unit groundwater at MW-13. These groundwater exceedances have not been laterally delineated to the north and west (upgradient). There are no Alluvial Unit groundwater wells in the Former Service Station Area to provide vertical delineation.
- Groundwater at MW-13 contains PCE. A former dry cleaner is just upgradient of this well, off Site. Determining whether the dry cleaner is a source of PCE contamination migrating onto the Site represents a data gap. Further evaluation of potential contribution of VOCs from the off-Site dry cleaner is warranted.

7.1.4.3 Soil Vapor Data Gaps

Soil vapor data gaps include:

- CVOC vapor intrusion in the former service station/tire shop building. High concentrations of CVOCs in soil and groundwater indicate a risk of vapor intrusion.
- Potential for petroleum impacts to soil vapor. The former service station/tire shop building is within the vertical separation distance for petroleum vapor intrusion recommended by Ecology. Concentrations of gasoline-range TPH in saturated soil at boring SB-31 indicate a potential vapor intrusion risk.

7.1.4.4. Proposed Explorations

To fill the data gaps in the Former Service Station Area, the following work will be performed during the Phase 2 investigation, as outlined in Tables 7.1 and 7.2 and on Figure 7.1:

• One new Alluvial Unit well (MW-13D) will be installed and collocated with existing Fill Unit well MW-13 to characterize Alluvial Unit groundwater quality and to evaluate potential vertical migration from the Fill Unit to the Alluvial Unit, and to characterize the vertical extent of soil exceedances at nearby SB-31 and

MW-13. The boring will be drilled to approximately 40 feet bgs. Soil samples will be collected from the well boring to characterize the vertical extent of contamination.

- Two new Fill Unit wells (MW-20 and MW-21) will be installed as follows:
 - MW-20 will be installed off Site across Dallas Avenue, west of MW-13 to characterize: Fill Unit groundwater quality on the upgradient (west) side of the Former Service Station; and the lateral characterization of soil exceedances at SB-31, MW-13, and SB-30. These samples will help evaluate any potential contribution of PCE from the former dry cleaner.
 - MW-21 will be installed off Site across Thistle St., north of MW-13 to characterize Fill Unit groundwater quality and to evaluate the extent of gasolinerange TPH, and for lateral characterization of soil exceedances at SB-31, MW-13, and SB-30.
- One soil boring (MW-22) will be drilled downgradient (east) of MW-13 and SB-31. If field observations suggest that this boring is clean, ¹⁰ the boring will be completed as a Fill Unit well. If field observations indicate that this boring is impacted, a well will not be installed at that location. Rather, a step-out boring will be placed further downgradient, and the step-out boring will be completed as a Fill Unit well.
- One round of groundwater samples will be collected from existing and newly installed wells.
- A vapor intrusion investigation will be performed in the former service station/tire shop as follows:
 - Plan and conduct a site visit for chemical inventory and meeting with building tenant before determining where soil gas samples will be collected. The target area for soil gas sampling is shown on Figure 7.1.
 - Collection of two soil gas samples beneath former service station building.
 - Indoor air will be sampled, if necessary, based on soil gas results:
 - o If Phase 2 soil gas results in the vicinity of the former service station/tire shop exceed VI screening levels (adjusted for commercial use), and the chemicals exceeding VI screening levels are not identified as being used or a component of substances used at the business, then indoor air samples will be collected to evaluate this pathway.
 - o If groundwater sampling from Fill Unit wells indicates the potential for groundwater VI screening level exceedances beneath other structures on the SPM Property, then soil gas sampling and/or indoor air sampling will be conducted to evaluate this pathway.

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¹⁰ Field determinations of "clean" vs. "impacted" soil are described in the SAP/QAPP (Appendix C). In general, field observations of heavy sheen, product, or PID readings greater than 15 ppm will be indicators of "impacted" borings.

7.1.5 Boat Maintenance Area

Contaminants exceeding screening levels in this area include PCBs, pesticides, TPH, and metals. Exceedances are generally low and sporadically located across the Boat Maintenance Area.

Soil and groundwater data gaps remaining in the Boat Maintenance Area after the Phase 1 investigation are described below.

7.1.5.1 Soil Data Gaps

Soil data gaps include:

- The concentration of pesticides in soils (vadose and saturated zones), especially around MW-11. One groundwater sample from MW-11 exceeded the screening levels for aldrin (Figure B.19), but the pesticide dataset for soil is limited to only one surface soil sample in the entire Boat Maintenance Area (Figures B.1 and B.2).
- The lateral extent of PCB contamination in vadose and saturated zone soil, to the north of MW-11 (Figures B.11 and B.12).
- The lateral extent of gasoline-, diesel-, and oil-Range TPH, TBT, zinc, and copper soil contamination in vadose zone soil to the north of MW-11 (Figures B.15, B.16, B.9, B.7, and B.5).
- The vertical extent of PCB and VOC contamination near MW-11.

7.1.5.2 Groundwater Data Gaps

Groundwater data gaps include:

- Fill Unit groundwater quality along shoreline. Two of three shoreline wells (MW-09 and MW-10) yielded limited volume at the time of Phase 1 sampling, so there are no PCB, metals, or pesticides groundwater data for these wells. There are PCB (Figure B.11) and copper (Figure B.5) exceedances in vadose zone soil upgradient of these wells, and PCB (Figure B.24), aldrin (Figure B.19) and copper (Figure B.21) exceedances in Fill Unit groundwater to the north of these wells at MW-11.
- The Fill Unit water bearing zone contains PCBs (Figure B.24), aldrin (Figure B.19) and copper concentrations (Figure B.21) above screening levels along the shoreline at MW-11. Groundwater exceedances have not been laterally delineated to the north of MW-11.
- The Fill Unit water bearing zone contains PCE (Figure B.25) concentrations above screening levels along the shoreline at MW-09. These groundwater exceedances have not been laterally delineated to the west (upgradient of shoreline) and it is unknown whether the PCE exceedance in the Fill Unit water bearing zone at MW-09 is connected to the exceedance in Fill Unit water bearing zone at MW-13 in the northwest corner of the Former Service Station area.
- There are no Alluvial Unit groundwater wells in the Boat Maintenance Area. Given PCB, pesticides, and PCE exceedances at MW-11 and/or MW-09, further investigation of Alluvial Unit groundwater quality is needed.

7.1.5.3 Proposed Explorations

To fill the data gaps in the Boat Maintenance Area, the following work will be performed during the Phase 2 investigation, as outlined in Tables 7.1 and 7.2 and on Figure 7.1:

- One Alluvial Unit well (MW-11D) will be installed near MW-11 for spatial distribution, delineation of soil and groundwater contamination, and Alluvial groundwater unit characterization. Based on the sporadic nature of groundwater in the Fill Unit along the shoreline, 11 groundwater delineation in this area will focus on Alluvial Unit groundwater.
- One new Alluvial Unit well (MW-09D) will be installed and collocated with Fill Unit well MW-09. MW-09D will be installed just south of MW-09 to evaluate the vertical extent of groundwater impacts, to characterize Alluvial Unit groundwater quality and flow direction at the shoreline, and to provide additional geologic data. This location was chosen based on the exceedances of PCE and the depressed groundwater elevations observed in the Fill Unit at MW-09.
- One new Alluvial Unit well (MW-19D) and one new Fill Unit well (MW-19) will be installed between MW-13 and MW-09 (near SB-33) to evaluate the potential migration of PCE between these two wells, as well as the vertical and horizontal delineation of TPH and cPAHs identified in shallow soil at SB-33. Groundwater quality in the Fill Unit at MW-12, MW-14, and MW-15 was of similar quality during Phase 1 of the RI; therefore, the location of an Alluvial Unit well within the boat maintenance area was paired with Fill Unit well MW-19 based on spatial distribution (within the interior of the SPM Property) and the greatest potential to assess whether a preferential flowpath exists between MW-13 and MW-09 in both units.
- Five hand augers (HA-03 through HA-07) will be completed throughout the boat maintenance area to evaluate TBT and pesticides in surface soil (0 to 1 foot bgs). Additionally, samples will be collected from 2 to 3 feet bgs at these locations and archived for potential vertical delineation of surface soil samples.
- One round of groundwater samples will be collected from existing and newly installed wells. Groundwater from Fill Unit wells MW-09 and MW-10 will be sampled during sequential higher tide cycles to maximize potential volume. If limited volume is experienced, sampling will be conducted on successive days to obtain enough sample volume for analysis of a full suite of chemicals.
- Soil samples will be collected during well installation to further delineate the lateral and vertical extent of contaminants detected above screening levels in this area (PCBs, pesticides, gasoline-, diesel-, and oil-Range TPH, TBT, zinc, and copper).
- If groundwater sampling from Fill Unit wells indicates the potential for groundwater VI screening level exceedances beneath residential structures on the SPM Property, then soil gas sampling and/or indoor air sampling would be conducted to evaluate this pathway.

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¹¹ Based on the available data, the transitional zone groundwater along the shoreline is present only at higher tidal stages.

7.1.6 Site-Wide Data Needs

The following Site-wide, non-area specific data gaps remain after the Phase 1 investigation:

- Site-wide groundwater flow/tidal response characterization of the Fill and Alluvial Units
- Seasonality of groundwater quality
- Variability in stormwater and catch basin solids concentrations

To fill these data gaps, the following work will be performed during the Phase 2 investigation:

- Installation of ten new Alluvial Unit and seven new Fill Unit monitoring wells, as described in the previous area-specific sections.
- Water level monitoring from all new and existing monitoring wells
- A tidal study will be performed on all wells, including installation of transducers that continuously log head, electrical conductivity (EC), and temperature. A transducer will also be sited in a stilling well in the LDW.
- One round of groundwater sampling will be performed during the dry season and
 will include wells that were previously installed and sampled during the wet season
 in Phase 1. If concentrations in groundwater along the shoreline in the new Alluvial
 Unit wells exceed screening levels, sampling of seeps or porewater downgradient
 of Alluvial Unit wells may be proposed.
- One additional round of stormwater and catch basin solids samples will be collected, at the same locations that were sampled in Phase 1, and analyzed for LDW COCs. Additionally, a sample of StormwaterRx effluent will be collected and analyzed for LDW COCs.

7.2 Summary of Phase 2 Tasks

Phase 2 field investigation activities including exploration objectives, depths, and target analytes, are summarized in Table 7.1 (soil, soil gas, and catch basin solids) and 7.2 (groundwater and stormwater). Figure 7.1 depicts proposed Phase 2 exploration locations.

Details on the methods and protocols for conducting the Phase 2 investigation, including field procedures, specific intervals and analyses for soil sampling including archiving, techniques and quality assurance/quality control procedures to be employed for collecting reliable data, are described in the Phase 2 Sampling and Analysis Plan/Quality Assurance Project Plan (SAP/QAPP; Appendix C). The Site-specific Health and Safety Plan that Aspect field personnel will follow during the Phase 2 data collection work is in Appendix F of the RI Work Plan. RI Work Plan Appendix G presents the Archaeological Monitoring and Inadvertent Discovery Plan providing notification procedures to follow if potential cultural resources or human skeletal remains are discovered during subsurface investigations.

8 Schedule

The schedule for field work will depend on the approval date of this Work Plan Addendum and contractor availability. Table 8.1 presents a summary of the estimated dates for upcoming project milestones in accordance with the AO based on an estimated duration of field work and Ecology reviews. This schedule includes time for one round of archive sample analysis (approximately 6 weeks).

Table 8.1. Project Milestones and Estimated Dates

Milestone	Estimated Date
Final Work Plan Addendum Issued & Approval ¹²	August 26, 2022
Phase 2 Field Work	September 12 to November 1, 2022
Agency Review Draft RI to Ecology (approximately 135* days after validation of data is complete)	July 16, 2023*
Agency Review Draft Final RI to Ecology	October 8, 2023*
Public Comment Period	October 8 to December 18, 2023*
Final RI to Ecology	January 28, 2024*

^{*}RI dates will be re-evaluated after Phase 2 data are received and are subject to change.

Phase 2 field work includes sample collection, analysis, data validation, and submittal of data to EIM. Phase 2 field work will begin within 30 days of RI Work Plan Addendum approval by Ecology, in accordance with the AO.

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¹² Final Work Plan Addendum approval date assumes 28 days for Ecology review of this Draft Work Plan Addendum and 5 days for Ecology review and approval of the Final Work Plan Addendum.

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10 Report Limitations and Guidelines for Use

Work for this project was performed for the Port of Seattle, City of Seattle, and South Park Marina (collectively the Client), and this report was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This report does not represent a legal opinion. No other warranty, expressed or implied, is made.

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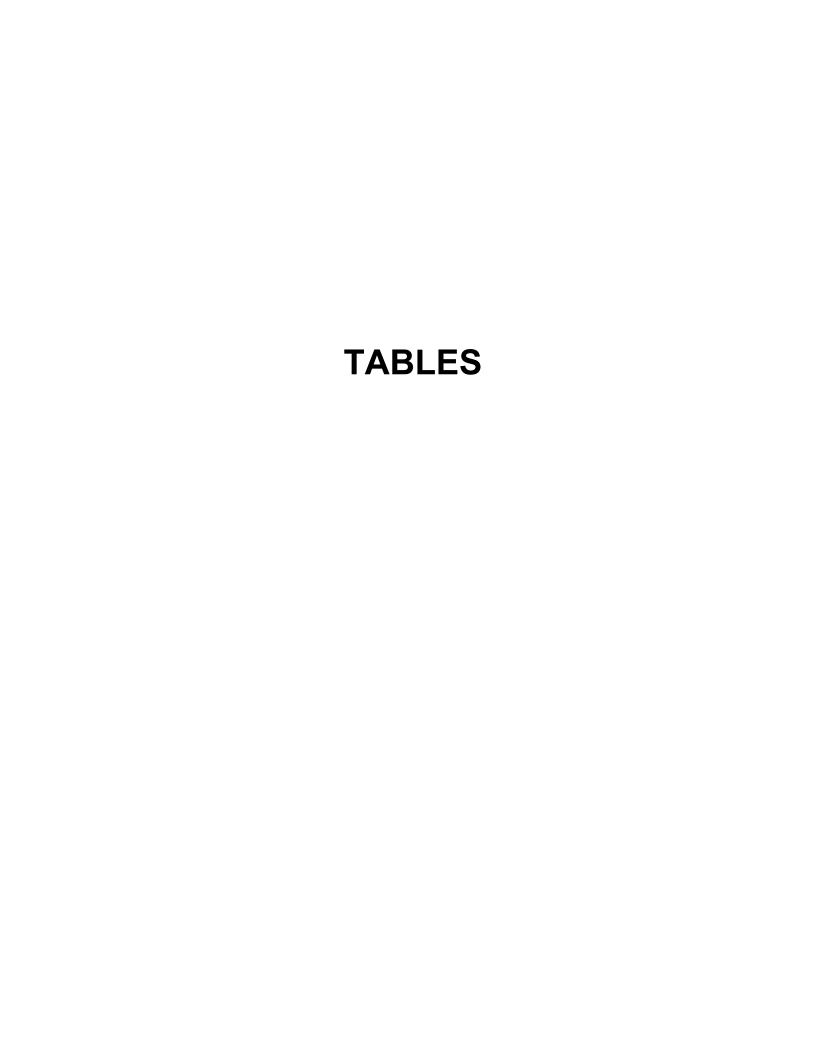


Table 5.1. Summary of RI Screening Level Exceedances Project No. 190293, South Park Marina, Seattle, Washington

			1	1		
	Media:	Groundwater	Vadose Soil (0 6 ft bgs)	Saturated Soil (6+ ft bgs)	Catch Basin Solids	Stormwater
	Arsenic	X (T,D)	Х	X		X (T,D)
	Barium Cadmium		Х	X	X	
	Chromium	X (T)	X	X	X	
Metals	Copper	X (T,D)	Х	Х	X	X (T,D)
Μe	Lead		X	X	X	X (T)
	Mercury	X (T,D)	X	X	X	
	Nickel Silver	X (1,D)	^	X		
	Zinc	X (T,D)	Х	X	Х	X (T,D)
Org. Metals	Tributyltin Ion	(.,=)	X	X		X
_	Total PCB Aroclors (ND=1/2 RL)	Х	X	X	X	Х
	Total PCBs (Sum of Aroclors)	X	X	X	X	X
PCBs	Total PCB Congeners	X	X	X		X
	Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL)	X X	X	X		X
	Total Dioxin/Furan TEQ (ND = 0)	^	X	X		X
Dioxins/Furans	Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL)		X	X		X
	2 Methylnaphthalene		X	X	Х	
	Acenaphthene			Х		
	Anthracene			X		
1	Benz(a)anthracene	X	V	Ų,	X	X
1	Benzo(a)pyrene	X	Х	Х	X	X
	Benzo(b)fluoranthene Benzo(g,h,i)perylene	^		+	X	X
1	Benzo(k)fluoranthene					Х
1	Chrysene				Х	X
<u> </u>	Dibenzo(a,h)anthracene				X	Х
PAHs	Fluoranthene			X	X	
<u> </u>	Fluorene		X	Х	X	
	Indeno(1,2,3 cd)pyrene Naphthalene	X	Х	Х	X X	X
	Phenanthrene		^	X	X	^
	Pyrene			X	X	
	Total Benzofluoranthenes				X	
	Total cPAHs TEQ (ND = 0)		X	X		X
	Total cPAHs TEQ (ND = 1/2 RDL)		Х	Х	.,	X
	Total HPAHs			V	X	
	Total LPAHs 2,4 Dimethylphenol			X	X	
	2,4 Dintetryphenol			X		
	2 Methylphenol		Х			
	4 Methylphenol				X	
	Benzoic acid			X	X	
	Benzyl alcohol		X		X	
ø	Benzyl butyl phthalate	Х	X	X	X	X
8	Bis(2 ethylhexyl) phthalate Dibenzofuran	^	^	X	^	^
Other SVOCs	Diethyl phthalate		Х	X		
je.	Dimethyl phthalate		X	Х	X	
ŧ	Di n butyl phthalate		X		X	
	Hexachlorobenzene			X		
	Hexachlorobutadiene Hexachloroethane		Х	Х		
	Isophorone		X	Х		
	N Nitrosodiphenylamine		X	X		
	Pentachlorophenol		X	Х	X	X
	Phenol				X	
δ	4,4' DDD		X	X		
jë	4,4' DDE 4,4' DDT	X	X	X		
Pesticides/Herbicides	Aldrin	X	X	X		
훈	Alpha BHC	X	, ,	X		
es/i	cis Chlordane			Х		
Ë	Dieldrin	X	Х	X		
šti	Endrin Aldehyde			X		
B _B	Heptachlor	V	~	X		
	trans Chlordane 1,2 Dichlorobenzene	X	X	X X		
	1,3 Dichlorobenzene		^	X		
1	1,4 Dichlorobenzene			X		
1	Benzene		Х	X		
	Bromomethane		^	X		
χ	Ethylbenzene		Х	X		
VOCs	Methylene Chloride		^	X		
	Tetrachloroethene (PCE)	Х	Х	X		
	Toluene	^	X	^		
	Total Xylenes		^	Х		
	Trichloroethene (TCE)	Х	Х	X		
	Vinyl Chloride	X	X	X		
	Gasoline Range Organics	X	X	X		
£	Diesel Range Organics	X	X	X		
TPHS	Motor Oil Range Organics	X	X	Х		Х
<u> </u>	Diesel and Oil Extended Range Organics	Х	Х	Х		X

Notes:

X = screening level was exceeded for one or more detected samples
blank = no detected results exceeded the screening level, analyte was not analyzed, or there is no screening level for the analyte/matrix

Table 7.1. Proposed Phase 2 Field Investigation Sampling Matrix - Soil, Soil Gas, and Catch Basin Solids Project No. 190293, South Park Marina, Seattle, Washington

											Anal	yses			
					Planned									PCBs	
			Proposed	l Eacting /	Exploration Depth ⁽²⁾							Organochlorine		PCBS	Dioxins /
Investigation Area	Exploration	Matrix		hing ⁽¹⁾	(ft bgs)	Objective(s)	Metals ⁽³⁾ TB	т трн	VOCs	SVOCs		Pesticides	Aroclors	Congeners ⁽⁴⁾	Furans ⁽⁵⁾
III Congunon Facu	Lapioration	Induix	Hora	IIIIg	(it bgs/	Assess surface soil to characterize direct contact pathways and characterize changes to surface soil quality from fire and evaluation of D/F.	X X		X	X	X	X	Х		1 urung
	MW-04D	Soil	1275109	195752	30	Vertical delineation of PCB exceedances at MW-04.							х		
						Horizontal delineation of deeper metals, PAHs, pesticides, and PCB exceedances at MW-05.	Х				х	Х	Х		
						Assess surface soil to characterize direct contact pathways and characterize changes to surface soil quality from fire and evaluation of D/F.	x x	Х	Х	Х	х	X	Х		
	MW-05D	Soil	1275104	195776	40	Collect and analyze additional samples in the alluvial/Till layers of MW-05D to confirm previous exceedances in alluvium and Till at MW-05 to rule out	x x			x	×	x	x		
						potential cross contamination issue.			-						
Former A&B Barrel						Assess vertical extent of former pond and vertical delineation of metals, TBT, pesticide, and PCB exceedances at MW-05.	x x					X	Х	One sample	Three samp
Pond Area	1 # 1 4 0 0 D	0.11	1075105	405700	00	Assess surface soil to characterize direct contact pathways and characterize changes to surface soil quality from fire and evaluation of D/F.	x x		Х	Х	Х	X	Х		
	MW-06D	Soil	1275105	195786	30	Vertical delineation of pesticide and VOC exceedances at MW-06. Horizontal delineation of deeper metals, PAHs, pesticides, and PCB exceedances at MW-05.	X X		Х	X		X	X		
	-					Horizontal delineation of deeper metals, PAHS, pesticides, and PCB exceedances at MW-U5. Assess surface soil to characterize direct contact pathways and characterize changes to surface soil quality from fire and evaluation of D/F.	X X	x	x	X	Х	X X	X		
	MW-16 (6)	Soil	1275065	195739	30	Assess surrace son to characterize direct contact partways and characterize changes to surrace son quality from life and evaluation of D/F. Lateral extent of PCB. SVOC, pesticide, and VOC exceedances at SB-26.	X X	X	X	X	X	X X	X		
	SB-42	Soil	1275093	195762	10	Lateral extent of PCB, SVCC, pesticide, and VCC exceedances at S5-20. Assess thickness of Pond Fill; lateral extent of exceedances.	Х	×	X	X	^		^		
		1			10		 ^	 ^				^	1	1	1
	TBD ⁽⁶⁾	Soil	TBD	TBD	30	Nature and extent of contamination beneath former building footprints and in fire area.	x x	х	х	х	х	x	х	—	1
						Nature and extent of contamination beneath former building footprints and in fire area.	x x	Y	х	Х	x		х		
	SB-35 ⁽⁶⁾	Soil	1275048	195686	20	Lateral delineation of metals, TBT, PCB, SVOC, PAHs, TPH, and VOC exceedances at HA-01 and HA-02.	x x		X	X	×		X		
	SB-36 (6)	Soil	1275072	195707	20	Vertical delineation of metals, PCB, TPH, and VOC exceedances at HA-02.	X X		X	X	x		X		
	SB-37 ⁽⁶⁾	Soil	1275035	195708	20	Nature and extent of contamination beneath former building footprints and in fire area.	x x		X	X	Y	x	X		
	SB-38 ⁽⁶⁾	Soil	1275002	195688	20	Nature and extent of contamination beneath former building footprints and in fire area.	x x		X	X	X	X	X		
Southwest Property	SB-39 ⁽⁶⁾	Soil	1275046	195742	20	Nature and extent of contamination beneath former building footprints and in fire area.	X X		X	X	×	X X	X	One sample	Three sampl
Area						Vertical delineation of PCB exceedances at SS-38 and displacement of the state of t	X X		X	X	×	X	X	•	
	MW-17	Soil	1274862	195724	20	Characterize saturated soil conditions on western edge of property, upgradient of groundwater metals, PCB, and pesticide exceedances at MW-15.	x		- ^-	<u> </u>	x	×	X		
						Lateral delineation of metals, TBT, PCB, PAH, SVOC, and TPH exceedances at HA-01.	X X	х	х	х	X		X		
	MW-18	Soil	1275045	195656	15	Characterize saturated soil conditions on upgradient edge of property and near historical results from HA-01.	х х	х	х	х	х	х	Х		
	MW-18D	0-3	4075044	405054	20	Vertical delineation of metals, PCB, PAH, SVOC, and TPH exceedances at HA-01.	х х	Х	х	х	х	Х	Х	1	
	IVIVV-18D	Soil	1275041	195651	30	Confirm top of glacial till in SW property corner.									
Boat Wash and	SB-40	Soil	1274962	195836	20	Lateral delineation of metals, TBT, PCB, SVOC, PAH, and TPH exceedances at SB-27 and MW-08	х х	Х	Х	Х	х	Х	Х		
Historical Boat	SB-41	Soil	1275017	195862	20	Lateral delineation of TBT, PCB, PAH, SVOC, and TPH exceedances at SB-27.	X X	Х	Х	Х	Х	Х	Х	One sample	Two sample
Manufacturing Area	MW-08D	Soil	1274991	195883	20	Vertical delineation of metals, TBT, SVOC, PAH, and TPH exceedances at SB-27 and MW-08.	x x	Х		Х	х	X	Х		
	MW-13D	Soil	1274517	195888	40	Characterize pesticides in vadose zone at upgradient portion of Property.						X			
						Vertical delineation of TPH and VOC exceedances at SB-31 and MW-13.		х	Х						
Former Service	MW-20	Soil	1274521	195851	20	Lateral extent of metals, PCB, PAH, TPH, and VOC exceedances at MW-13 and SB-30, including contribution of VOCs from off-site dry cleaner.	Х	Х	Х		X		Х		Two sample
Station Area	MW-21	Soil	1274482	195911	20	Lateral extent of metals, PCB, PAH, TPH, and VOC exceedances at SB-31.	Х	Х	Х		X		Х		
	MW-22	Soil	1274531	195938	20	Lateral extent of metals, PCB, PAH, TPH, and VOC exceedances at SB-31 and MW-13.	Х	Х	Х		х		Х		
	SG-1, SG-2		TBD	TBD	Sub-slab	Assess CVOC and petroleum vapor intrusion in tire shop/service station.		x (APH)	Х						
	HA-03	Soil	1274816	195828	3	Spatial distribution to assess surface soil quality for TBT and pesticides.	х					X			
	HA-04	Soil	1274680	195850	3	Spatial distribution to assess surface soil quality for TBT and pesticides.	х			ļ		X	ļ		1
	HA-05	Soil	1274822	195977	3	Spatial distribution to assess surface soil quality for TBT and pesticides.	x		_			Х		l	1
	HA-06	Soil	1274713		3	Spatial distribution to assess surface soil quality for TBT and pesticides.	х			1		X			1
	HA-07	Soil	1274684	196116	3	Spatial distribution to assess surface soil quality for TBT and pesticides.	х		1	1		X			1
	MW-09D	Soil	1274884	195979	25	Characterize saturated zone near MW-09 (previously uncharacterized).	x x		Х	Х	Х	X	Х		
Boat Maintenance	MW-11D	Soil	1274618	196226	25	Lateral delineation of metals, TBT, PCB, PAH, SVCC, and TPH exceedances in surface soil at MW-11.	х х		X	Х	X	X	X	0	T
Area						Vertical delineation of PCB and VOC exceedances in at MW-11.		Х	Х		х	X	х	One sample	Two sample
						Assess surface soil to characterize direct contact pathways based on metals, TBT, PCB, PAH, SVOC, and TPH exceedances in surface soil at SB-33 and	x x	х	х	х	x	x	х		1
	MW-19	Soil	1274702	195917	20	SB-34.									
						Assess pesticides in surface soil for previously uncharacterized portion of Property						X			1
			1			Characterize saturated zone soil in central portion of boat maintenance area between SB-33 and SB-34.	x x	Х	х	Х	Х	X	Х	1	1
	MW-19D	Soil	1274703	105005	25	Assess surface soil to characterize direct contact pathways based on metals, TBT, PCB, PAH, SVOC, and TPH exceedances in surface soil at SB-33 and CBP 34. Assess contributes in surface in a life assessment in the surface soil in surface in the surface soil at SB-33 and SB-34 are surface soil in the surface soil at SB-35 and SB-34 are surface soil in the surface soil at SB-35 and SB-34 are surface soil in the surface soil i	x x	х	х	х	х	x	х		1
	IVIVV-19D	Soil	12/4/03	195905	25	SB-34. Assess pesticides in surface soil in previously uncharacterized portion of the property. Characterize saturated zone soil in central portion of boat maintenance area between SB-33 and SB-34.	x x	×	x	х	_	ν.	x	ł	1
	CB-02	Catch Basin Solid	le 127/675	196004		ICHARACIERIZE SATURATED ZONE SOIL IN CENTRAL PORTION OF DOAR TRAINFERNANCE AREA DERIVED 155-33, and SE-34. Assess erotible soil to characterize transport to stormwater-to-surface water sediment pathways, since 2021 fire, and analyze for LDW COCs.	X X	X	X	X X*	X	X	X	I I	X
Catch Basin Solids	CB-02	Catch Basin Solid		195004	-		X*	+	+	x*	X		X	1	X
Catch Dasin Collus		Catch Basin Solid		195957	-	Assess erodible soil to characterize transport to stormwater-to-surface water sediment pathways, since 2021 fire, and analyze for LDW COCs. Assess erodible soil to characterize transport to stormwater-to-surface water sediment pathways, since 2021 fire, and analyze for LDW COCs.	X*	+	+	X*	X		X	1	X
	SWKV-Ple	Caton Dasin Solid	12/0080	190004		passess enounce sum to characterize mansport to stormwater-to-surface water sediment patriways, since 2021 file, and analyze for EDW COCs.	X	1		X	X		X	l	X

- Notes:
 (1) These are approximate locations for planning purposes. Actual soil boring locations will be documented using a hand-held GPS unit during field work. Actual well locations will be surveyed by a licensed surveyor upon completion. Coordinates provided in NAD83 State Plan Washington North, feet.

- (2) Specific targeted depth intervals for sample collection, analysis, and archival can be found in Table C.2 of the SAP(QAP).

 (3) Metals As, Cd, Cu, Cr, Pb, Hg, Ni, Zn. Metals to be analyzed in catchbasin solids samples are As, Cd, Cu, Cr, Pb, Hg, and Zn only.

 (4) One archive sample each from Former Pond Area, Southwest Property Area, Boat Wash Area, and Boat Maintenance Area will be selected for PCB congener analysis will be selected for will be selected from locations based on Site history including historical PCB data. Additional samples may be collected and archived.
- (6) At the Former Pond Area and Southwest Area, three surface so is sample with be selected in a activation in succious in sample with the lowest detected chlorinated PCB concentration, and (3) one subsurface soil sample with the highest chlorinated PCB concentration will be submitted for dioxin/furan analysis. In the remaining three livrestigation Areas, two surface soil samples will be selected in one ach of these two areas for dioxin/furan analysis from the location with the highest chlorinated PCB concentration will be submitted for dioxin/furan analysis. In the remaining three investigation Areas, two surface soil samples with the highest chlorinated PCB concentration will be submitted for dioxin/furan analysis. In the remaining three investigation Areas, two surface soil samples with the highest chlorinated PCB concentration will be submitted for dioxin/furan analysis from the location with the highest chlorinated PCB concentration and (3) one subsurface soil sample with the highest chlorinated PCB concentration and spirit with the former Area and Southwest Area and Southwest Area, three surface soil sample with the highest chlorinated PCB concentration and spirit with the former Area and Southwest Area, three surface soil sample with the highest chlorinated PCB concentration and spirit with the former Area and Southwest Area, three surface soil sample with the highest chlorinated PCB concentration and spirit with the former Area and Southwest Area, three surface soil sample with the highest chlorinated PCB concentration and spirit with the lowest detected chlorinated PCB concentration, and (3) one subsurface soil sample with the highest chlorinated PCB concentration and spirit with the lowest detected chlorinated PCB concentration, and (3) one subsurface soil sample with the highest chlorinated PCB concentration and spirit with the lowest detected chlorinated PCB concentration and spirit with the lowest detected chlorinated PCB concentration and spirit with the highest chlorinated PCB concentration and
- TPH total petroleum hydrocarbons, including gasoline-, diesel-, and oil-ranges
- VOCs volatile organic compounds SVOCs semivolatile organic compounds
- CVOCs chlorinated volatile organic compounds PAHs polycyclic aromatic hydrocarbons
- PCBs polychlorinated biphenyls
- TBT tributyl tin
- APH air-phase hydrocarbons
- See Appendix C for additional details on sampling protocol, procedures, and analytical methods.
- * Metals to be analyzed in catchbasin solids samples are As, Cd, Cu, Cr, Pb, Hg, and Zn. SVOCs to be analyzed in catch basin solids samples are LDW COCs, as listed in Table 4 of the Source Control Review Memorandum (Aspect 2022), only.

V:\190293 South Park Marina\Deliverables\RIWP Addendum\attach\Figs_Tables\T7.1 and T7.2 - Phase 2 Sampling Matrix

Table 7.2. Proposed Phase 2 Field Investigation Sampling Matrix - Groundwater and Stormwater

Project No. 190293, South Park Marina, Seattle, Washington

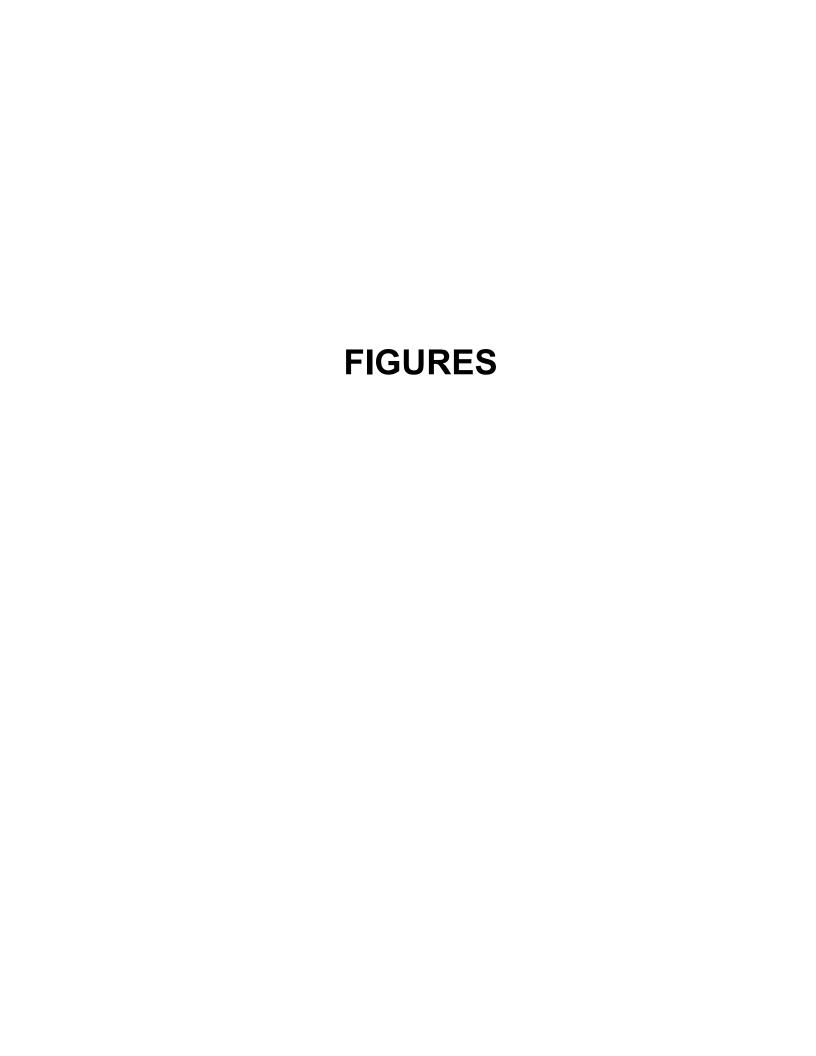
													Analyse	s			
Investigation Area	Exploration	Groundwater Unit	Prope East North	ing /	Planned Exploration Depth (ft bgs)	As-Built or Planned Screen Interval (ft bgs) ⁽²⁾	Objective(s)	Metals ⁽³⁾	Tributyl Tin	ТРН	VOCs	SVOCs	Low-Level	Organochlorine Pesticides	PCBs Aroclors	TSS	Dioxins / Furans
voonganovoa	MW-04	Fill	1275106			6-11	Seasonal variation in groundwater quality, targeting dry season	Х	Х	Х	Х	Х	X	X	Х	X	
	MW-04D	Alluvial	1275109		30	15.5-20.5	Current alluvium groundwater quality, best available detection limits; Groundwater flow around sheetpile wall (collocated with MW-04). Leaching of former pond contamination to groundwater and migration from pond area and groundwater-to-surface water sediment pathway.	х	х	х	х	х	х	х	х	х	
	MW-05	Fill	1275103	195772		4.5-9.5	Seasonal variation in groundwater quality, targeting dry season	Х	х	Х	Х	Х	х	X	Х	Х	х
Former A&B Barrel Pond Area	MW-05D	Alluvial	1275104		40	14-19	Current alluvium groundwater quality, best available detection limits; Groundwater flow around sheetpile wall (collocated with MW-04). Leaching of former pond contamination to groundwater and migration from pond area and groundwater-to-surface water sediment pathway.	х	х	х	х	х	х	x	х	х	
754	MW-06*	Fill	1275103	195787		3.5-8.5	Seasonal variation in groundwater quality, targeting dry season	Х	Х	Х	Х	Х	Х	X	Х	Х	х
	MW-06D*	Alluvial	1275105		30	14-19	Current alluvium groundwater quality, best available detection limits; Groundwater flow around sheetpile wall (collocated with MW-04). Leaching of former pond contamination to groundwater and migration from pond area and groundwater-to-surface water sediment pathway.	х	х	х	х	х	х	x	х	х	
	MW-16	Fill	1275065	195740	20	3.5-8.5	Lateral extent of groundwater contamination upgradient of the Fomer A&B Barrel Pond.	Х	Х	Х	Х	Х	Х	X	Х	Х	
	TBD ⁽⁴⁾	Alluvial	TBD	TBD	30	15-20	Vertical extent of groundwater contamination; lateral extent of groundwater contamination downgradient of Southwest Property Area and upgradient of the Former A&B Barrel Pond.	х	х	х	х	x	х	x	х	x	
Southwest Property Area	MW-17	Fill	1274862	195724	20	6.5-11.5	Groundwater quality in Fill Unit along western property line	Х	Х	Х	Х	Х	Х	X	Х	Х	1
	MW-18	Fill	1275045	195656 195651	15	6.5-11.5	Groundwater quality in Fill Unit at SW property corner	Х	Х	X	Х	Х	Х	X	Х	Х	1
	MW-18D MW-07*	Alluvial Fill	1275041 1275052	195833	30	20-25 4-9	Groundwater quality in Alluvial Unit at SW property corner Seasonal variation in groundwater quality. Resample wells sampled in Phase 1. Target dry season. Assess the groundwater-to-surface water sediment pathway.	x	x	x	x	x	x	x x	x	x	
Boat Wash and Historical Boat Manufacturing Area	MW-08*	Fill	1274977	195901		7-12	Seasonal variation in groundwater quality, targeting dry season	х	х	х	х	х	х	Х	х	х	1
Boat Manufacturing Area	MW-08D*	Alluvial	1274991	195883	20	14-19	Vertical extent of groundwater contamination in Alluvial Unit along shoreline and groundwater-to-surface water sediment pathway.	х	х	х	х	х	х	x	х	х	
	MW-09*	Fill	1274877	195985		4.5-9.5	Seasonal variation in groundwater quality, targeting dry season. Collect sufficient sample volume over potentially multiple tide cycles for analysis of all analyte classes.	х	х	х	х	х	x	х	х	х	
	MW-09D*	Alluvial	1274884	195979	20	14-19	Vertical extent of groundwater contamination in Alluvial Unit along shoreline and groundwater-to-surface water sediment pathway.	х	х	х	х	х	х	x	х	х	
	MW-10*	Fill	1274735	196116		5-10	Seasonal variation in groundwater quality, targeting dry season. Collect sufficient sample volume over potentially multiple tide cycles for analysis of all analyte classes. Seasonal variation in groundwater quality, targeting dry season. Collect sufficient sample volume over potentially	х	х	х	х	х	х	х	х	х	
Boat Maintenance Area	MW-11*	Fill	1274632	196211		5-10	multiple tide cycles for analysis of all analyte classes.	х	х	х	х	х	х	Х	х	х	1
Boat Maintenance Area	MW-11D*	Alluvial Fill	1274618 1274617		25	20-25 7-12	Assess current Alluvial Unit groundwater quality at north end of SPM Property. Seasonal variation in groundwater quality, targeting dry season	x x	х	x	X	x	x	X X	x x	x	
	MW-14	Fill	1274743			10.5-15.5	Seasonal variation in groundwater quality, targeting dry season Seasonal variation in groundwater quality, targeting dry season	X	X	X	X	X	X	X	X	X	í
	MW-15	Fill	1274881	195789		8-13	Seasonal variation in groundwater quality, targeting dry season	Х	х	х	х	х	х	х	х	х	1
	MW-19	Fill	1274702	195917	20	4-9	Fill Unit groundwater quality upgradient of shoreline, between MW-9 and MW-13. Assess potential PCE connection/migration between MW-13 and MW-09.	х	х	х	х	х	х	х	х	х	
	MW-19D	Alluvial	1274703		30	15-20 10-15	Alluvial Unit groundwater quality in the central portion of the Boat Maitenance Area. Assess potential PCE connection/migration between MW-13D and MW-09D.	х	х	х	х	х	х	x	х	х	ļ
	MW-13 MW-13D	Fill Alluvial	1274529 1274517	195882	 40	10-15 23-28	Seasonal variation in groundwater quality, targeting dry season Vertical extent of groundwater contamination	X X	X X	X X	X X	X	X	X X	X X	X X	
Former Service Station	MW-20	Fill	1274521	195851	20	10-15	Vertical extent of groundwater contamination Fill Unit groundwater quality - assess contribution of VOCs from off-site dry cleaner, lateral extent of groundwater contamination	x	x	х	х	x	x	x	x	X	
Area	MW-21	Fill	1274482	195911	20	10-15	Fill Unit groundwater quality - assess contribution of VOCs from off-site dry cleaner, lateral extent of groundwater contamination	х	х	х	х	х	х	х	х	х	
	MW-22	Fill	1274531		20	10-15	Fill Unit groundwater quality - assess contribution of VOCs from off-site dry cleaner, lateral extent of groundwater contamination	x	х	х	х	x	x	x	х	х	
	CB-02 CB-06	-	1274675 1274787	196004 195957		-	Evaluate the stormwater-to-surface water sediment pathway, since 2021 fire, and analyze for LDW COCs.	X** X**				X** X**	X X		X X	X	
Stormwater	SWRX-Pre		1274787	195957	-		Evaluate the stormwater-to-surface water sediment pathway, since 2021 fire, and analyze for LDW COCs. Evaluate the stormwater-to-surface water sediment pathway, since 2021 fire, and analyze for LDW COCs.	X**				X**	X		X	X X	Х
	SWRX-Post		1275061	195805			To demonstrate removal efficiency of the system for LDW COCs.	X**				X**	×		x	X	
	0441VV=L.02[127 300 1	193003	-		TO demonstrate removal emoleticy of the system for LDVV COCs.	^				^	^		^	^	

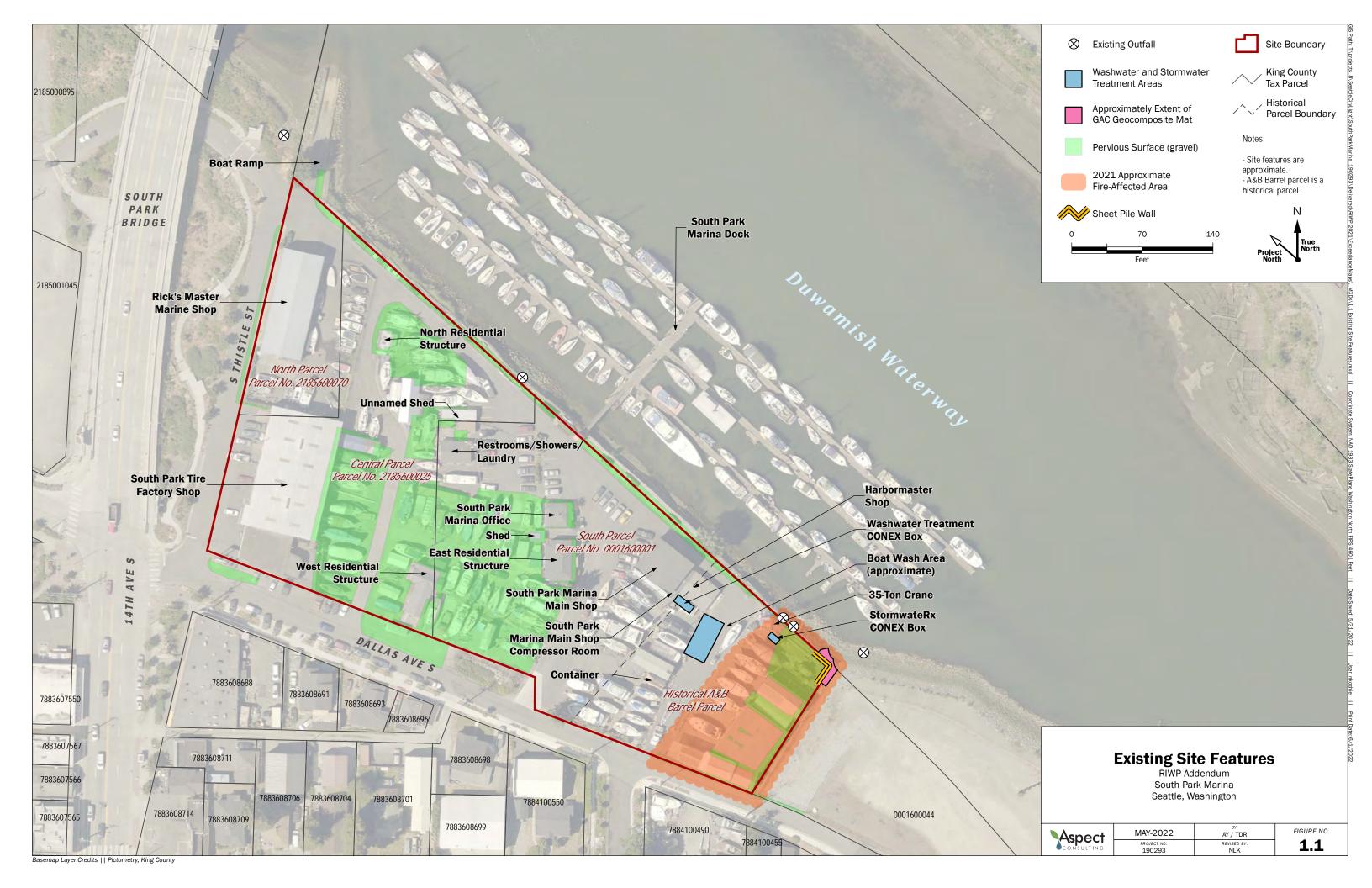
- (1) These are actual locations for existing wells and approximate locations for Phase 2 wells for planning purposes. Actual well locations will be surveyed by a licensed surveyor upon completion. Coordinates provided in NAD83 State Plan Washington North, feet.

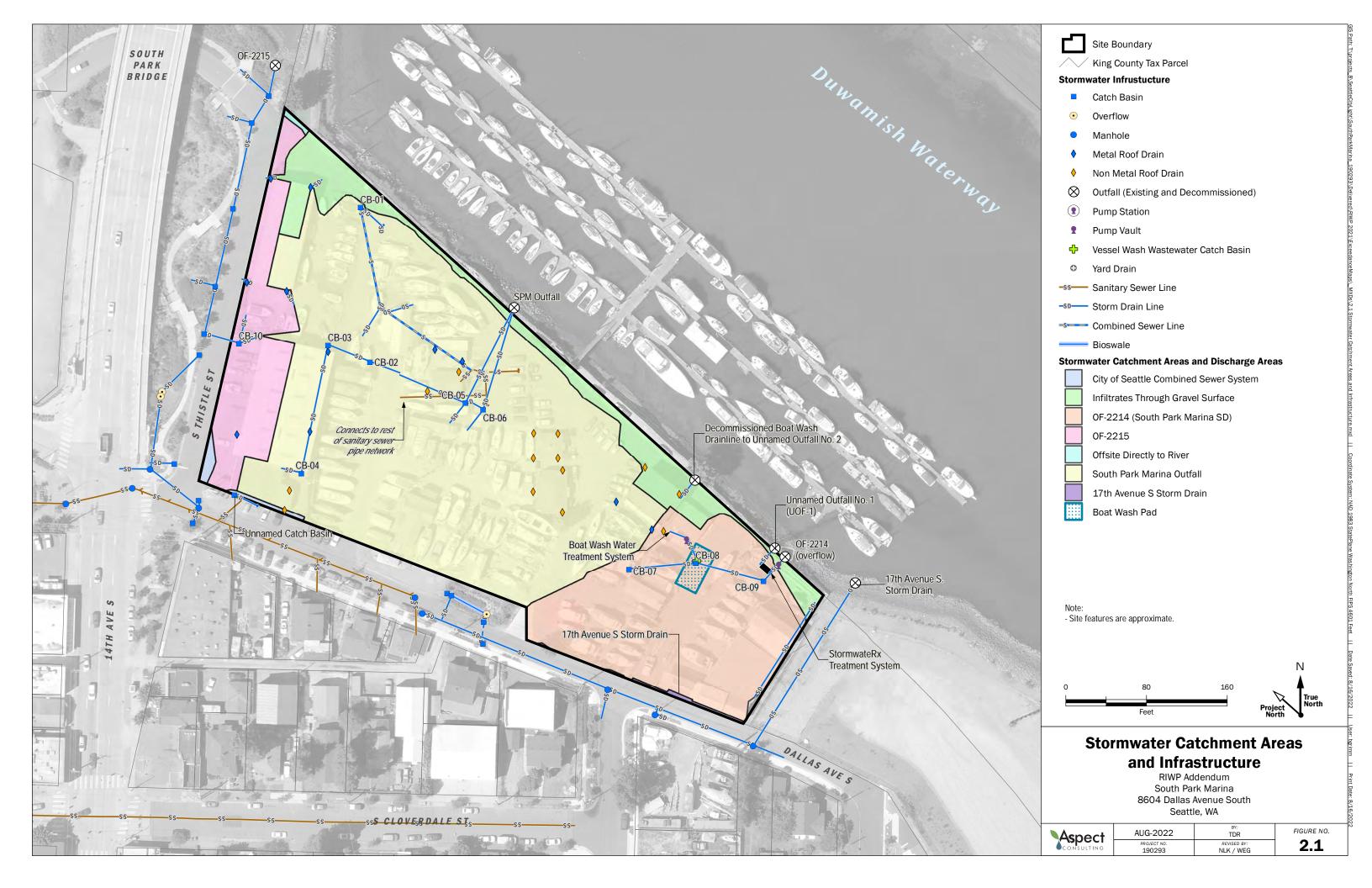
 (2) As-built well screen intervals are listed for existing wells (gray shading). Planned well screen intervals are listed for proposed wells (white), and will be adjusted based on the observed stratigraphic units at the time of drilling. Fill Unit monitoring wells will be screened from 2 to 7 feet below the bottom of the Tidal Flat Unit. Well screen intervals may be adjusted to match well screen intervals for other nearby monitoring wells within the same unit. E.g., the screen at MW-06D may be adjusted downwards greater than 2 feet below the bottom of the Tidal Flat Unit to match the screen interval for MW-05D.
- (3) Metals As, Cd, Cu, Cr, Pb, Hg, Ni, Zn. For groundwater, metals samples will be collected for both total and dissolved concentrations. Metals to be analyzed in stormwater samples are As, Cd, Cu, Cr, Pb, Hg, and Zn only. (4) - If field screening conducted during the advancement of soil borings SB-35 to SB-39 indicates a potential discrete point source of contamination, one new Alluvial Unit well will be installed near the boring location with the highest field screening indications to assess groundwater quality within the Southwest Property Area, and called MW-23D. Absent of field screening indications of contamination at soil borings SB-35 to SB-39, the new Alluvial Unit well (MW-16D) well be installed collocated with Fill Unit well MW-16.

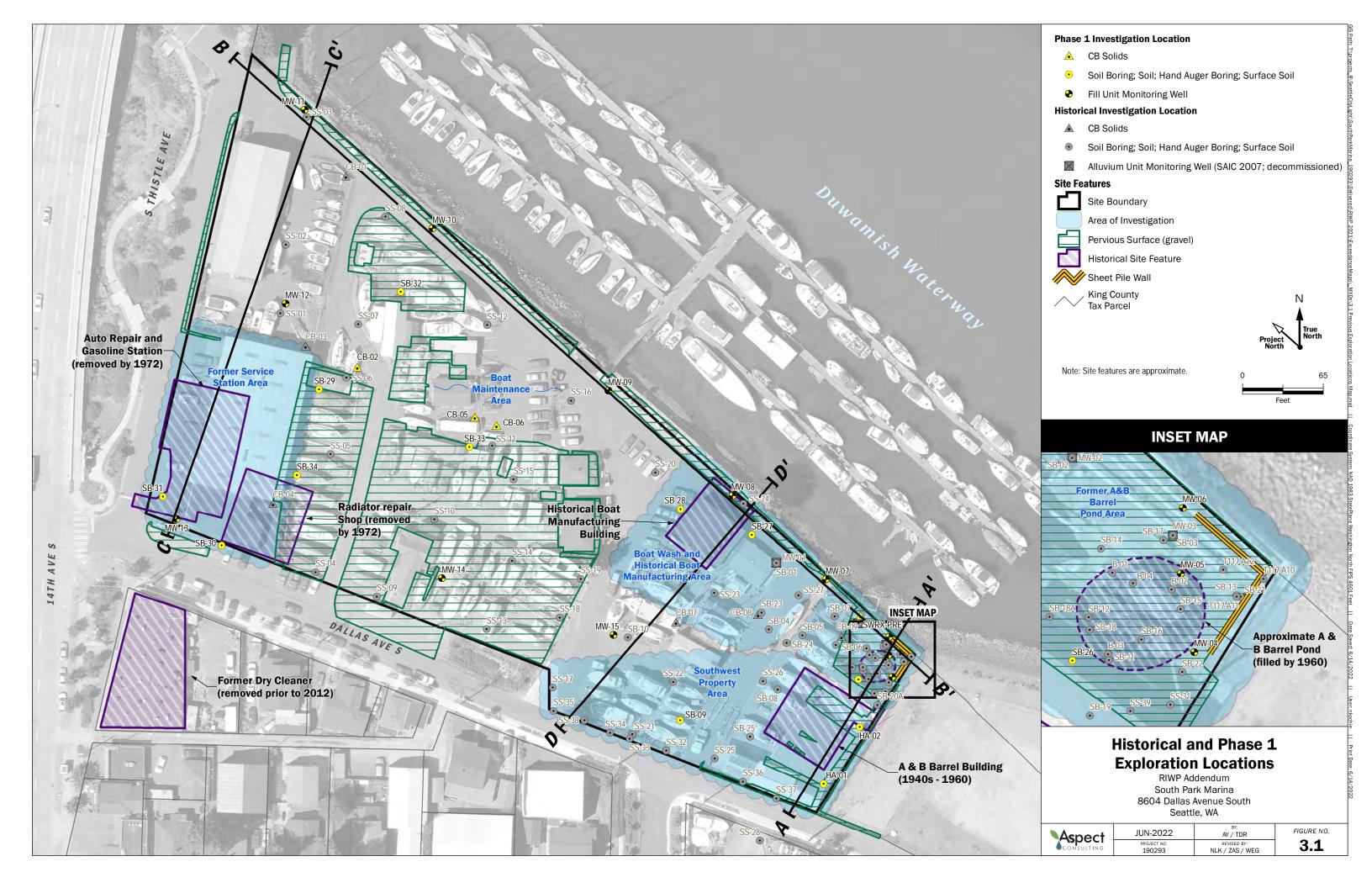
 TPH - total petroleum hydrocarbons, including gasoline-, diesel-, and oil-ranges
- VOCs volatile organic compounds SVOCs semivolatile organic compounds
- CVOCs chlorinated volatile organic compounds PAHs - polycyclic aromatic hydrocarbons
- PCBs polychlorinated biphenyls
- TSS total suspended solids
- One round of groundwater sampling is proposed. See Appendix C for additional details on sampling protocol, procedures, and analytical methods. Gray shading indicates existing monitoring well; other monitoring wells are proposed.

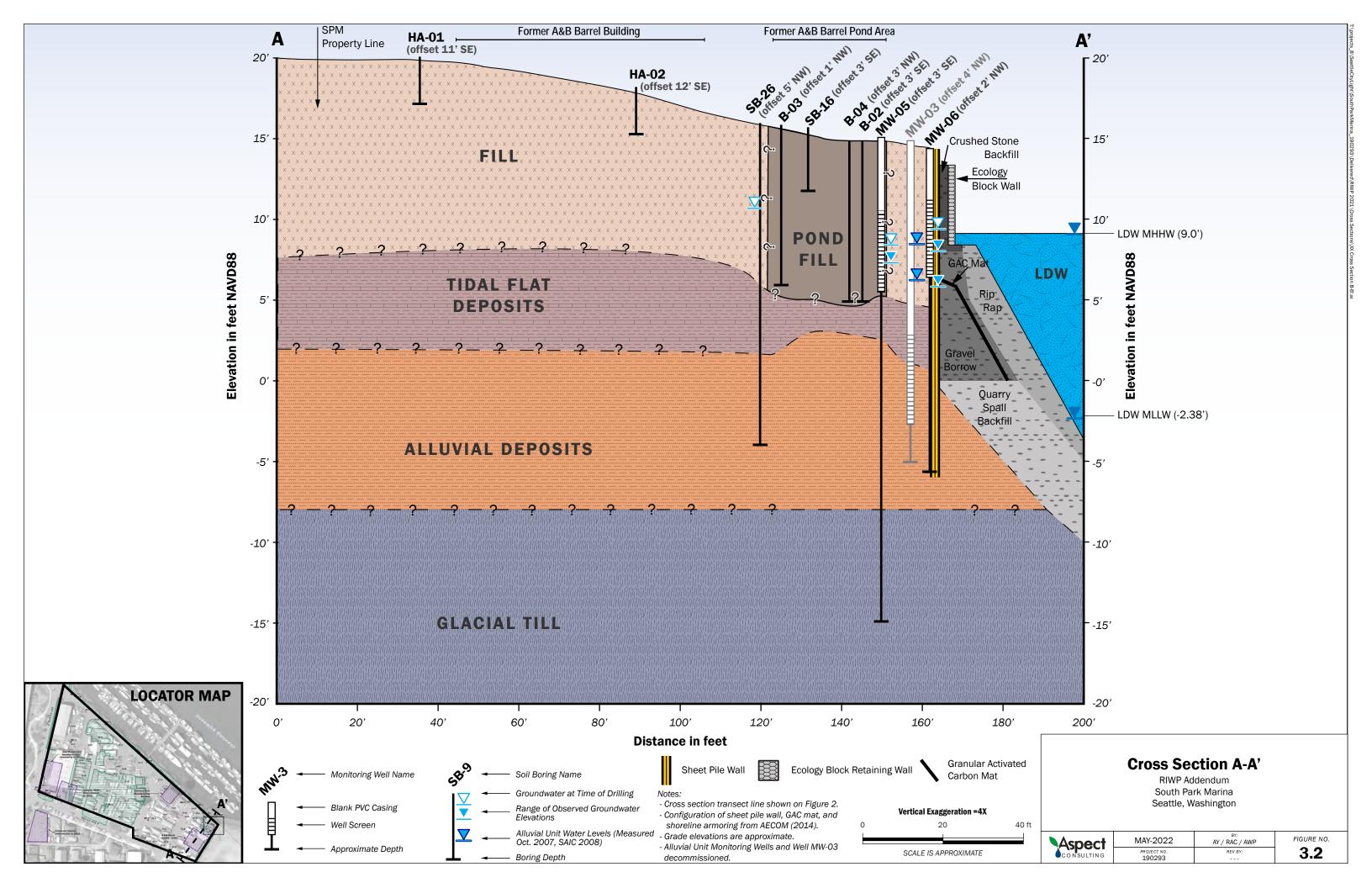
- ** Metals to be analyzed in stormwater samples are As, Cd, Cu, Cr, Pb, Hg, and Zn. SVOCs to be analyzed in stormwater samples are LDW COCs, as listed in Table 4 of the Source Control Review Memorandum (Aspect 2022), only. SWRX-Pre - Vault located downstream from CB-09, from which water is pumped into the StormwateRx system for treatment.

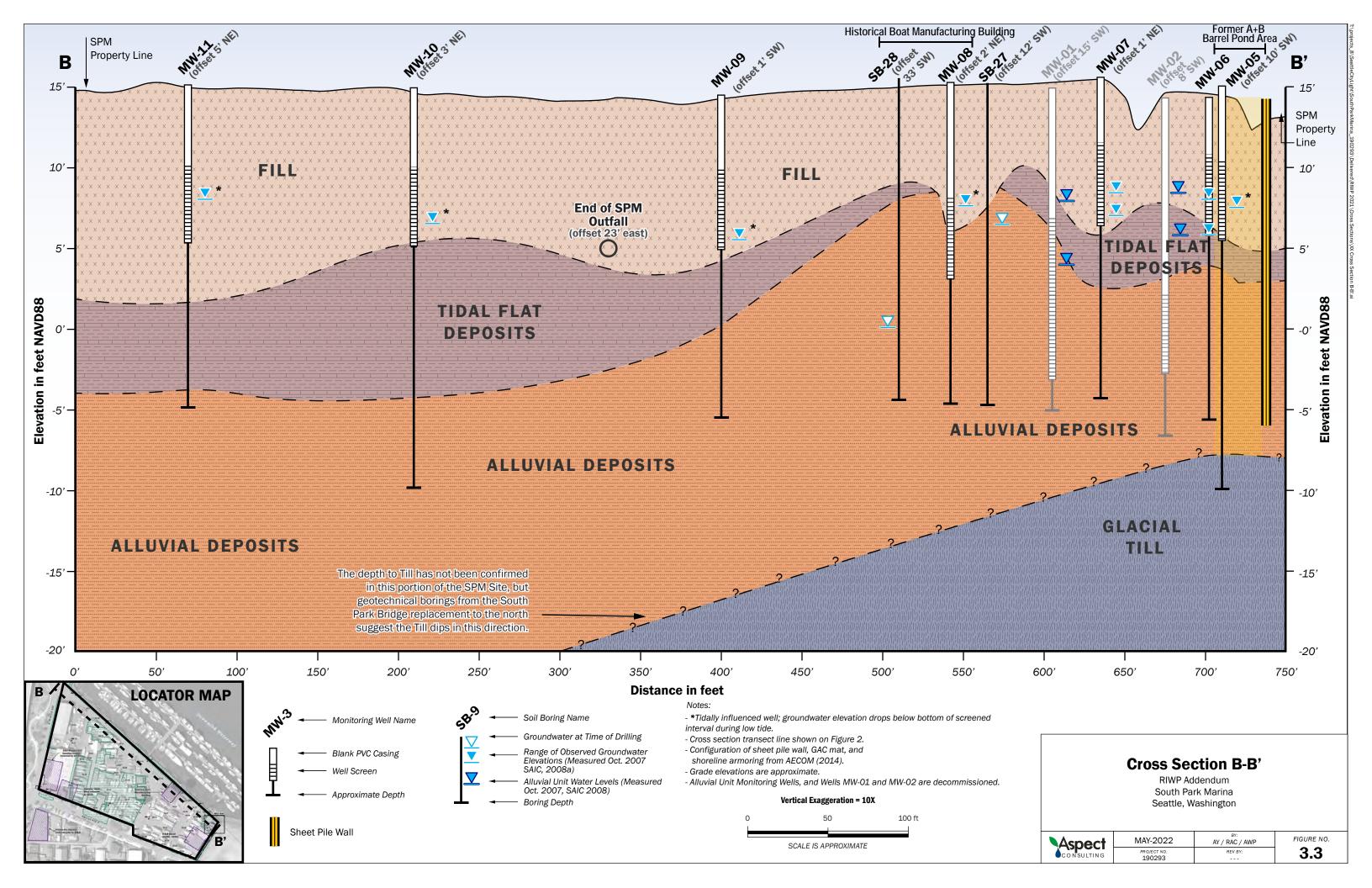


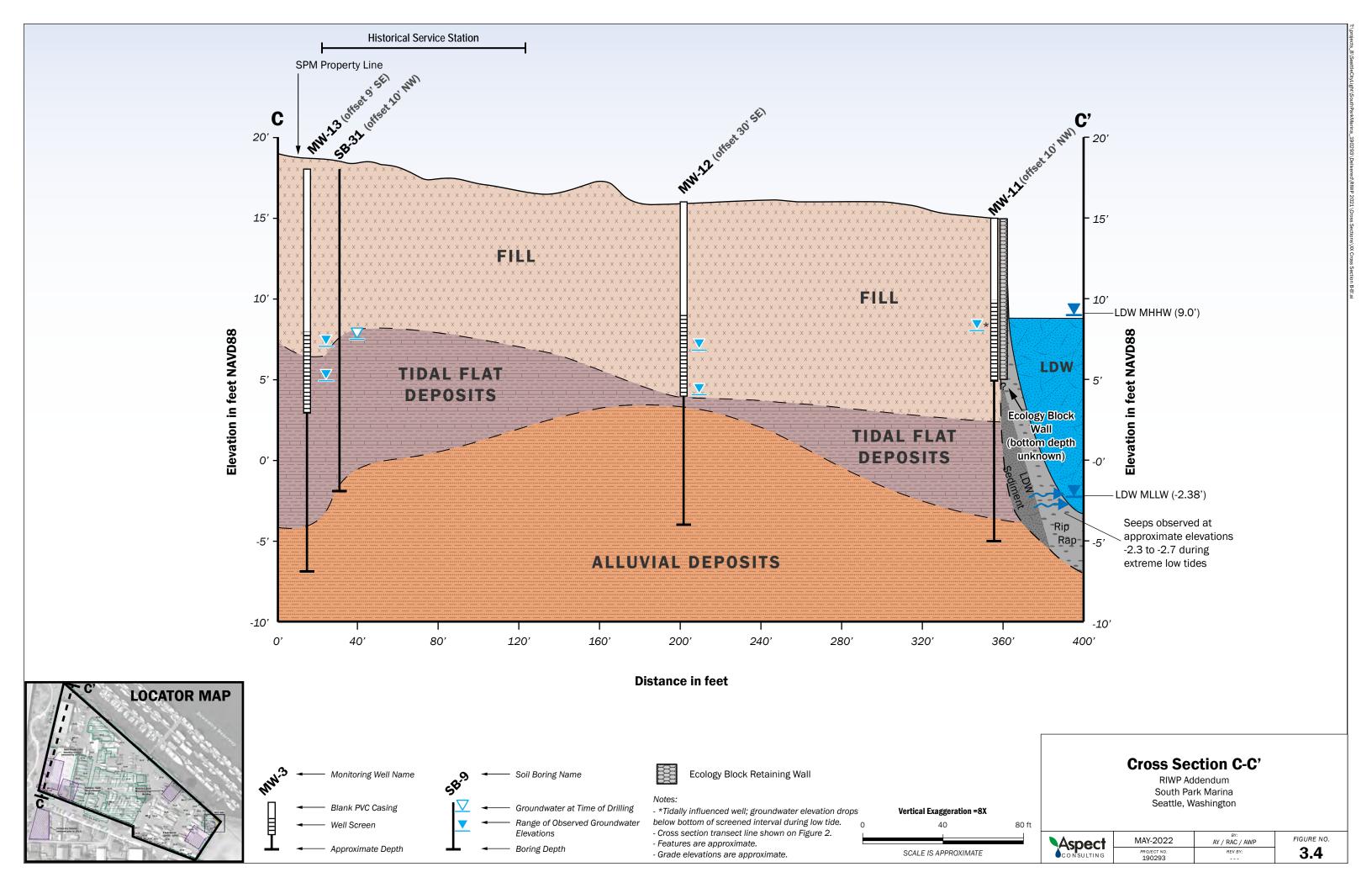


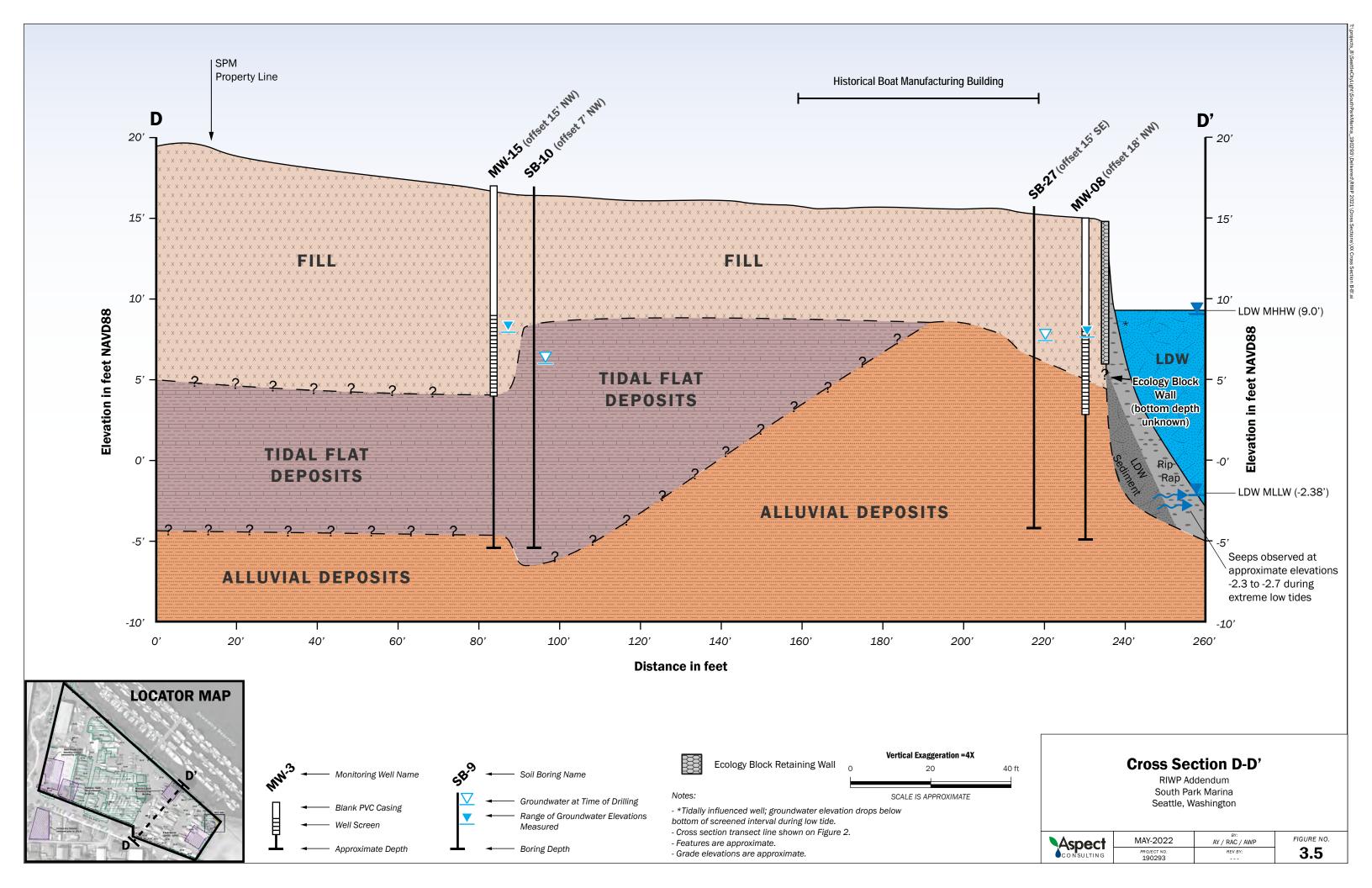


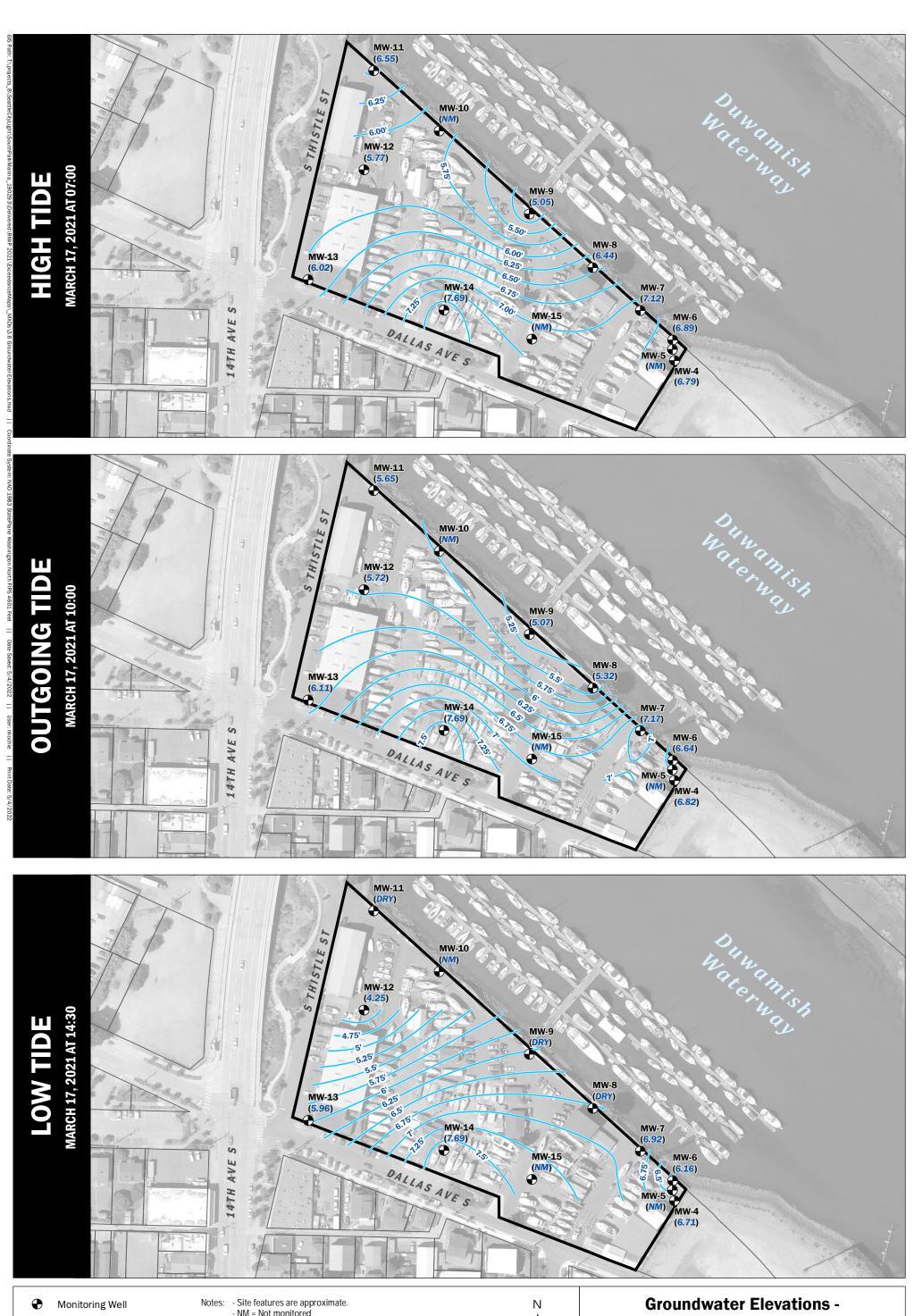


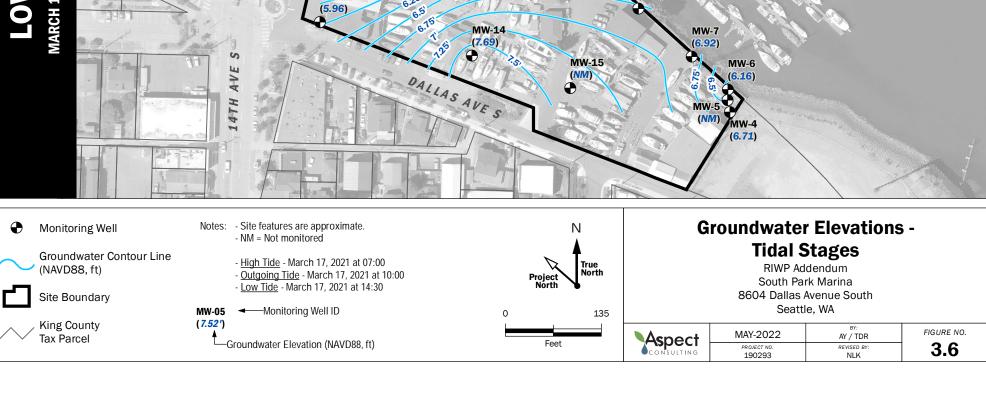


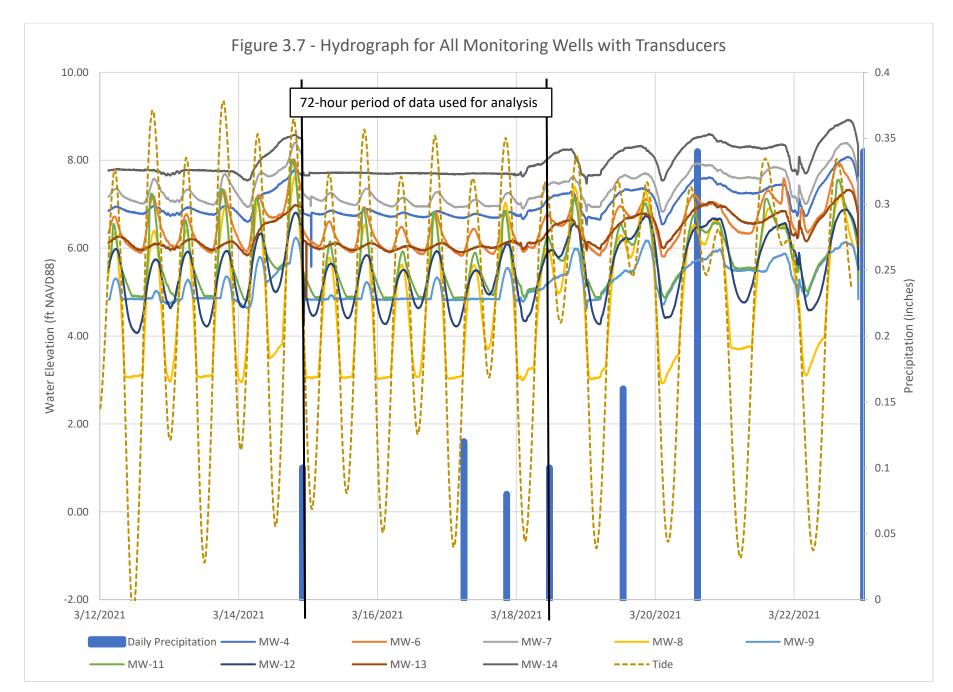


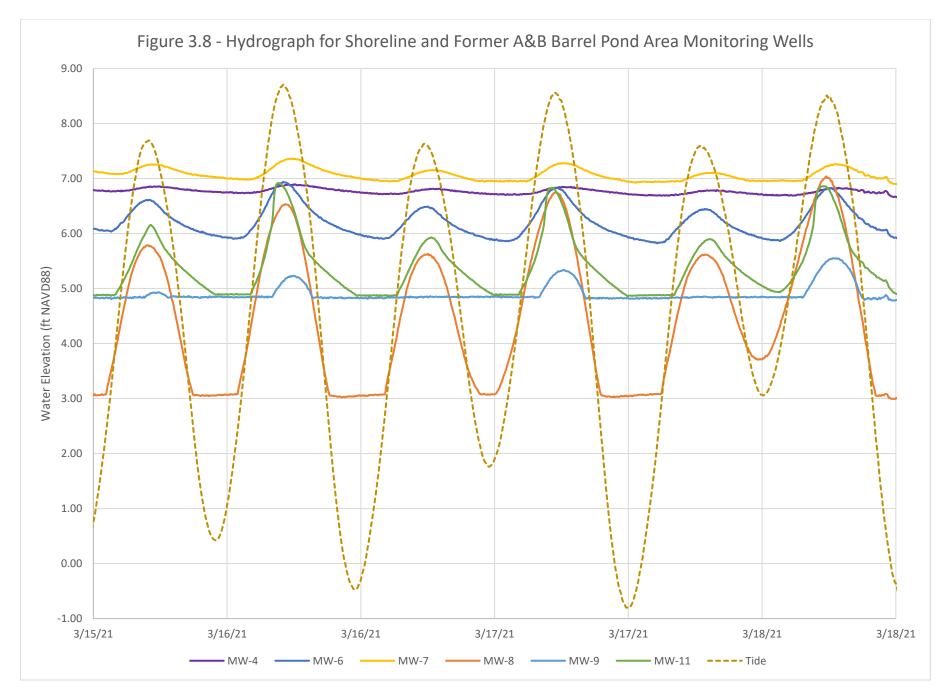


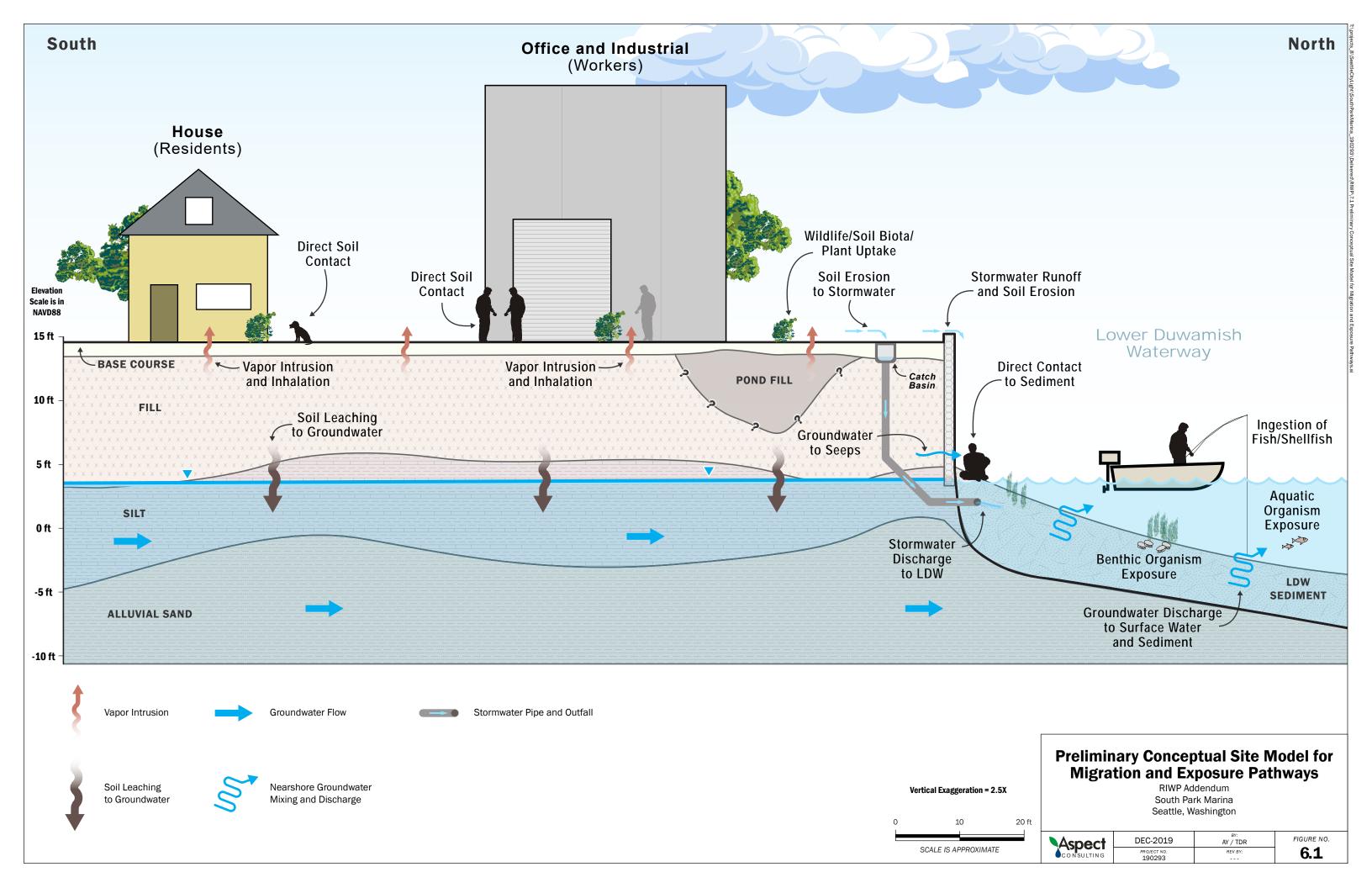


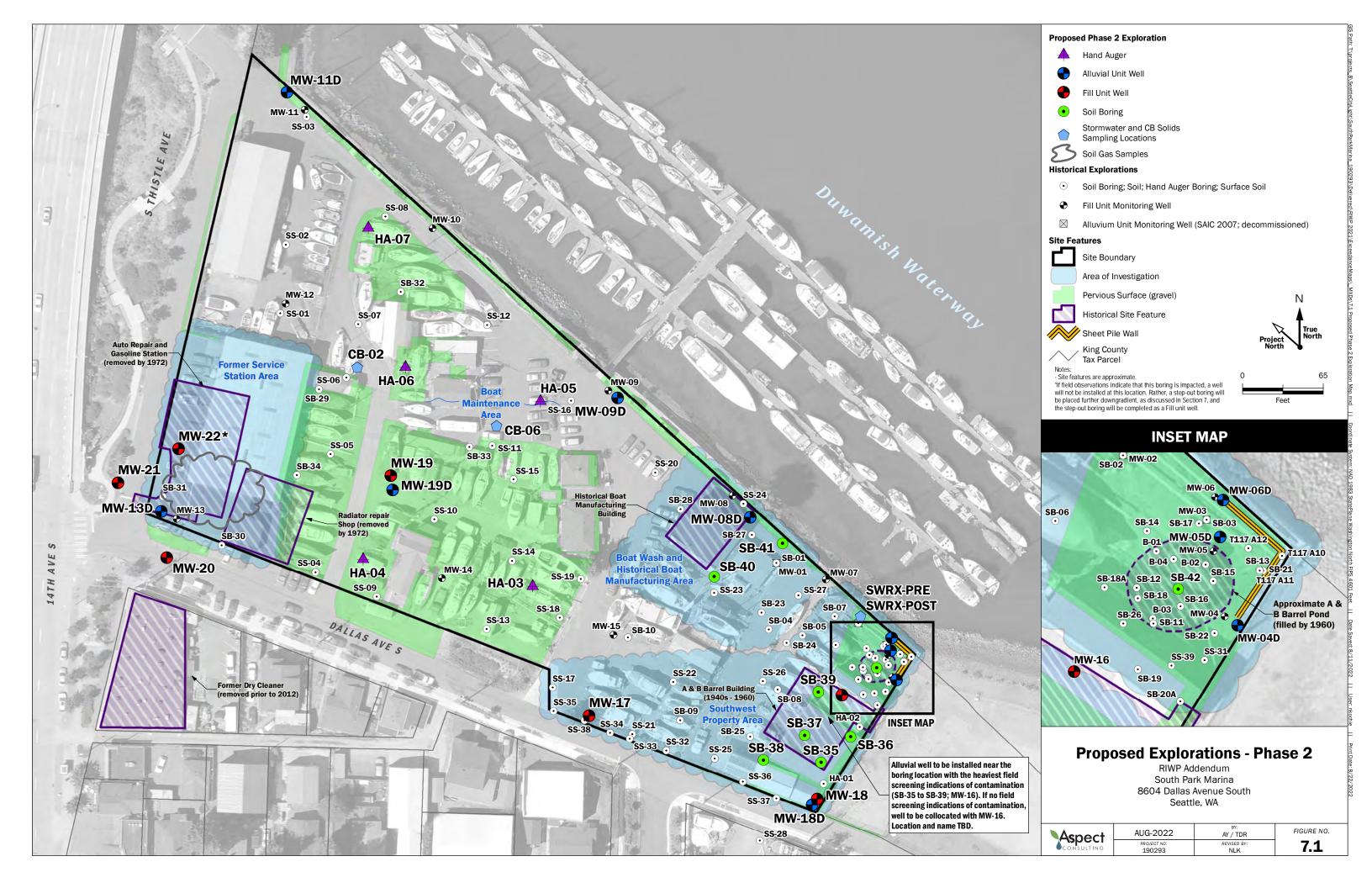












APPENDIX A

Phase 1 RI Boring and Monitoring Well Logs

			10,0,1			
	se Fraction e	≤5% Fines		GW	Well-graded GRAVEL Well-graded GRAVEL WITH SAND	
200 Sieve	$150\%^{1}$ of Coarse on No. 4 Sieve	85≥	000000000000000000000000000000000000000	GP	Poorly-graded GRAVEL Poorly-graded GRAVEL WITH SAND	
Coarse-Grained Soils - More than 50%1 Retained on No. 200 Sieve	Gravels - More than 50%¹ of Coarse Fraction Retained on No. 4 Sieve	≥ 15% Fines		GM	SILTY GRAVEL SILTY GRAVEL WITH SAND	
50%1 Reta	Gravels - P	≥15%		GC	CLAYEY GRAVEL CLAYEY GRAVEL WITH SAND	
- More thar	e Fraction	5% Fines		SW	Well-graded SAND Well-graded SAND WITH GRAVEL	
rained Soils	Sands - $50\%^{1}$ or More of Coarse Fraction Passes No. 4 Sieve	%5≅		SP	Poorly-graded SAND Poorly-graded SAND WITH GRAVEL	
Coarse-Gr	$50\%^{1}$ or More Passes No.	≥15% Fines		SM	SILTY SAND SILTY SAND WITH GRAVEL	
	Sands -	≥15%		SC	CLAYEY SAND CLAYEY SAND WITH GRAVEL	
Sieve	/S And defined	200		ML	SILT SANDY or GRAVELLY SILT SILT WITH SAND SILT WITH GRAVEL	
e Passes No. 200 Sieve	Silts and Clays	ייייור בכפט נוי		CL	LEAN CLAY SANDY or GRAVELLY LEAN CLAY LEAN CLAY WITH SAND LEAN CLAY WITH GRAVEL	
	S - Printer -	בי בי בי		OL	ORGANIC SILT SANDY OR GRAVELLY ORGANIC SILT ORGANIC SILT WITH SAND ORGANIC SILT WITH GRAVEL	
ils - 50%1 or	ays or More			МН	ELASTIC SILT SANDY or GRAVELLY ELASTIC SILT ELASTIC SILT WITH SAND ELASTIC SILT WITH GRAVEL	
Fine-Grained Soils - 50%1 or Mor	Silts and Cle	Silts and Clays Liquid Limit 50% or More	Limit 50% or		СН	FAT CLAY SANDY or GRAVELLY FAT CLAY FAT CLAY WITH SAND FAT CLAY WITH GRAVEL
Fine-	0) 7:	ב ב ב		ОН	ORGANIC CLAY SANDY or GRAVELLY ORGANIC CLAY ORGANIC CLAY WITH SAND ORGANIC CLAY WITH GRAVEL	
Highly	Organic Soils			PT	PEAT and other mostly organic soils	

"WITH SILT" or "WITH CLAY" means 5 to 15% silt and clay, denoted by a "." in the group name; e.g., SP-SM • "SILTY" or "CLAYEY" means >15% silt and clay • "WITH SAND" or "WITH GRAVEL" means 15 to 30% sand and gravel. • "SANDY" or "GRAVELLY" means >0% sand and gravel. • "Well-graded" means approximately equal amounts of fine to coarse grain sizes • "Poorly graded" means unequal amounts of grain sizes • Group names separated by "/" means soil contains layers of the two soil types; e.g., SM/ML.

Soils were described and identified in the field in general accordance with the methods described in ASTM D2488. Where indicated in the log, soils were classified using ASTM D2487 or other laboratory tests as appropriate. Refer to the report accompanying these exploration logs for details.

- Estimated or measured percentage by dry weight
 (SPT) Standard Penetration Test (ASTM D1586)
 Determined by SPT, DCPT (ASTM STP399) or other field methods. See report text for details.

MC PS FC GH AL C Str OC Comp K SG	= = = = = = = = = = = = = = = = = = = =	Particle Fines (Hydror Atterbe Consol Streng Organi Procto Hydrau	neter Test erg Limits lidation Tes th Test c Content (ibution < 0.075 mm t % Loss by Ign			INICAL LAB TESTS
		Organi	ic Chemical	ls		СНЕ	MICAL LAB TESTS
BTEX TPH-DX TPH-G VOCS SVOCS PAHS PCBS RCRA8 MTCA5 PP-13	= = = = = =	Diesel Gasolii Volatile Semi-V Polycy Polych Metals As, Ba As, Cd	and Oil-Rar ne-Range P e Organic C /olatile Orga clic Aromati lorinated Bi , Cd, Cr, Pb, , Cr, Hg, Pb	etroleum Hy ompounds anic Compou c Hydrocarb iphenyls Hg, Se, Ag, (d = dissolve	m H drod inds on ((d =	lydrocarbons carbons compounds dissolved, t = to e = total)	otal) =dissolved, t=total)
PID	=	Photoi	onization D	etector			FIELD TESTS
Sheen SPT ²	=		een Test ard Penetra	tion Tost			
NSPT	=			netration Tes	st		
DCPT	=	Dynam	nic Cone Pe	netration Te	st		
Description Boulders Cobbles Coarse of Fine Gra Coarse of Medium Fine Sar Silt and	Grav Gravel Sand Sand	= el = = d = nd =	Larger tha 3 inches to 3 inches to 3/4 inches No. 4 (4.7 No. 10 (2 No. 40 (0	.00 mm) to I	s 1.75 o. 1 No. 4	mm) 0 (2.00 mm) 40 (0.425 mm) . 200 (0.075 mr	COMPONENT DEFINITIONS
% by We	eight	: Mod	lifier	% by Weigh	nt	Modifier	ESTIMATED ¹
<1 1 to <5 5 to 10	=	Trac		15 to 25 30 to 45 >50	 = = =	Little Some Mostly	PERCENTAGE
Dry Slightly	Mois		Absence of Perceptible		ısty,	dry to the touch	MOISTURE CONTENT

Slightly Moist Perceptible moisture CONTENT

Moist Damp but no visible water Very Moist Water visible but not free draining

Wet Visible free water, usually from below water table

RELATIVE DENSITY Non-Cohesive or Coarse-Grained Soils

Density ³	SPT ² Blows/Foot	Penetration with 1/2" Diameter Rod
Very Loose	= 0 to 4	≥ 2'
Loose	= 5 to 10	1' to 2'
Medium Dense	= 11 to 30	3" to 1'
Dense	= 31 to 50	1" to 3"
Very Dense	= > 50	< 1"

Cohesive or Fine-Grained Soils

CONSISTENCY Manual Test

Consistency³ SPT² Blows/Foot

Penetrated >1" easily by thumb. Extrudes between thumb & fingers. Very Soft = 0 to 1Penetrated 1/4" to 1" easily by thumb. Easily molded. Soft 2 to 4

Medium Stiff = 5 to 8Penetrated >1/4" with effort by thumb. Molded with strong pressure. Stiff = 9 to 15 Indented ~1/4" with effort by thumb.

Very Stiff = 16 to 30 Indented easily by thumbnail. Hard = > 30 Indented with difficulty by thumbnail.

GEOLOGIC CONTACTS

Observed and Distinct

Observed and Gradual

Inferred



Exploration Log Key

	Δ	:ne	C +			uth Park Ma				Environmental Ex	ploration Lo	g
7	<i>\\\\</i>	spe		 8604 Dall	as Avenu	Project Address & Si e South, Seattle, V in SW o	te Specific Location VA 98108 Near T	-117 pro	perty line	Coordinates (SPN NAD83 ft)	Exploration Num	ber
	CO	NS U LT	ING			in SW			porty iii ie	E:1275000 N:195670 (est)	HA-01	
	Co	ontractor			uipment		Sampling Metho			Ground Surface Elev. (NAVD88)	1 17-0 1	l
	A	Aspect		Har	nd Auger		Grab			15' (est)		
		perator			tion Method	I(s)	Work Start/Completion	n Dates		Top of Casing Elev. (NAVD88)	Depth to Water (Beld	ow GS
		, ⁄id Unruł	1		nd tools		3/11/2021			NA	No Water Encour	
\neg						Analytical	3/11/2021	1		I WCI	1.40 VValor Encour	
epth eet)	Elev. (feet)		loration Nompletion	Notes and Details	Sample Type/ID	Sample Number & Lab Test(s)	Field Tests	Material Type	Surface	Description 2: 2 inch gravel base course, 3/4	1" minus	Dep (ft
			Surface surface	restored with soils		HA-1-0-1 *	PID=0.0 Sheen=Slight	000000000000000000000000000000000000000	GRAVE fine to co medium-	FILL L WITH SAND (GP); appears to parse, subrounded gravel; fine-grained, subangular sand; no oless dense than water.	pose, moist, brown,	
1 -	· 14					HA-1-1-2	PID=0.3 Sheen=No sheen	0000	brown, fi	WITH SILT (SP-SM); appears k ne- to medium-grained, subang fines; trace fine, subrounded g	ular sand; low	_ _ 1
2 -	13		Boring t 3/8-in h bentonit 60.	oackfilled with ydrated te chips, NSF		HA-1-2-3 *	PID=0.4 Sheen=No sheen		Become	es very moist		-:
3 -	· 12 ·								Note: * - Remainii	of exploration at 3 ft. bgs. Sample submitted to laboratory or samples preserved and subnoral pending results.	for analysis. nitted to laboratory	- :
4 -	· 11											
ample .ype		jend Split Bar	rel 3" X	2.375"			er Encountered		of symbol		Exploration Log	on
Sample Type						Water			Logged by Approved	y: David Unruh by: AJY	Log HA-01 Sheet 1 of 1	

	Δc	:ne	~ +		30	utii Park ivia	rina - 19029	13		Environmental Ex	pioration Log	g
	_/;	pe	UI	8604 Da	llas Aveni	Project Address & Site ue South, Seattle, V T-117 prop	e Specific Location VA. 98108 Near C	Central no	rtion of	Coordinates (SPN NAD83 ft)	Exploration Number	er
•		NSULT	ING			T-117 prop	erty line			E:1275100 N:195720 (est)	HA-02	
	Co	ntractor		Ēq	uipment		Sampling Metho	d	7	Ground Surface Elev. (NAVD88)	117-02	
	Д	spect		Har	nd Auger		Grab			15' (est)		
	0	perator		Explorat	ion Method	l(s)	Work Start/Completion	Dates		Top of Casing Elev. (NAVD88)	Depth to Water (Below	N GS
	Dav	id Unruh		На	nd tools		3/11/2021			NA	No Water Encount	tere
epth	Elev.		oration No		Sample	Analytical		Material				Dep
et)	(feet)		mpletion I		Type/ID	Sample Number & Lab Test(s)	Field Tests	Type		Description		(ft
	14		Surface I surface s	restored with		HA-2-1-2 HA-2-3 *	PID=0.4 Sheen=Organic PID=0.3 Sheen=Organic		brown, fiffnes; littl WOOD charcoal organic s SAND \ brown, fi plasticity Sheen a	FILL /ITH SILT (SP-SM); appears lone to medium, subangular sande live roots and silt-sized organity DEBRIS; appears loose, mois and wood debris; slight mulch-leads and wood debris and wood debris; slight mulch-leads and wood debris and wood debr	; low plasticity c debris; no odor. st, dark brown, lke odor; blocky bose, moist, dark ar sand; low sheets	1
4	11											
	Leg	end				_		-) F	matian I am IZ confirm a de la		
ט		Split Barr	el 3" X	2.375"			er Encountered		See Explo of symbol	ration Log Key for explanation	Exploratio	'n
Type		-				Water			•	<i>r</i> : David Unruh	Log HA-02	
٦ i `	1											

	Λ	cno	~ +		So	uth Park Ma		3		Monitoring V		
		spe		8604 Dalla	s Avenu	Project Address & Situe South, Seattle, V	/A, 98108, SE corr	ner of sit	e west of	Coordinates (SPN NAD83 ft)	Exploration Numb	ber
_		ONSULT I	NG		ipment	inferred edge of	settling pond Sampling Metho			E:1275100 N:195750 Ground Surface Elev. (NAVD88)	- MW-0∠	1
	C			· ·	•		, 0			, , ,	Ecology Well Tag	g No.
		Holt Operator		Exploration	obe 780		Percussion ham Work Start/Completion			15.23' Top of Casing Elev. (NAVD88)	BND 370 Depth to Water (Belo	W CS)
	,	Cody		,	on Metrio ct push	1(8)	3/4/2021	Dales		15.02'	7.59' (Static)	,
Depth	- Flav		wation N	lotes and	i .	Analytical		Material			7.55 (Gtatio)	Depth
(feet)		Cor	npletion 8-in flus	Details h mount ent set in	Sample Type/ID	Sample Ńumber & Lab Test(s) MW-4-0-1 *	PID=0.9 Sheen=Slight	Type	SAND V	Description 2: 3 inch vegetated gravel base FILL WITH GRAVEL (SP); appears lo wn, fine- to medium-grained, su parse, subangular gravel; trace	oose, moist, ıbangular sand;	/f+\
- - 5 -	-		NSF 60 2-in, thre	e chip seal,		MW-4-4-5	PID=1 Sheen=Slight PID=0.6 Sheen=Moderate		and char chemica SAND medium- Consol	coal fragments <2 inches in siz I-like odor. (SP); appears loose, moist, grey- grained, subangular sand; trace idated fragments of light brown grained sand.	e, very slight y-brown, fine- to e fines; no odor.	- - - - 5
-	10		3/4/20 3/12/2		S2	MW-4-7-8 *	PID=19 Sheen=Heavy		SILTY	SAND (SM); appears loose, we grained, subangular sand; low	t, grey, fine- to	 - - -
- 10- -	5		pack 2-in, pre 0.010-in	lica sand filter epacked (10-slot) schedule 40 reen	S3	MW-4-10.5-11.5 ³	* PID=18 Sheen=Heavy PID=1.6 Sheen=Slight		plasticity iridescer Heavy SILT (M	fines; moderate chemical-like of it sheen. iridescent sheen appears to be TIDAL FLAT DEPOSI IL); appears soft, wet, grey, low to some black organic matter 1-2	odor, heavy denser than water. S to medium	-10
- - 15-	0		Boring b 3/8-in hy bentonit	packfilled with ydrated e chips	S4	MW-4-13.5-14.5 ³	PID=1.0		SAND red-brow slight ch SILTY to mediu some fin	e chemical-like odor. (SP); appears loose, wet, grey-tyn, fine-grained, subangular sandemical-like odor. SAND (SM); appears loose, weigm-grained, subangular sand; lote, subrounded gravel; moderate avy sheen appears to be denser	t, grey-brown, fine- w plasticity fines; e petroleum-like	— — 15
- - -	-				S5	MW-4-18-20 *	PID=1 Sheen=Slight PID=1 Sheen=Very slight		SAND (ALLUVIAL DEPOSITS SP); appears loose, wet, grey-b llar sand; trace fines; slight petro	S rown, fine-grained,	
20-												20
-	-5 -								Note: * - Remaini	of exploration at 20 ft. bgs. Sample submitted to laboratory ng samples preserved and subroval pending results.		
25 - -	-10											- -25
-	-											_
-	_											_
20 25		gend No Soil S Continuo		-		_	/ater Level evel ATD		of symbol	y: David Unruh	Exploration Log MW-04 Sheet 1 of 1	on

	Λ	<u> </u>	201		So	uth P	ark Ma	rina - 19029	3		Monitoring \	Vell Log	
		- '	ect.	8604 Dallas	s Avenu	Project A e South.	Iddress & Site	e <i>Specific Location</i> A. 98108. Inferred	former	east edge	Coordinates (SPN NAD83 ft)	Exploration Numb	ber
_		O NIS U L Contractor			ipment		of settling	A, 98108, Inferred g pond Sampling Metho			E:1275100 N:195770 Ground Surface Elev. (NAVD88)	│ MW-05	5
	,				•	_		. •			, , ,	Ecology Well Tag	g No.
		Holt Operator		Exploration	obe 780		<u>_</u>	Percussion ham Work Start/Completion			14.84' Top of Casing Elev. (NAVD88)	BND 372 Depth to Water (Belo	ow G.S.)
1		Cody		· ·	ct push	3(0)	•	3/5/2021	Datoo		14.5'	6.99' (Static)	,
Depth (feet)	Elev.	. E	xploration Completio	Notes and	Sample Type/ID	Sample	nalytical e Number & o Test(s)	Field Tests	Material Type		Description	, ,	Depth
	<u> </u>			ısh mount			7-5-0-1 *	PID=0.5 Sheen=Slight			e: 3 inch vegetated gravel base FILL		1
-			concre 3/8-in I	hydrated lite chip seal,	18	MW	-5-1-1.5	Grison Gright		grey-bro	WITH GRAVEL (SP); appears to wn, fine- to medium-grained, stoarse, subrounded gravel; trace	ıbangular sand; fines. No odor.	<u> </u>
-	10		schedu casing	readed ule 40 PVC well silica sand filter		MV	V-5-4-5	PID=2 Sheen=Heavy PID=8 Sheen=Heavy		moist, re	SAND WITH GRAVEL (SM); ap ed-brown to grey, fine- to mediu alar sand; low plasticity fines; fin ded gravel; no odor.	m-grained,	
5 -			D-20 spack □ 3/5/2 □ 3/12	2021	82	MW	/-5-6-7 *	PID=26 Sheen=Heavy		medium- chemica	(SP); appears loose, moist, greg- grained, subangular sand; trace I-like odor.	e fines; slight	+ 5 - -
-	†		2-in, pr	repacked in (10-slot) schedule 40		MW-	5-8-9.5 *	PID=34 Sheen=Heavy		moist, da	SAND WITH GRAVEL (SM); ay ark grey, fine- to medium-graine ne, subangular gravel; low plast e chemical-like odor, heavy iride	ed, subangular icity fines;	+
10-	5		PVC s	creen	S3			PID=3 Sheen=Slight		SAND grey, fine fines; mo	(SP); appears loose, very moist e- to medium-grained, subangu oderate chemical-like odor, hea	, red-brown to dark lar sand; trace	10
-	†				S4			PID=3 Sheen=Moderate		SILT (M	ample core. TIDAL FLAT DEPOSI IL); appears soft, very moist, da plasticity; some organic matter;	rk grey, low to	- - -
-	+		3/8-in l	backfilled with hydrated lite chips				PID=0.7 Sheen=Slight		chemica SILTY	I-like odor. SAND (SM); appears loose, we -grained, subangular sand; low	t, grey, fine- to	- -
15 - -	0					MW-	5-15-16 *	PID=9 Sheen=Heavy		plasticity SILT (N	fines; slight chemical-like odor AL); appears soft, wet, dark gre r; slight chemical-like odor.	y, medium	- 15 -
-	_				SS - SS			PID=1 Sheen=No sheen		medium-	ALLUVIAL DEPOSIT SP); appears loose, wet, grey-b grained, subangular sand; trac petroleum-like odor at 15 feet bo	rown, fine- to e fines; no odor.	
20-	-5					MW-5	i-20-22.5 *	PID=2 Sheen=Moderate					-20
-	 				98			PID=1 Sheen=No Sheen		SANDY	GLACIAL TILL SILT WITH GRAVEL (ML); ap	pears stiff, very	<u> </u>
25-	-10							PID=0.8 Sheen=No sheen		moist, gr fine, rou contact;	rey, low plasticity; fine-grained, nded gravel; trace shell fragmen no odor.	subangular sand; nts near upper	- -25
-	† †				S7	MW-5	i-26.5-28 *	PID=2 Sheen=No sheen		SILT (Nodor.	лL); appears stiff; moist, grey; le	ow plasticity; no	†
30-	-15				0								30
-	<u> </u>									Note: * -	of exploration at 30 ft. bgs. Sample submitted to laboratory ng samples preserved and subr		
-	 - -										val pending results.	,	+
ole .				e Recovery		<u> </u>	-	ater Level		See Explo	oration Log Key for explanation	Exploration	on
Sample	<u> </u>	Continu	uous coi	re 3" ID		Water Level	_ vvaler L6	SVGI A I D		Logged b Approved	y: David Unruh I by: AJY	Log MW-05 Sheet 1 of 1	

	A	~ ~			So	uth Park N	Marina - 1902	93		Monitoring V	Vell Log	
		SPE	CT	8604 Dalla	s Avenue	Project Address & South, Seattle	Site Specific Location WA, 98108, N end d settling pond	of sheet (pile wall E	Coordinates (SPN NAD83 ft)	Exploration Num	
_		Contractor	ING	Eat	uipment	of inferred	I settling pond Sampling Metho	od .		E:1275100 N:195790 Ground Surface Elev. (NAVD88)	− MW-0 (6
		Holt			obe 7800		Percussion ham			14.27'	Ecology Well Ta BND 371	ag No.
	(Operator			on Method		Work Start/Completio			Top of Casing Elev. (NAVD88)	Depth to Water (Beld	ow GS)
		Cody		Dire	ct push		3/5/2021			14.22'	7.25' (Statio	;)
Depth (feet)	Elev. (feet)		loration N	Notes and Details	Sample Type/ID	Analytical Sample Number	& Field Tests	Materia Type		Description		Depth (ft)
	10		8-in flus monum concret 3/8-in h bentoni NSF 60 2-in, thr schedul casing 3/5/20 10-20 s pack 2-in, pre 0.010-in	challs ch mount ent set in e chip seal, chip seal,	Type/ID	MW-6-9 * MW-6-9.75	PID=0.2 Sheen=Slight PID=0.3 Sheen=Slight PID=0.3 Sheen=Slight PID=0.3 Sheen=Slight	Type	SANDY plastcity; fine to co brick fraq debris 0- SAND loose, m medium- subangu SAND medium- become SILT (M medium- lsubangu SAND medium- subangu SAND SAND SAND SAND SAND SAND SAND SAND	FILL SILT (ML); appears soft, moist fine- to coarse-grained, subant parse, subangular to subrounder gments; root fragments and silt-0.25 ft; no odor. WITH SILT AND GRAVEL (SPoist, grey-brown, fine- to coarse grained, subangular sand; fine lar gravel; low plasticity fines; no (SP); appears loose, moist, grey-grained, subangular sand; traces wet. TIDAL FLAT DEPOSITIONAL FLAT FLAT DEPOSITIONAL FLAT FLAT DEPOSITIONAL FLAT FLAT FLAT FLAT FLAT FLAT FLAT FL	guar sand; trace d gravel; trace d gravel; trace sized organic SM); appears e-grained, primarily to coarse, o odor. y-brown, fine- to e fines; no odor. TS rk grey, low to l-grained, prown, fine- to e fines; trace wet, dark grey, low	
- - 15- -	0		3/8-in h	packfilled with ydrated te chips	S5 S4		PID=0.5 Sheen=No sheen PID=0.8 Sheen=No sheen PID=0.6 Sheen=No sheen		odor. ORGAI plasticity odor. SAND (medium- ORGAI black, m moderate SAND	r; fine- to medium-grained, subartic sile to medium-grained, subartic sile sile to mostly black organic matter; sile sile sile sile sile sile sile sile	oist, black, low light sulfur-like S rey, fine- to e fines; no odor. oist, dark grey to nic matter; grey, fine- to	- 15
20-	-5					MW-6-18-20	* Sheen=No sheen PID=0.6 Sheen=No sheen		Note: * - Remaini	of exploration at 20 ft. bgs. Sample submitted to laboratory ng samples preserved and subr		20
- 25- - -	-10								ioi archi	val pending results.		-25
Sample		gend No Soil S Continuo		Recovery e 3" ID			c Water Level or Level ATD		of symbol	y: David Unruh	Exploration Log MW-06	

Depth (feet)	C (Contractor Holt Derator Cody Exploration N Completion Monaum concret 3/8-in h bentoni NSF 60	Equination Directors and Details Sh mount ent set in e	ipment obe 7800	Analytical Sample Number & Lab Test(s)	Sampling Methor Percussion hami Work Start/Completion 3/9/2021	d mer	shoreline	Coordinates (SPN NAD83 ft) E:1275100 N:195830 Ground Surface Elev. (NAVD88) 15.2' Top of Casing Elev. (NAVD88)	Exploration Numb WW-07 Ecology Well Tag BND 377 Depth to Water (Below	7 g No.
	C (Elev. (feet) 15	Contractor Holt Departor Cody Exploration N Completion Monum Concret 3/8-in flux monum concret 3/8-in flux monum concret 2-in, thr schedul	Equination Geopre Exploration Direct States and In Details Shimount ent set in equivalent set in equiv	ipment obe 7800 on Method ot push Sample	Analytical Sample Number & Lab Test(s)	Sampling Methor Percussion hami Work Start/Completion 3/9/2021	d mer		Ground Surface Elev. (NAVD88) 15.2'	Ecology Well Tag BND 377	g No.
	Elev. (feet)	Cody Exploration N Completion Monum Concret 3/8-in flux monum concret 3/8-in h bentoni NSF 60	Geopro Exploratio Direct Notes and Details In mount ent set in evolution en	obe 7800 on Methodoct push	Analytical Sample Number & Lab Test(s)	Percussion hami Work Start/Completion 3/9/2021	mer		15.2'	BND 377	
	Elev. (feet)	Cody Exploration N Completion Monum Concret 3/8-in flux monum concret 3/8-in h bentoni NSF 60	Exploration Direct Notes and a Details sh mount eent set in e	on Methodo ct push Sample	Analytical Sample Number & Lab Test(s)	Work Start/Completion 3/9/2021					
	15	Exploration N Completion 8-in flus monum concret 3/8-in h bentoni NSF 60 2-in, thr schedul	Notes and Details The mount ent set in e	Sample	Sample Number & Lab Test(s)						w GS)
	15	8-in flus monum concret 3/8-in h bentoni NSF 60 2-in, thr schedul	sh mount ent set in e	Sample Type/ID	Sample Number & Lab Test(s)				14.69'	7.81' (Static)	,
5 -		monum concret 3/8-in h bentoni NSF 60 2-in, thr	ent set in e vdrated			Field Tests	Material Type	Surface	Description 2: 3 inch asphalt, 8 inch gravel b	Dasa course	Depth (ft)
5 -	10				MW-7-0-1 *	PID=0.7 Sheen=Organic		SAND W fine- to m sand; fine plasticity SAND (medium-	FILL VITH SILT (SP-SM); appears lo nedium-grained, trace coarse-gi e to coarse, subangular to subr fines; no odor. SP); appears loose, moist, bro grained, subangular sand; trace	oose, moist, brown, rained, subangular ounded gravel; low wn, fine- to e fine to coarse,	-
1		pack	ilica sand filter 021 epacked n (10-slot) schedule 40 reen	SS	MW-7-5-6 *	Sheen=Slight PID=0.9 Sheen=No sheen		subangul Become	lar to subrounded gravel; trace	fines; no odor	- 5 5
10-	5			83		PID=0.5 Sheen=No sheen PID=0.7 Sheen=No sheen		fine-grain CLAY V brown, hi	TIDAL FLAT DEPOSIT SILT (ML); appears soft, wet, g ned, subangular sand; no odor. WITH GRAVEL (CH); appears s igh plasticity; fine gravel-sized,	grey, low plasticity; soft, wet, light red-brown particles	- 10
† + +		Boring i 3/8-in h bentoni	backfilled with ydrated te chips			PID=0.7 Sheen=No sheen		SILTY S	lidated sand at bottom contact; SAND (SM); appears loose, welned, subangular sand; medium od debris near bottom contact; s ALLUVIAL DEPOSIT	t, grey, plasticity fines; slight sulfur-like	 - -
15-	0			1 28		Sheen=No sheen		medium-	SP); appears loose, wet, black, grained, subangular sand; trace ecomes majority medium-graine	e fines; no odor.	- -15
+				S5	MW-7-17-19	PID=0.5 Sheen=No sheen PID=0.8 Sheen=No sheen					<u>-</u> -
20-	_										20
	-5							Bottom o	f exploration at 20 ft. bgs.		
								Remainir	Sample submitted to laboratory ng samples preserved and subnal val pending results.		_ _ _
25-	-10										_ -25
†										-	Γ
+										-	+
1											1
†										-	†
Sample Type		gend No Soil Sample Continuous core	-		Static W.	ater Level evel ATD		of symbols	oration Log Key for explanation s y: David Unruh	Exploratio Log MW-07)n

	A			6 1					rina - 19029			Monitoring V		
		Sp		CT	8604 Dal	as Av	<i>Proje</i> enue Sc	ect Address & Sit	e Specific Location NA, 98108, E of b	oat main	itenance	Coordinates (SPN NAD83 ft)	Exploration Num	ber
•		ONS Contrac	U LT I	NG		ipmen		building along	g shoreline [*] Sampling Metho			E:1275000 N:195900 Ground Surface Elev. (NAVD88)	- MW-08	8
		Holt			Geopr	•			Percussion ham			14.95'	Ecology Well Ta BND 375	ıg No.
		Opera			Explorati				Work Start/Completion			Top of Casing Elev. (NAVD88)	Depth to Water (Beld	ow GS)
		Cod	y		Dire	ct pus	h		3/9/2021			14.33'	9.89' (Static	:)
	Elev.			ration No	otes and Details	Samp Type/	ole Sai	Analytical mple Number & Lab Test(s)	Field Tests	Material Type		Description e: 1 foot gravel base course, 3/4	I" minue	Depth (ft)
			NM r	3-in flust nonume concrete	n mount ent set in			//W-8-0-1 *	PID=0.4 Sheen=Slight		SILTY S medium- trace fin	FILL SAND (SM); appears loose, moi -grained, subangular sand; low e, subrounded gravel; no odor.	st, brown, fine- to plasticity fines;	<u></u>
			HQH t	3/8-in hy entonite NSF 60	drated e chip seal,			MW-8-3-5	Sheen=Organic PID=0.6 Sheen=Organic			(SP); appears loose, moist, greg- grained, subangular sand; trace		
5 -	10	***************************************		?-in, thre schedule asing	eaded e 40 PVC well		76		PID=0.6 Sheen=Slight		brown, f	SAND (SM); appears loose, ver ine-grained, subangular sand; k ganic matter; no odor.		<u></u>
-				0-20 sil ack	ica sand filter	0					SAND	(SP); appears loose, moist, brog- grained, subangular sand; trace		
	-			3/9/20			1	ЛW-8-8-9 *	PID=0.8 Sheen=No sheen		grey-bro	WITH SILT (SP-SM); appears lown, fine-grained, subangular sa	oose, wet, and; fines low	
10	5			2-in, pre 0.010-in slotted s PVC scr	(10-slot) chedule 40		20		PID=0.7 Sheen=No sheen		SAND (medium	ALLUVIAL DEPOSIT SP); appears loose, wet, dark g -grained, subangular sand; trace	rey-brown, fine- to	+ 10 - - +
			₹ 3 3	Boring b 8/8-in hy pentonite			40		PID=0.7 Sheen=No sheen		Becom	es brown.		 - -
15 ·	0		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	emonie	е спірь				PID=0.5 Sheen=No sheen		Sand b	ecomes majority medium-graine	ed.	- 15 -
-	† 		XXXXXXXX XX			i.		1W-8-18-20	PID=0.7 Sheen=No sheen PID=0.7 Sheen=No sheen					+
20-	-5										-			
-	ļ											of exploration at 20 ft. bgs. Sample submitted to laboratory	for analysis	1
-											Remaini	ng samples preserved and subr val pending results.		_
	+													-
25	-10													-25 -
-	+													+
-	1													+
														+
Sample 255			Soil Sa	ample s core	Recovery		Water	_	ater Level		of symbol		Exploration Log	on
Sa							\$				Approved	y: David Unruh d by: AJY	MW-08 Sheet 1 of 1	

	۸.	2D.0.6			S			rina - 19029	93		Monitoring V	Vell Log	
7	$oldsymbol{G}$	spec		8604 Dalla	s Ave	<i>Proje</i> nue Soi	uth, Seattle, W	e Specific Location A, 98108, S of do	ck entrai	nce along	Coordinates (SPN NAD83 ft)	Exploration Numb	ber
_		ON SULTIN Contractor	IG		ipmen		shorel	ine Sampling Metho			E:1274900 N:195990 Ground Surface Elev. (NAVD88)	MW-09	9
	·	Holt		Geopre	•			Percussion ham			14.24'	Ecology Well Tag	g No.
	(Operator		Exploration				Work Start/Completion			Top of Casing Elev. (NAVD88)	BND 376 Depth to Water (Belo	ow GS)
		Cody		•	ct pus	. ,		3/9/2021			14.06'	9.76' (Static)	,
Depth (feet)	Elev. (feet)		ition Not eletion D		Sam Type	ole /ID Sa	Analytical mple Number & Lab Test(s)	Field Tests	Material Type		Description 2: 3 inch asphalt, 3 inch gravel k	pase course	Depth (ft)
	-	mic co	SF 60	t set in rated chip seal,		20	MW-9-0-1 * MW-9-3-5	PID=0.6 Sheen=Slight PID=0.9 Sheen=Slight		SAND V brown, fi coarse, s SILTY	FILL VITH GRAVEL (SW); appears I ine- to coarse-grained, subangu subrounded gravel; no odor. SAND (SM); appears loose, mo grained, subangular sand; low I e, subangular gravel; No odor.	oose, moist, light lar sand; fine to ist, brown, fine- to	 - - - -
- 5 - -	- 10 -	sc ca	sing 3/9/2021	40 PVC well		855	MW-9-5-6 *	Sheen=Slight PID=0.8 Sheen=No sheen			/ SILT (ML); appears soft, wet, icty; fine-grained, subangular sae odor.		- - 5
-	- 5	0.0 slo	in, prepa 010-in (1 otted sch /C scree	IO-slot) nedule 40 en				PID=0.7 Sheen=No sheen				70	+
10-	-	3/8	8-in hydi			8		PID=1 Sheen=No sheen		fine-grain	TIDAL FLAT DEPOSIT IL); appears soft, wet, grey, low ned, subangular sand; slight sul SAND (SM); appears loose, wet	plasticity; trace fur-like odor.	10
_	-		entonite (cnips				PID=0.9 Sheen=No sheen		grey-bro slight su SAND\	wn, fine-grained, subangular sa lfur-like odor. ′ SILT (ML); appears soft, wet,	nd; low plasticity; grey, low plasticity	- - -
- 15-	- 0 -					88		PID=0.8 Sheen=No sheen		odor SAND medium-	e-grained, subangular sand; sli (SP); appears loose, wet, grey-b- grained, subangular sand; trace	prown, fine- to	_
_	-							PID=1 Sheen=No sheen			e odor. / SILT (ML); appears soft, wet, ; fine-grained, subangular sand		
-	- - 5					S N	/IW-9-18-20	PID=2 Sheen=No sheen PID=2 Sheen=No sheen		SAND (ALLUVIAL DEPOSIT: SP); appears loose, wet, grey-b- grained, subangular sand; trace e odor.	rown, fine- to	' -
20-													20
-	-									Note: * - Remaini	of exploration at 20 ft. bgs. Sample submitted to laboratory ng samples preserved and submoval pending results.		
- 25-	-10 -												- -25
-	-												
-	- - -15												+
Sample Type	Leç	gend No Soil Sar Continuous		-		Water		ater Level evel ATD		of symbol	oration Log Key for explanation s y: David Unruh	Exploration Log MW-09	on

	Λ	<u> </u>						rina - 19029			Monitoring V	Vell Log	
		SPE	CT	8604 Dalla	as Aveni	<i>Projec</i> ue Sou	<i>t Address & Site</i> th, Seattle, W	Specific Location (A, 98108, 150 ft I	N of MW	/-9 along	Coordinates (SPN NAD83 ft)	Exploration Num	
		Contractor			uipment		shorel	ine Sampling Metho			E:1274700 N:196120 Ground Surface Elev. (NAVD88)	⊢ MW-1 (0
		Holt			obe 780	0		Percussion ham			14.69'	Ecology Well Ta BND 374	ıg No.
		Operator		Exploration			V	Vork Start/Completion			Top of Casing Elev. (NAVD88)	Depth to Water (Beld	ow GS)
		Cody		Dire	ct push			3/8/2021			14.54'	8' (Static)	
Depth (feet)	Elev.		ploration N Completion		Sample Type/ID	Sam	Analytical ple Number & ab Test(s)	Field Tests	Material Type		Description e; 3 inch asphalt, 3 inch gravel I	oase course	Depth (ft)
-	_		monum concret 3/8-in h	sh mount ent set in e ydrated te chip seal,	S1		V-10-0-1 * W-10-3-5	PID=0.7 Sheen=Slight PID=0.7 Sheen=Slight PID=0.8		SAND V grey-bro trace fin	FILL WITH SILT (SP-SM); appears lown, fine-grained, subangular saeto coarse, subangular gravel; ts; no odor.	ose, moist, nd; low plasticity;	
- 5 - - -	10	***************************************	casing 3/8/20 10-20 s pack	D21 sand filter	82	MW-	.10-5.5-6.5 *	Sheen=Slight PID=0.7 Sheen=Slight		grey-bro fine to co odor. SAND	SAND WITH GRAVEL (SM); ap wn, fine- to medium-grained, st parse, subangular gravel; low pl WITH SILT (SP-SM); appears low wn, fine-grained, subangular sa prodor.	bangular sand; asticity fines; no	5
-	5		2-in, pre 0.010-ir slotted PVC so	epacked n (10-slot) schedule 40	83			PID=0.7 Sheen=No sheen		SII TV	SAND (SM); appears loose, we	t arev-brown	+ - - 10
-								PID=0.8 Sheen=No sheen		fine-grai odor.	ned, subangular sand; medium TIDAL FLAT DEPOST	plasticity fines; no	
-	_				88			PID=0.7 Sheen=No sheen		plasticity SAND	ITH SAND (ML); appears soft, v r; fine-grained, subangular sand WITH SILT (SP-SM); appears l ned, subangular sand; low plast	; no odor. oose, wet, brown,	
15-	0		3/8-in h	backfilled with ydrated te chips				PID=1 Sheen=No sheen		SAND\ fine-grai	Y SILT (ML); appears soft, wet, ned, subangular sand; no odor.	grey, low plasticity;	- - 15
_					S5			PID=0.8 Sheen=No sheen			SAND (SM); appears loose, we ne-grained, subangular sand; lo		
-	-5							PID=0.6 Sheen=No sheen					+
20-								PID=0.8 Sheen=No sheen		SAND	ALLUVIAL DEPOSIT		-20
-	_				98	MW	V-10-23-25	PID=1			grained, subangular sand; trace		+
25-	-10							Sheen=No sheen					25
										Bottom o	of exploration at 25 ft. bgs.		20
-	† -									Remaini	Sample submitted to laboratory ng samples preserved and subr val pending results.		
-	-15 Le :	gend											
20-				Recovery e 3" ID		Water Level	▼ Static Water Le	ater Level evel ATD		of symbol	y: David Unruh	Exploration Log MW-10 Sheet 1 of 1	

•	A	000	_1					rina - 19029				### Company of the content of the co	
		SPE	CT	8604 Da	llas Aver	Project A	ddress & Sit h, Seattle,	te Specific Location WA, 98108, S of b	oat ram	p along	Coordinates (SPN NAD83 ft)	'	
<u> </u>		Contractor	NG		uipment		shore	Ine Sampling Metho			Ground Surface Elev. (NAVD88)	- MW-1	1
		Holt		Geopr	obe 7800	0		Percussion ham			14.74'		ag No.
	(Operator			on Method			Work Start/Completion			Top of Casing Elev. (NAVD88)		low GS)
		Cody		Dire	ct push			3/8/2021			14.61'	9.14' (Statio	c)
	Elev. (feet)		oration No		Sample Type/ID	Sample Lab	alytical Number & Test(s)	Field Tests	Material Type	Surface		4" minus	
- - - 5 -	10		NSF 60 2-in, thre schedule casing 10-20 sil pack	drated e chip seal, eaded 4 0 PVC well ica sand filter packed (10-slot) chedule 40 een	S2 S1	MW	11-0-1 * -11-3-5 11-6-7 *	PID=0.3 Sheen=Slight PID=0.6 Sheen=Very slight PID=0.5 Sheen=No sheen PID=0.6 Sheen=No sheen		SAND Verification of the sand; fir trace fin slLTY moist, be coarse, no odor.	WITH GRAVEL (SW); appears ark brown, fine- to coarse-grainule to coarse, subangular to subres; no odor. SAND WITH GRAVEL (SM); arown fine- to medium-grained, subangular gravel; low to medium-grained, subangular sand; low plast	ed, subangular counded gravel; opears loose, subangular sand; im plasticity fines; ost, brown, ticity fines; no odor.	-
10-	5		∑ 3/12/20	021				PID=0.9 Sheen=No sheen PID=0.6 Sheen=No sheen		SAND SAND	r; fine-grained, subangular sand (SP); appears loose, wet, grey- grained, subangular sand; trace (SILT (ML); appears soft, wet,	orown, fine- to e fines; no odor.	
- 15 - -	0	1 12252	Boring b 3/8-in hy bentonite	ackfilled with drated e chips	S4			PID=0.7 Sheen=No sheen PID=0.5 Sheen=No sheen		fine-grai odor. SANDY plasticity	ned, subangular sand; medium TIDAL FLAT DEPOSI SILT (ML); appears soft, wet, g	plasticity fines; no TS grey, medium	-15
20 - -	-5				\$2 	MW-1	11-18-20	PID=0.5 Sheen=No sheen		Bottom of Remaini	SP); appears loose, wet, black, grained, subangular sand; trace of exploration at 20 ft. bgs. Sample submitted to laboratory	fine- to e fines; no odor.	+
- 25 - - -	-10									3.3.1	,		-25
Sample		gend No Soil S Continuo		-		Water Level ∴ ∴		/ater Level evel ATD		of symbo	y: David Unruh	Exploration Log MW-11 Sheet 1 of 1	

	<u> </u>									Monitoring V	Vell Log	
		Sp	ECT	8604 Dallas	s Avenue	Project Address South, Seattle	& Site Specific Location e, WA, 98108, E of E	wall of Ti	re Factory	Coordinates (SPN NAD83 ft)	Exploration Num	
		Contract			uipment		Sampling Meth			E:1274600 N:196060 Ground Surface Elev. (NAVD88)	− MW-1 2	2
		Holt		1	obe 7800	0	Percussion han			15.72'	Ecology Well Ta BND 369	ag No.
		Operato	r		on Method		Work Start/Completion	n Dates		Top of Casing Elev. (NAVD88)	Depth to Water (Beld	ow GS)
		Cody		Dire	ct push		3/3/2021			15.4'	9.27' (Static	:)
Depth (feet)	Elev (feet	/. E)	Exploration Completio	Notes and n Details	Sample Type/ID	Analytical Sample Numbe Lab Test(s)	r & Field Tests	Material Type		Description		Depth (ft)
5	15 10 10 -5		8-in flum monum concretion and serious an	n Details sh mount ment set in te nydrated ite chip seal, 0 readed ale 40 PVC well silica sand filter repacked in (10-slot) schedule 40 creen	Type/ID		* PID=0.9 Sheen=Slight PID=1 Sheen=Slight PID=2 Sheen=Slight PID=1 Sheen=Slight PID=1 Sheen=Slight PID=1 Sheen=No sheer PID=2 Sheen=No sheer PID=2 Sheen=No sheer	Type	Surface SAND V loose, m subangu subround SANDY plasticity odor. SAND (medium- subround SILTY (fine- to m fines; no SAND (medium- SAND (medium- SAND (medium-	FILL VITH SILT AND GRAVEL (SP-toist, grey-brown, fine- to coarse lar to subrounded sand; fine to ded gravel; low plasticity fines; r'SILT (ML); appears soft, mois; fine- to medium-grained, subarticles and gravel; trace fines; no odor. SAND (SM); appears loose, monedium-grained, subangular sand; trace fines; no odor.	e-grained, coarse, no odor. t, grey, low ingular sand; no er fine to coarse, fine to coarse, dist, grey-brown, and; low plasticity er fines; no odor. TS plasticity; trace shown, fine- to be fines; no odor.	Depth (ft) - 5 - 10 - 15 - 20 - 20
25-		gend	oil Sample	e Recovery		▼ Stati	ic Water Level			oration Log Key for explanation	Exploration	-25 -
Sample			nuous cor	-		. -	er Level ATD		of symbol Logged by Approved	y: David Unruh	Log MW-12 Sheet 1 of 1	

	A		~ ~ !		Sc	outh	Park Mai	rina - 19029)3	Monitoring \	Well Log	
	A	sp	ect	8604 Dallas		Proiec	t Address & Site	Specific Location A, 98108, NW of N		Coordinates (SPN NAD83 ft)	Exploration Number	
			JLTING			ie Sout	Factor	ry .		E:1274500 N:195880	MW-13	
	C	Contrac	tor	,	ipment			Sampling Method		Ground Surface Elev. (NAVD88)	Ecology Well Tag N	
		Holt		Geopro				Percussion hammer		18.38'	BND 367	
	(Operate	or	Exploratio	n Metho	d(s)	И	ork Start/Completion	Dates	Top of Casing Elev. (NAVD88)	Depth to Water (Below	
	Cody			Direc	ct push			3/2/2021		18.36'	12.88' (Static)	
	Elev. (feet)		Exploration Completic	Notes and on Details	Sample Type/ID	Sam	Analytical ple Number & ab Test(s)	Field Tests	Material Type Surfa	Description ace: 6 inch asphalt	De	
		NZ.	8-in flu	ush mount			V-13-Ò-1 *	PID=2 Sheen=Slight		FILL		
	15 - 10 - 5		monur concre 3/8-in bentor NSF 6 2-in, th sched casing 10-20 pack □ 3/2/2 2-in, p 0.010-0.	hydrated nife chip seal, 0 nreaded ule 40 PVC well silica sand filter 2021 repacked in (10-slot) 1 streed to seal, 10 silica sand filter	S5 S4 S3 S2 S1	MW-	V-13-3-5 * V-13-3-5 *	PID=2 Sheen=Slight PID=3 Sheen=Slight PID=3 Sheen=Slight PID=3 Sheen=Slight PID=8 Sheen=Slight PID=8 Sheen=Slight PID=7 Sheen=No sheen PID=7 Sheen=No sheen PID=1 Sheen=No sheen	primar odor. SANI grey, fiplastic SANI brown, no odo SILT fine-gr fines; i SANI fine- to fines; i	O (SP); appears loose, moist, greyily medium-grained, subangular so D WITH SILT (SP-SM); appears I ine- to medium-grained, subangulity fines; no odor. O (SP); appears loose, moist, greily medium-grained sand; trace filly medium-grained sand; trace filly medium-grained sand; trace fill fine-grained, subangular sand; left.	cand; trace fines; no cose, moist, light lar sand; low cose, moist, low cose, moist, ow plasticity fines; cose, wet, grey, nd; low plasticity ulfur-like odor.	
	- - -10								Remai	* - Sample submitted to laboratory ning samples preserved and subr hival pending results.	y for analysis. mitted to laboratory	
Type		Conti	oil Sample nuous co sample	e Recovery re 3" ID		Water Level	▼ Static Wa ∇ Water Le		of symbols Logged	ploration Log Key for explanation pols by: David Unruh ed by: AJY	Exploration Log MW-13 Sheet 1 of 1	

	N			201	uth Park Ma	rına - 19028	13		Monitoring V		
7	<i>H</i> SP	ect			Project Address & Site	Specific Location			Coordinates (SPN NAD83 ft)	Exploration Num	ber
_(CONSI	JLTING	8604 Da	llas Ave	enue South, Seattle,			dence	E:1274700 N:195830	MW-14	1
	Contrac	tor	Equi	oment		Sampling Metho	d		Ground Surface Elev. (NAVD88)		
	Holt		Geopro	be 7800)	Percussion ham	mer		18.47'	Ecology Well Ta BND 366	ıg l
	Operat		Exploration			Vork Start/Completion			Top of Casing Elev. (NAVD88)	Depth to Water (Beld	OW
	Cody		· ·	t push	. ,	3/1/2021 to 3/2/2			18.32'	9.99' (Static	
				· 1	Analytical	J. 1/2021 10 3/2/2			10.02	J.33 (Static	Ť
et)	Elev. (feet)	Exploration N Completion	Details	Sample Type/ID	Sample Number & Lab Test(s)	Field Tests	Material Type	Surface	Description 2: 8 inch gravel base course, 3/4	1" minus	ı
5	10 5	monum-concrete 3/8-in h bentonii NSF 60 2-in, thr schedul casing	ydrated te chip seal, eaded e 40 PVC well 2021 2021 2021 2021 2021 2021 2021 2021 2021 2022	S3 S2 S1	MW-14A-0-1 * 0-5 ft cleared with vaccum truck MW-14-4.5-5 * MW-14-12.5-15 MW-14-12.5-20	PID=0.1 Sheen=Organic PID=0.1 Sheen=Organic PID=0.1 Sheen=Organic PID=0.2 Sheen=No sheen PID=0.2 Sheen=No sheen PID=0.5 PID=0.5		SAND V loose, m subangu gravel; k SAND (medium- gravel; tr SANDY plasticity organic r Note: * - Remaini	FILL VITH SILT AND GRAVEL (SP-soist, grey-brown, fine- to coarse, subang by plasticity fines; no odor (SP); appears loose, moist, greygrained, subangular sand; trace ace silt; no odor. TIDAL FLAT DEPOSITS SILT (ML); appears soft, wet, door; trace fine-grained, subangular matter; slight sulfur-like odor. ALLUVIAL DEPOSITS SP); appears loose, wet, dark greydration at 20 ft. bgs. Sample submitted to laboratory of exploration at 20 ft. bgs. Sample submitted to laboratory of samples preserved and subnoval pending results.	SM); appears -grained, ular to subrounded r-brown, fine- to e fine to coarse TS lark brown, low sand; some S rey, fine- to and; trace fines; no	
	Legend	-:I C '	Danier		T 0' '' ''	-A11	•	See Explo	pration Log Key for explanation	Eseral a confi	
ש ה ש		oil Sample	-			ater Level		of symbol		Exploration	OI
Type	:∐ Split	Barrel 3" X			Water Fe	evelAID		-		Log	
렀⊆	Cont	nuous core			ا≝≤			I oaged b	y: Andrew Yonkofski	MW-14	
) '	LEI COITE	Huous core	5 J I D					Approved		10100-1-	

	Aspect			South Park Marina - 190293						Monitoring Well Log						
Y	4	sp	e	Ct	•	204 Dal	laa				Specific Location /A, 98108, W of be		tananaa			ber
•		NSI	-	ING	81				ue Soc	itn, Seattle, W buildii	ng		itenance	E:1274900 N:195790	MW-1	5
	C	ontrac	ctor			Eq	uipn	nent			Sampling Method	d		Ground Surface Elev. (NAVD88)	Ecology Well Ta	_
		Holt				Geop					Percussion ham			16.88'	BND 368	
	C	Operat	tor			Explorat	ion N	<i>l</i> letho	d(s)		Vork Start/Completion	Dates		Top of Casing Elev. (NAVD88)	Depth to Water (Belo	ow GS
		Cody	/			Dire	ect p	oush			3/3/2021	1		16.57'	9.58' (Static)
epth E			Expl Co	oration mpletic	Notes on Det	and ails	Sa	ample /pe/ID	Sam	Analytical ple Number & .ab Test(s)	Field Tests	Material Type		Description 3 inch asphalt		Dep (ft
	15			8-in flu monur concre	ment sete	et in		S.	M\	N-15-0-1 * V-15-1-1.5 N-15-3-5 *	PID=0.8 Sheen=No sheen PID=0.3 Sheen=Very slight		SAND (FILL SP); appears loose, moist, grey- grained, subangular sand; trace ts above 0.5 ft; no odor.		-
5 -	10	***************************************	***************************************	NSF 6	30 hreade lule 40	ip seal, ed PVC wel		S2		. 1000	PID=1 Sheen=Very slight PID=1 Sheen=Very slight PID=1 Sheen=Slight					- - - -
+				<u>⊽</u> 3/3/:	2021			1	М	W-15-8-9	PID=1					+
10+				▼ 3/12	2/2021	sand filte	r		MV	V-15-9-9.5	Sheen=No sheen PID=1 Sheen=No sheen		Becom			<u> </u>
- - - -	5			2-in, p 0.010- slotted PVC s	d sche	dule 40		S3			PID=0.9 Sheen=No sheen		medium- trace org SILT W medium	SAND (SM); appears loose, weigrained, subangular sand; low panic fragments; no odor. //TH SAND (ML); appears soft, plasticity; fine-grained, subangumatter; slight sulfur-like odor.	wet, grey, low to	<u></u>
5+	0			Boring 3/8-in bentor	hydrai			S4			PID=0.7 Sheen=No sheen		plasticity and silt-s SILT (N	TIDAL FLAT DEPOSITION (CL); appears soft, we grame organic matter consisting sized organic particles; moderate ML); appears soft, wet, grey-brown, moderate sulfur-like odor.	t, grey, medium g of plant debris e sulfur-like odor.	-1 -1
20 -			XXXXXXXXXXX					SS	MW	'-15-18.5-20	PID=0.9 Sheen=No sheen		medium- sulfur-lik	ALLUVIAL DEPOSITS SP); appears loose, wet, black, grained, subangular sand; trace e odor. of exploration at 20 ft. bgs.	fine- to	
+	-5												Remaini	Sample submitted to laboratory ng samples preserved and submodule val pending results.	for analysis. nitted to laboratory	 - -
25 -	-10															-2
+																-
Sample				ampleus co		covery		1	Water Level	▼ Static Water Le	ater Level evel ATD		of symbol	y: David Unruh	Exploration Log MW-15	

Managh				rina - 19029			Environmental Ex		
ASPECT CONSULTING	8604 Dallas Av	<i>Proje</i> enue Sout/	<i>ct Address & Site</i> h, Seattle, WA	Specific Location , 98108, W of infe	erred set	tling pond	Coordinates (SPN NAD83 ft)	Exploration Number	r
Contractor	Equipm		locatio	on Sampling Metho			E:1275100 N:195750 (est) Ground Surface Elev. (NAVD88)	SB-26	
Holt	Geoprobe			Percussion hami			15' (est)		
Operator	Exploration N		V	Vork Start/Completion			Top of Casing Elev. (NAVD88)	Depth to Water (Below (GS
,	· ·	. ,	,	•	Datos		, , , ,	, ,	00,
Depth Elev. Exploration	Notes and Sa	ample Sar	Analytical nple Number &	Field Tests	Material		Description		
(feet) (feet) Completion Surfar spoils Boring 3/8-in	pon Details Ty the restored with glackfilled with hydrated hite chips, NSF	Sample Sar O-2: Pos SB	Analytical note Number & Lab Test(s) B-26-0-1 * If cleared with thole digger. SB-26-4-5 -26-5.5-6.5 * SB-26-12.5 * B-26-18-20	Sheen=No sheen PID=1 Sheen=Slight PID=1 Sheen=Slight PID=0.9 Sheen=Slight PID=1 Sheen=Slight PID=1 Sheen=Slight PID=1 Sheen=No sheen	Material Type	SAND V brown, fin coarse, so very slight SILTY Sine- to m fines; son SAND (medium-sulfur-like SAND (medium-sulfur-like SILTY Sinedium-plasticity SILTY Some silt SAND (sto medium-ear upp Bottom o Note: *- Remainir	FILL //ITH GRAVEL (SW); appears lee- to coarse-grained, subangu ubrounded gravel; trace brick at tchemical-like odor. SAND (SM); appears loose, moiedium-grained, subangular same wood and charcoal fragmen SP); appears loose, moist, greygrained, subangular sand; trace TIDAL FLAT DEPOSIT IC SILT (OL); appears soft, mo some 2-inch black organic mate odor. SP); appears loose, moist, greygrained, subangular sand; traceled grayel pears loose, moist, greygrained, subangular sand; traceled grayel near upper contact; traceled grayel near upper traceled grayel near uppe	minus cose, moist, dark lar sand; fine to nd metal debris; ist, red-brown, nd; low plasticity ts; no odor. c-brown, fine- to e fines; no odor. c-brown, fine- to e coarse, race fines; slight c-brown, fine- to o medium or. nedium plasticity; fur-like odor. grey-brown, fine- an size decreases ht sulfur-like odor. for analysis. nitted to laboratory	Depti (ft)
Legend No Soil Sample Continuous co	re 3" ID	Water Level	☑ Water Le	vel ATD		of symbols	<i>y</i> : David Unruh	Exploration Log SB-26	- n

	A	spect			uth Park Ma				Environmental Ex	ploration Lo	
	Öcc	NSULTING	8604 Dall	as Aven	Project Address & Sit ue South, Seattle, \ buildi	WA, 98108, E of boing	oat main	tenance	E:1275000 N:195870 (est)		
		Contractor	Equ	iipment		Sampling Metho	d		Ground Surface Elev. (NAVD88)	- SB-27	'
		Holt	Geopre	obe 780	0	Percussion ham	mer		15' (est)		
	(Operator	Exploration	on Method	d(s)	Work Start/Completion	Dates		Top of Casing Elev. (NAVD88)	Depth to Water (Beld	ow GS)
	1	Cody	Dire	ct push		3/9/2021	1	1	NA	8.25' (ATD))
	Elev. (feet)	Exploration N Completion	lotes and Details	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Surface	Description e: 3 inch asphalt		Depth (ft)
- - - 5 -	- 10	concret	packfilled with	<u>O</u>	SB-27-0-1 * SB-27-3-5	PID=0.6 Sheen=Slight PID=0.8 Sheen=Slight PID=1 Sheen=No sheen		black, lo coarse-g subangu odor. SAND	FILL SILT WITH GRAVEL (ML); ap w to medium plasticity fines; fin grained, subangular sand; fine to lar gravel; trace brick fragments (SP); appears loose, moist, gre- grained, subangular sand; trace	e- to coarse, s; slight asphalt-like y-brown, fine- to	- - - - 5
-	- -	∑ 3/9/20	021		SB-27-8-9 *	Sheen=Slight PID=0.5 Sheen=No sheen PID=0.9 Sheen=No sheen		red-brow odor. SILTY red-brow	/ITH SAND (ML); appears soft, /n, low plasticity; fine-grained, s SAND (SM); appears loose, ver /n, fine-grained, subangular sar	ubangular sand; no	
- 10- -	- 5			S3		PID=1 Sheen=No sheen PID=0.8 Sheen=No sheen		SAND (to mediu	odor. ALLUVIAL DEPOSIT SP); appears loose, wet, black im-grained, subangular sand; tr	to red-brown, fine-	-10
15-	- 0			X 24		PID=0.8 Sheen=No sheen PID=0.3 Sheen=No sheen					- - -15
-	- -			S2	SB-27-18-20	PID=0.5 Sheen=No sheen PID=0.6 Sheen=No sheen					<u>+</u> +
20-	5 - -	TMMMI						Note: * - Remaini	of exploration at 20 ft. bgs. Sample submitted to laboratory ng samples preserved and subroval pending results.		20
25 - - -	10										- -25 -
hple		gend No Soil Sample Continuous core	_			evel ATD		See Explo	oration Log Key for explanation Is	Exploration Log	on
Sample		Continuous core			Water Level			Logged b Approved	y: David Unruh I by: AJY	SB-27 Sheet 1 of 1	

	A	spect	8604 Dall		Project Address & Situe South, Seattle, Venture South,			ntenenco	Environmental Ex Coordinates (SPN NAD83 ft)	ploration Lo Exploration Numb	
		ontractor		as Aven iipment	buildi	ing Sampling Metho		itelielie	E:1274900 N:195890 (est) Ground Surface Elev. (NAVD88)	SB-28	}
	C		•	•	0	Percussion ham			· '		
	(Holt Operator	Exploration	obe 780		Work Start/Completion			15' (est) Top of Casing Elev. (NAVD88)	Depth to Water (Belo	ow GS)
		Cody	•	ct push		3/1/2021	24.00		NA	15' (ATD)	
Depth (feet)	Elev. (feet)	Exploration N Completion	otes and Details	Sample Type/ID	Lab Test(s)	Field Tests	Material Type		Description a: 3 inch asphalt		Depth (ft)
_		Surface concrete	restored with		SB-28-0-1 *	PID=0.8 Sheen=Slight		- SANDY	FILL SILT (ML); appears soft, moist r; fine-grained, subangular sand	, brown, low	T
- - - 5 -	- 10	2/8-in h	ackfilled with drated e chips, NSF		SB-28-3-5	PID=0.7 Sheen=No sheen		SAND	, ime-gramed, subangular sand (SP); appears loose, moist, gre medium-grained, subangular s	/-brown, fine- to	- - - - - 5
- -	-					PID=0.5 Sheen=No sheen PID=1		SANDY to red-br sand; no	TIDAL FLAT DEPOSIT SILT (ML); appears soft, very r own, medium plasticity; fine-gra odor. ALLUVIAL DEPOSIT	moist, mottled grey ained, subangular	_ _
10-	- 5			8		Sheen=Slight			SP); appears loose, moist, red- medium-grained, subangular s	prown, fine- to	10
- ı -	- -			S3		PID=0.5 Sheen=No sheen PID=0.7 Sheen=No sheen		Becom	es very moist, grey-brown.		-
- 15- -	- - 0 -	▽ 3/1/20	21	84	SB-28-14.5-15.5 * SB-28-15.5-18	PID=0.6 Sheen=No sheen PID=0.7 Sheen=No sheen		Becom	es wet.		_ _ _ _ _ _
_	_			SS	SB-28-18-19.5	PID=0.5 Sheen=No sheen		-			
20-	-5	XXXXX		M			**.**	Bottom o	of exploration at 20 ft. bgs.		20
-	- -							Remaini	Sample submitted to laboratory ng samples preserved and subr val pending results.		_ _ _
- 25-	-10										- -25
_											
_											
-	-										+
Sample		gend No Soil Sample Continuous core	-		Water Fevel	evel ATD		of symbol	oration Log Key for explanation is y: David Unruh	Exploration Log SB-28	on

Manage		th Park Marina - 19		Environmental Ex	
Aspec	P. 8604 Dallas Avenue S	roject Address & Site Specific Locate South, Seattle, WA, 98108, SV Factory building	ion V of SW corner of Tire	Coordinates (SPN NAD83 ft)	Exploration Number
Contractor	Equipment	Factory building Sampling	Mothod	E:1274600 N:195990 (est) Ground Surface Elev. (NAVD88)	SB-29
		, ,		, ,	
Holt	Geoprobe 7800	Percussion		16' (est)	Donth to Water (Paleu CC)
1	, , , , , , , ,	<i>'</i>		, , , , ,	, , , ,
Cody	Direct push)21	NA NA	5.5' (ATD)
Operator Cody Depth Elev. Exploratic Comple - 15 Bori	Exploration Method(s) Direct push Notes and on Details Sample Type/ID ce restored with on the control of th		Material Type Surface SAND Surface Surface SAND Surface Surface SAND Surface Surface SAND Surface Surface Surface SAND Surface Surface SAND Surface Surfa	Top of Casing Elev. (NAVD88) NA Description e: 6 inch gravel base course, 3/4 FILL WITH GRAVEL (SP); appears loftine- to medium-grained, subang subangular to subrounded grave (SP); appears loose, moist, brown medium-grained, subangular selium-grained, subangular selium-grained, subangular sand; mungrained, subangular sand; mungra	toose, moist, light pular sand; fine to sl; no odor. Wh, fine- to and; trace fines; no t, light brown, fine-edium plasticity bgs; very slight Sometime to and; trace fines; no rel. 10
Legend No Soil Samp Continuous of	pre 3" ID	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	of symbo Logged b	oration Log Key for explanation ols oy: David Unruh d by: AJY	Exploration Log SB-29 Sheet 1 of 1

	Δ	spe	1			uth Park Mai		Environmental Exploration Log Coordinates (SPN NAD83 ft) Exploration Number				
7	Δ.	NSULI	I	8604 Da	allas Ave	Project Address & Site nue South, Seattle,	Specific Location NA, 98108, W of	of Tire F	actory	Coordinates (SPN NAD83 ft) E:1274600 N:195860 (est)	1	
_		ontractor	ING	Fai	iipment	maintenand	ce area Sampling Method	1		Ground Surface Elev. (NAVD88)	SB-30)
	٥.	Holt			obe 780	n	Percussion hamn			18' (est)		
		Operator		Exploration			Vork Start/Completion			Top of Casing Elev. (NAVD88)	Depth to Water (Beld	OW/
						(O)	·	DUIDO				
- 1		Cody		Dire	ct push	Apolytical	3/1/2021			NA NA	11.7' (ATD)	Т
epth feet)	Elev. (feet)		loration Nompletion		Sample Type/ID	Analytical Sample Number & Lab Test(s) SB-30-0-1 *	Field Tests	Material Type	Surface	Description e: 3 inch asphalt		
-			concrete		18	SB-30-0-1 *	PID=0.1 Sheen=Very slight		brown, fi subangu fines; no	FILL WITH GRAVEL (SW); appears to ine- to coarse-grained, primarily lar sand; fine to coarse, subrour o odor. (SP); appears loose, moist, dark	medium-grained, nded gravel; trace	-
5 -	- 15 - -		3/8-in hv	nackfilled with /drated e chips, NSF	S2A S2A	SB-30A-3-5 *	Sheen=No sheen PID=0.2 Sheen=Slight			medium-grained, subangular sa		
10-	- 10 - -						PID=0.3 Sheen=Organic					
-	-		∑ 3/1/20	021	S3	SB-30-11.5-12.5 * SB-30-12.5-14.5 *	PID=2 Sheen=Slight PID=8		Becom	es wet.		
15-	- 5 - -						Sheen=Slight					
-	- - 0 -				88		PID=2 Sheen=Slight		medium	TIDAL FLAT DEPOSIT SILT (ML); appears soft, wet, g plasticity fines; fine-grained, subded 0.1-0.2 ft w/ layers of silty solor.	rey-brown, low to pangular sand;	
20 - -	-						PID=1 Sheen=No sheen PID=1 Sheen=No sheen		medium-	ALLUVIAL DEPOSITS SP); appears loose, wet, black, tograined, mostly medium-grained ace fines; no odor.	fine- to	
25 -	- - 5 -				S5	SB-30-23-25 *	PID=0.3 Sheen=No sheen					
25 - - -	- - 10								Note: * - Remaini	of exploration at 25 ft. bgs. Sample submitted to laboratory ng samples preserved and submoval pending results.		
Sample Type				Recovery e 1.85" ID		Water Level \(\bar{\bar{\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{\B	vel ATD		of symbol	y: David Unruh	Exploration Log SB-30 Sheet 1 of 1	

Menact			South Park Marina - 190293							Environmental Exploration Log		
-	spec	1 8	3604 Dal			t Address & Site South, Seattle	Specific Location e, WA, 98108, N o		ctorv	Coordinates (SPN NAD83 ft)	Exploration Numl	
	ontractor	G	Equipr			maintenan	ce area Sampling Metho			E:1274500 N:195900 (est) Ground Surface Elev. (NAVD88)	SB-31	
C	Holt		Geoprob		0		Percussion ham			18' (est)		
(Operator		xploration			V	Vork Start/Completion			Top of Casing Elev. (NAVD88)	Depth to Water (Belo	w GS)
	Cody		Direct		.(0)	,	3/1/2021	Datoo		NA	10.5' (ATD)	,
		: NI-4		•		Analytical		Matarial			10.5 (A1D)	
Depth Elev. (feet) (feet)		ion Notes an etion Details	s T	Sample ype/ID	L	ple Number & .ab Test(s)	Field Tests	Material Type	Surface	Description e: 6 inch asphalt		Depti (ft)
- 15 - 10 - 10 - 5 - 15 0 - 20 5 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	Sur con Bor 3/8 ber 60.	rface restore ncrete. ring backfille i-in hydrated ntonite chips	ed with	S4 S3 S2 S2A S1	SB SB-	ab Test(s) 3-31-0-1 * 3-31-10-11 31-13-14.5 *	PID=0.7 Sheen=Slight PID=4 Sheen=Slight PID=4 Sheen=Slight PID=850 Sheen=Heavy PID=834 Sheen=Moderate PID=2 Sheen=Slight PID=3 Sheen=No sheen		Become SAND v moist, br fine to co SAND v primarily odor. Become SANDY medium sulfur-lik SAND v plasticity petroleur SILTY fine-grain moderate slightly ir SAND v plasticity SAND v plasticity SAND v petroleur SILTY fine-grain moderate slightly ir SAND v plasticity SAND v petroleur SILTY fine-grain moderate slightly ir SAND v plasticity SAND v petroleur SILTY fine-grain moderate slightly ir SAND v plasticity	FILL WITH GRAVEL (SW); appears I own, fine- to coarse-grained, subarse, subangular to subrounded (SP); appears loose, moist, brownedium-grained, subangular subangul	rs vn, fine- to and; trace fines; no rs lark grey, low to ular sand; slight cose, wet, dark to medium odor; heavy ater. dark grey, low ; slight t, dark grey, low ; slight dark grey, low ; slight t, dark grey, low sand; no odor. s fine- to primarily e fines; no odor.	
	gend No Soil Sam Continuous		-		Water Level	☑ Water Le	evel ATD		of symbol	y: David Unruh	Exploration Log SB-31	on

K == -	Aspect			th Park Ma Project Address & Site Avenue South, Server and Mainte	e Specific Location eattle, WA, 98108		ıt	Environmental Ex Coordinates (SPN NAD83 ft) E:1274700 N:196070 (est)	Exploration Number
Contrac		Equ	iipment	storage/mainte	Sampling Metho	od		Ground Surface Elev. (NAVD88)	- SB-32
Holt	t	•	obe 7800		Percussion ham			15' (est)	
Opera			on Method(s) 1	Nork Start/Completion	n Dates		Top of Casing Elev. (NAVD88)	Depth to Water (Below GS
Cody	y	Direc	ct push	Analytical	3/8/2021		I	NA NA	7.5' (ATD)
Depth (feet) Elev. (feet)	Exploration No Completion	otes and Details	Sample Type/ID	Sample Number & Lab Test(s)	Field Tests	Material Type		Description	Dep (fit
5 - 10	spoils.	ackfilled with drated e chips, NSF	S5 S4 S3 S2 S1	SB-32-4-5 * SB-32-7-8 SB-32-18-20	PID=0.6 Sheen=Slight PID=0.7 Sheen=Organic PID=0.5 Sheen=Organic PID=0.8 Sheen=No sheen PID=0.8 Sheen=No sheen		SANDY plasticity odor. SILTY fine-grai	TIDAL FLAT DEPOSIT TIDAL FLAT DEPOSIT SILT (ML); appears loose, we, grained, subangular sand; low plast ALLUVIAL DEPOSIT (SP); appears loose, we, load, subangular sand; tracker odor. ALLUVIAL DEPOSIT SAND (SM); appears loose, we, load, subangular sand; low plast ALLUVIAL DEPOSIT SP); appears loose, wet, black, grained, subangular sand; tracker odor. Sample submitted to laboratory ing samples preserved and subritival pending results.	rs grey to brown, low l; slight sulfur-like t, grey, ticity fines; no odor.
Sample Grab	Soil Sample o sample tinuous core tinuous core	3" ID		□ Water Le	evel ATD	1	of symbo	y: David Unruh	Exploration Log SB-32 Sheet 1 of 1

	Acnost				rina - 19029			Environmental Ex		
	Aspect	8604 Dalla	<i>Pi</i> as Avenu	roject Address & Site ie South, Seattle,	e Specific Location WA, 98108, W of dry building	SW co	ner of	Coordinates (SPN NAD83 ft)	Exploration Number	
	CONSULTING Contractor	Equipr		bathroom/laun	dry building Sampling Method	1		E:1274800 N:195940 (est) Ground Surface Elev. (NAVD88)	SB-33	
	Holt	Geoprob			Percussion hamr			16' (est)		
	Operator Operator	Exploration			Work Start/Completion			Top of Casing Elev. (NAVD88)	Depth to Water (Below	w GS
	,	•	. ,	,	,	Dales				v 00,
	Cody	Direct	pusn		3/3/2021	1	1	NA NA	6' (ATD)	
Depth (feet)	(feet) Completion	Details T	Sample Type/ID	Analytical Sample Number & Lab Test(s) SB-33-0-1 *	Field Tests PID=0.2 Sheen=Slight	Material Type	Surface	Description e: 3 inch asphalt FILL		Dept (ft)
+	15 Surface concrete	restored with	S St	SB-33-1-1.5	PID=0.3 Sheen=Slight		loose, m subangu gravel; k	WITH SILT AND GRAVEL (SW- noist, light brown, fine- to coarse ılar sand; fine to coarse, subang ow plasticity fines; no odor.	-grained, jular to subrounded	
+	3/8-in hv	ackfilled with drated e chips, NSF		SB-33-3-5 *	PID=0.3 Sheen=Slight			(SP); appears loose, moist, grey-grained, subangular sand; trace		
5 +					PID=0.6 Sheen=Slight		Becom	es very moist.	_	- 5
_	10 🗸 3/3/20.	21	S2	SB-33-5.5-6.5	PID=0.5 Sheen=Very slight		medium	TIDAL FLAT DEPOSIT IL); appears soft, moist, grey to plasticity; trace organic matter;	red-brown,	-
					PID=0.5 Sheen=No sheen		grey-bro	SAND (SM); appears loose, ver- wn, fine- to medium-grained, su redium plasticity; fine content inc	bangular sand;	_
+					PID=0.6 Sheen=No sheen		toward b	pottom contact; slight sulfur-like ALLUVIAL DEPOSITS SP); appears loose, wet, grey-bi	odor.	_
10+	5		S3		PID=2 Sheen=No sheen		medium sulfur-lik	-grained, subangular sand; trace	e fines; slight	- 10
-					PID=5 Sheen=No sheen				-	
+			S4		PID=2 Sheen=No sheen				-	_
15+	0				PID=2				-	- 15 -
_			S5	00.00.40.00	Sheen=No sheen		Becom	es brown.		
_				SB-33-18-20	PID=5 Sheen=No sheen				-	-
20-			4				Bottom o	of exploration at 20 ft. bgs.		20
-	-5						Remaini	Sample submitted to laboratory ng samples preserved and subn val pending results.	for analysis. nitted to laboratory	
									-	<u> </u>
25-									_	 -25
	-10								-	
									-	-
†									-	
†									-	
Sample Type	Legend No Soil Sample Continuous core Continuous core	3" ID	Water		evel ATD	1	of symbo	y: David Unruh	Exploratio Log SB-33	n

	Acast				rina - 19029			Environmental Ex		
	Aspect	8604 Dallas A	<i>Projed</i> Avenue So	ct Address & Site uth. Seattle. V	Specific Location VA, 98108, S of S' uilding	N corne	r of Tire	Coordinates (SPN NAD83 ft)	Exploration Numb	ber
	Contractor			Factoré b	uilding	4		E:1274600 N:195920 (est)	SB-34	•
								· ´		
				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				· ' '	Denth to Water (Relo	w GS
	•	, '	. ,		,	Dales		, , , ,		W OO,
	Cody	Direct pi		A 1 11 1	3/2/2021			NA NA	6 (ATD)	_
Depth (feet) 5	(feet) Completion Surface spoils. 15 Boring t	Equipme Geoprobe Exploration M Direct pu lotes and Details Tyr restored with	ent 7800 lethod(s) ush mple Sam Peril SS SS SB- SB-		Sampling Methon Percussion haming Mork Start/Completion 3/2/2021 Field Tests PID=0.5 Sheen=Slight PID=0.4 Sheen=Slight PID=1 Sheen=No sheen PID=3 Sheen=No sheen	d mer	SAND (primarily becomes SANDY plasticity matter ir sulfur-lik SILTY to mediu subtrace SILT (plasticity SAND (medium-sulfur-lik sulfur-lik sulfu	TIDAL FLAT DEPOSIT SILT (ML); appears soft, wet, or; fine-grained, subangular sand acluding root fragments near uple odor. SAND (SM); appears loose, wet im-grained, subangular sand; lore organic matter; slight sulfur-like ML); appears soft, wet, dark greyr; slight sulfur-like odor. ALLUVIAL DEPOSITS SP); appears loose, wet, black, grained, subangular sand; trace	Depth to Water (Belon 6' (ATD) "minus brown, fine- to and; trace fines; lark grey, low trace organic per contact; slight "to dark grey, fine-we plasticity fines; e odor." "y, medium sfine- to primarily e fines; slight for analysis.	
25-	-10									-25 -
Sample Type	Legend No Soil Sample Continuous core Continuous core	e 3" ID	Water Level	☑ Water Le	evel ATD		of symbol	oration Log Key for explanation ls y: David Unruh	Exploratio Log SB-34) on

APPENDIX B

Phase 1 and Historical Results - Data Tables and Figures

Appendix B – Phase 1 and Historical Results - Data Tables and Figures

Tables:	
B.1	Soil Chemical Analytical Results (Vadose Zone)
B.2	Soil Chemical Analytical Results (Saturated Zone)
B.3	Groundwater Chemical Analytical Results
B.4	Stormwater Chemical Analytical Results
B.5	Catch Basin Solids Chemical Analytical Results
B.6	Statistical Summary of Soil Chemical Analytical Results - Vadose Zone
B.7	Statistical Summary of Soil Chemical Analytical Results - Saturated Zone
B.8	Statistical Summary of Groundwater Chemical Analytical Results - Shallov Monitoring Wells
B.9	Statistical Summary of Groundwater Chemical Analytical Results - Alluvial Monitoring Wells
Figures:	
B.1	Aldrin Results in Vadose Zone Soil
B.2	Aldrin Results in Saturated Soil
B.3	BEHP Results in Vadose Zone Soil
B.4	BEHP Results in Saturated Soil
B.5	Copper Results in Vadose Zone Soil
B.6	Copper Results in Saturated Soil
B.7	Zinc Results in Vadose Zone Soil
B.8	Zinc Results in Saturated Soil
B.9	TBT Results in Vadose Zone Soil
B.10	TBT Results in Saturated Soil
B.11	PCBs Results in Vadose Zone Soil
B.12	PCBs Results in Saturated Soil
B.13	PCE Results in Vadose Zone Soil
R 14	PCF Results in Saturated Soil

B.15	Gasoline-Range TPH Results in Vadose Zone Soil
B.16	Gasoline-Range TPH Results in Saturated Soil
B.17	Sum of Diesel- and Oil-Range TPH Results in Vadose Zone Soil
B.18	Sum of Diesel- and Oil-Range TPH Results in Saturated Soil
B.19	Aldrin Results in Groundwater
B.20	BEHP Results in Groundwater
B.21	Copper Results in Groundwater
B.22	Zinc Results in Groundwater
B.23	TBT Results in Groundwater
B.24	PCBs Results in Groundwater
B.25	PCE Results in Groundwater
B.26	Gasoline-Range TPH Results in Groundwater
B.27	Sum of Diesel- and Oil-Range TPH Results in Groundwater

APPENDIX B

Tables

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	B-01 11/17/2017 B-01-2-3 2 - 3 ft	B-01 11/17/2017 B-01-3.5-4.5 3.5 - 4.5 ft	B-02 11/17/2017 B-02-2.5-3 2.5 - 3 ft	B-03 11/17/2017 B-03-0-1 0 - 1 ft	B-03 11/17/2017 B-03-2-3 2 - 3 ft	B-03 11/17/2017 B-03-5-6 5 - 6 ft	B-04 11/17/2017 B-04-0-1 0 - 1 ft	B-04 11/17/2017 B-04-2-2.5 2 - 2.5 ft	B-04 11/17/2017 B-04-5-6 5 - 6 ft	HA-01 03/11/2021 HA-1-0-1 0 - 1 ft	HA-01 03/11/2021 HA-1-2-3 2 - 3 ft	HA-02 03/11/2021 HA-2-0-1 0 - 1 ft
Analyte	CAS RN	Unit	SPM_RI_VADOSE- SOILS_SLS 2022.02	Screening Level Source												
Metals		Onne		000,00										I.		
Arsenic	7440-38-2	mg/kg	7.3	SL-10	_	-	_	_	_	_			_	7.4 J	4.87 J	6.57 J
Cadmium	7440-43-9	mg/kg	0.77	SL-10	-	-	1	-	-	-	-		-	3.25	0.68	3.4
Chromium	7440-47-3	mg/kg	48.2	SL-10	-				-		_		-	65.4	18	71.3
Copper	7440-50-8	mg/kg	36.4	SL-10										135	23.5	148
Lead	7439-92-1	mg/kg	50	SL-9				-			-			426 J	129 J	512 J
Mercury	7439-97-6	mg/kg	0.07	SL-10	-	-			-		-		-	1.96 J	0.253 J	2.42 J
Nickel	7440-02-0	mg/kg	48	SL-10	-	-	-		-		-		-	23.3 J	13.3 J	18 J
Silver	7440-22-4	mg/kg	0.323	SL-3 SL-9	-						-	-				471
Zinc	7440-66-6	mg/kg	86	SL-9										338	342	471
Butyl Tin Ions Dibutyltin Ion	14488-53-0	mg/kg	1	I	-	1								0.0802	0.0105	0.0243
MonobutyItin	78763-54-9	mg/kg			-	-			-	-	-		-	0.0505	0.0105	0.0243
	1461-25-2					-		_		-	_			< 0.00494 U	< 0.00498 U	
Tetrabutyltin Tributyltin Ion	36643-28-4	mg/kg mg/kg	0.0021	SL-8		-								0.0507	0.000985 J	0.0103
Polychlorinated Biphenyl Aroclors	000-70-20-4	mg/ng	0.0021											0.0307	0.000000 J	0.0103
Aroclor 1016	12674-11-2	mg/kg			< 0.55 U	< 0.054 U	< 0.58 U	< 1.1 U	< 1.1 U	< 1.2 U	< 0.057 U	< 1.1 U	< 6.3 U	< 0.4 U	< 0.223 U	< 0.232 U
Aroclor 1221	11104-28-2	mg/kg	†		< 0.55 U	< 0.054 U	< 0.58 U	< 1.1 U	< 1.1 U	< 1.2 U	< 0.057 U	< 1.1 U	< 6.3 U	< 0.4 U	< 0.223 U	< 0.232 U
Aroclor 1232	11141-16-5	mg/kg			< 0.55 U	< 0.054 U	< 0.58 U	< 1.1 U	< 1.1 U	< 1.2 U	< 0.057 U	< 1.1 U	< 6.3 U	< 0.4 U	< 0.223 U	< 0.232 U
Aroclor 1242	53469-21-9	mg/kg	Ì	İ	< 0.55 U	< 0.054 U	< 0.58 U	< 1.1 U	3.9	5.2	< 0.057 U	4	< 6.3 U	< 0.4 U	< 0.223 U	< 0.232 U
Aroclor 1248	12672-29-6	mg/kg	Ì	İ	< 0.55 U	< 0.054 U	< 0.58 U	< 1.1 U	< 1.1 U	< 1.2 U	< 0.057 U	< 1.1 U	< 6.3 U	< 0.4 U	< 0.223 U	< 0.232 U
Aroclor 1254	11097-69-1	mg/kg	Ì	İ	4.7	1.7	3.5	14	9.8	19	0.7	19	34	5	5.23	6.17
Aroclor 1260	11096-82-5	mg/kg			2.1	1.7	< 0.58 U	6.1	2.8	7.2	0.64	5.3	10	2.24	1.34	2.14
Aroclor 1262	37324-23-5	mg/kg				-		_						< 0.4 U	< 0.223 U	< 0.232 U
Aroclor 1268	11100-14-4	mg/kg			-			-		-	-			< 0.4 U	< 0.223 U	< 0.232 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	1.1E-05	SL-3	8.18	3.54	5.24	22.9	18.7	33.8	1.48	30.5	59.8	8.64	7.35	9.12
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3	6.8	3.4	3.5	20.1	16.5	31.4	1.34	28.3	44	7.24	6.57	8.31
Aroclor 1016 (OC normalized)	12674-11-2-OC	mg/kg-OC			_	-		-	_	_	_		_	-		
Aroclor 1221 (OC normalized)	11104-28-2-OC	mg/kg-OC			-	-			_	-	-		_			-
Aroclor 1232 (OC normalized)	11141-16-5-OC	mg/kg-OC			-	-				-	-			-		
Aroclor 1242 (OC normalized)	53469-21-9-OC	mg/kg-OC			ı	-	1	-	-	-	-		-		-	
Aroclor 1248 (OC normalized)	12672-29-6-OC	mg/kg-OC			1	-	-	-	-	-	-		-	_		-
Aroclor 1254 (OC normalized)	11097-69-1-OC	mg/kg-OC			-	-	1	-	-		-		-	-	-	
Aroclor 1260 (OC normalized)	11096-82-5-OC	mg/kg-OC			-		-	-	-		-		-	_		
Aroclor 1262 (OC normalized)	37324-23-5-OC	mg/kg-OC			-				-		_		-			
Aroclor 1268 (OC normalized)	11100-14-4-OC	mg/kg-OC			-				-				-	-		
Total PCBs (Sum of Aroclors) OC normalized	T-PCBs-OC	mg/kg-OC							-				-			
Polychlorinated Biphenyl Congeners																
Total PCB Congeners	T-PCBCong	mg/kg	1.1E-05	SL-3	5.91	-		14.4		-	-		107	-		
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	6.93E-09	SL-3	0.000158	-		0.000428	-		-		0.00214 J			
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	6.93E-09	SL-3	0.000161			0.000430					0.00215 J			
Dioxins/Furans	ODD TEO MOU		05.00	01.0	ı	ı	l							ı		
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9	-											
Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0)	CDF TEQ-1/2U DF-TEQ-0U	mg/kg	2E-06 5.2E-06	SL-9 SL-10	-	-		-			-					
	DF-TEQ-00 DF-TEQ-1/2U	mg/kg	5.2E-06 5.2E-06	SL-10 SL-10	-	-		-		-						
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons	DF-1EQ-1/20	mg/kg	5.2E-U0	SL-10												
1-Methylnaphthalene	90-12-0	mg/kg	34.5	SL-1				-						0.0168	0.0225	0.0234
2-Methylnaphthalene	91-57-6	mg/kg	0.67	SL-8										0.0188	0.0225	0.0234
Acenaphthene	83-32-9	mg/kg	0.5	SL-8		 _								0.0057 J	0.00306 J	0.0278 0.00496 J
Acenaphthylene	208-96-8	mg/kg	1.3	SL-8			-			-	_			< 0.015 U	0.003063	0.00496 J
Anthracene	120-12-7	mg/kg	0.96	SL-8							_			0.00908 J	0.0139	0.00303 J
Benzo(q,h,i)perylene	191-24-2	mg/kg	0.67	SL-8				_	-		_		-	0.0985	0.108	0.0726
Fluoranthene	206-44-0	mg/kg	1.7	SL-8	_	_	-	_						0.11	0.053	0.1
Fluorene	86-73-7	mg/kg	0.54	SL-8	-	-			_	-	_		_	0.0104 J	0.0054	0.00625 J
Naphthalene	91-20-3	mg/kg	0.0389	SL-3	-									0.0412	< 0.00623 U	0.0286
Phenanthrene	85-01-8	mg/kg	1.5	SL-8	-		-		_	-	-		_	0.0656	0.0541	0.246
Pyrene	129-00-0	mg/kg	2.6	SL-8	-	-	-	-	-	-			-	0.106	0.0589	0.103
Benz(a)anthracene	56-55-3	mg/kg			_				_		-	-	_	0.0469	0.0222	0.0359
Benzo(a)pyrene	50-32-8	mg/kg	0.00031	SL-3	-		-	-		-				0.0723	0.0412	0.0528
Benzo(b)fluoranthene	205-99-2	mg/kg			-	-	-		_	-	-		_	0.0823	0.0618	0.0588
Benzo(j)fluoranthene	205-82-3	mg/kg			-			-						0.0427	0.0324	0.0284
Benzo(k)fluoranthene	207-08-9	mg/kg						_		-				0.0401	0.023	0.0268
Chrysene	218-01-9	mg/kg			-	-		-	-				-	0.0825	0.0622	0.071
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ļ							-				0.0168	0.0136	0.0131 J
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg			-					-	-			0.0681	0.0744	0.0516
Total Benzofluoranthenes	TOTBFA	mg/kg	3.2	SL-8	-	-	-	-	-	-	-		-	0.164	0.116	0.117
Total HPAHs	T-HPAH	mg/kg	12	SL-8	-			-						0.724	0.518	0.586 J
Total LPAHs	T-LPAH	mg/kg	5.2	SL-8	-	I		I						0.132 J	0.143 J	0.304 J

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	HA-02 03/11/2021 HA-2-2-3 2 - 3 ft	MW-04 03/04/2021 MW-4-0-1 0 - 1 ft	MW-04 03/04/2021 MW-4-4-5 4 - 5 ft	MW-05 03/05/2021 MW-5-0-1 0 - 1 ft	MW-06 03/05/2021 MW-6-0-1 0 - 1 ft	MW-06 03/05/2021 MW-6-4-5 4 - 5 ft	MW-07 03/09/2021 MW-7-0-1 0 - 1 ft	MW-07 03/09/2021 MW-7-3-5 3 - 5 ft	MW-07 03/09/2021 MW-7-5-6 5 - 6 ft	MW-08 03/09/2021 MW-8-0-1 0 - 1 ft	MW-08 03/09/2021 MW-8-3-5 3 - 5 ft
Analyte	CAS RN	Unit	SPM_RI_VADOSE- SOILS_SLS 2022.02	Screening Level Source											
Metals															
Arsenic	7440-38-2	mg/kg	7.3	SL-10	3.81 J	5.03	1.48	20.7	6.81	2.44	3.71 J	2.26	2.03 J	5.42 J	2.62
Cadmium	7440-43-9	mg/kg	0.77	SL-10	0.96	0.86	0.24	2.09	0.35	0.09 J	0.25	0.06 J	0.06 J	0.48	0.06 J
Chromium	7440-47-3	mg/kg	48.2	SL-10	23.2	33.1	20.3	50.2	17.9	15.1	14.6 J	10.5	17.9 J	10.3 J	9.14
Copper	7440-50-8 7439-92-1	mg/kg	36.4 50	SL-10	27.9 179 J	66.3	8.76	135	99.9	31.1	65.3	15	18.1	45.7	12.8
Lead Mercury	7439-92-1	mg/kg mg/kg	0.07	SL-9 SL-10	0.676 J	587 J 0.997	23.4	313 J 0.392	64.8 J 0.0668	19.7 J 0.0162 J	40 J 0.0469 J	8.22	13.3 J 0.0252 J	206 J 0.174 J	1.93
Nickel	7440-02-0	mg/kg	48	SL-10	8.98 J	16.6	6.71	14.9	15.7	11.7	16.3 J	7.9	7.97 J	15.8 J	8.9
Silver	7440-22-4	mg/kg	0.323	SL-3	0.30 3	10.0		14.5			10.5 5	7.5		13.0 3	
Zinc	7440-66-6	mg/kg	86	SL-9	184	124	43	337	127	38.9	71.7	36.8	47.5	90.2	21.3
Butyl Tin Ions															
Dibutyltin Ion	14488-53-0	mg/kg			< 0.0057 U			0.0564 J	-				_	0.00309 J	
Monobutyltin	78763-54-9	mg/kg			0.00342 J			0.0547	-				-	0.00297 J	
Tetrabutyltin	1461-25-2	mg/kg			< 0.00493 U			< 0.05 U	-				-	< 0.005 U	
Tributyltin Ion	36643-28-4	mg/kg	0.0021	SL-8	< 0.0038 U			0.0894	-				-	0.00291 J	
Polychlorinated Biphenyl Aroclors	40071110				. 0 000 !!	.06:=::	1	.06:=::	.0010011	.000111	.0.00111		.0.00111	. 0 00111	
Aroclor 1016 Aroclor 1221	12674-11-2 11104-28-2	mg/kg	<u> </u>		< 0.399 U < 0.399 U	< 0.217 U < 0.217 U	< 0.11 U < 0.11 U	< 0.217 U < 0.217 U	< 0.0199 U < 0.0199 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U		< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	
Aroclor 1221 Aroclor 1232	11104-28-2 11141-16-5	mg/kg mg/kg	-		< 0.399 U < 0.399 U	< 0.217 U	< 0.11 U	< 0.217 U	< 0.0199 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U		< 0.004 U < 0.004 U	< 0.004 U	-
Aroclor 1232 Aroclor 1242	53469-21-9	mg/kg mg/kg	1		< 0.399 U	< 0.217 U	< 0.11 U	< 0.217 U	< 0.0199 U	< 0.004 U	< 0.004 U		< 0.004 U	< 0.004 U	
Aroclor 1248	12672-29-6	mg/kg			< 0.399 U	< 0.217 U	< 0.11 U	< 0.217 U	< 0.0199 U	< 0.004 U	< 0.004 U		< 0.004 U	< 0.004 U	
Aroclor 1254	11097-69-1	mg/kg			6.1	2.41	2.2	2.67	0.0628	0.06	0.0222		0.0124	0.021	
Aroclor 1260	11096-82-5	mg/kg			1.08	1.78	1.34	1.08	0.168	0.0843	0.0703		0.0298	0.0591	
Aroclor 1262	37324-23-5	mg/kg			< 0.399 U	< 0.217 U	< 0.11 U	< 0.217 U	< 0.0199 U	< 0.004 U	< 0.004 U		< 0.004 U	< 0.004 U	
Aroclor 1268	11100-14-4	mg/kg			< 0.399 U	< 0.217 U	< 0.11 U	< 0.217 U	< 0.0199 U	< 0.004 U	< 0.004 U		< 0.004 U	< 0.004 U	
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	1.1E-05	SL-3	8.58	4.95	3.93	4.51	0.300	0.158	0.107		0.0562	0.0941	
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3	7.18	4.19	3.54	3.75	0.231	0.144	0.0925		0.0422	0.0801	
Aroclor 1016 (OC normalized)	12674-11-2-OC	mg/kg-OC													
Aroclor 1221 (OC normalized)	11104-28-2-OC	mg/kg-OC											_		
Aroclor 1232 (OC normalized)	11141-16-5-OC	mg/kg-OC							-						
Aroclor 1242 (OC normalized)	53469-21-9-OC	mg/kg-OC	-												
Aroclor 1248 (OC normalized) Aroclor 1254 (OC normalized)	12672-29-6-OC 11097-69-1-OC	mg/kg-OC					-		-				-		
Aroclor 1260 (OC normalized)	11097-69-1-OC	mg/kg-OC mg/kg-OC				-		-							
Aroclor 1260 (OC normalized)	37324-23-5-OC	mg/kg-OC													
Aroclor 1268 (OC normalized)	11100-14-4-OC	mg/kg-OC													
Total PCBs (Sum of Aroclors) OC normalized	T-PCBs-OC	mg/kg-OC											-		
Polychlorinated Biphenyl Congeners															
Total PCB Congeners	T-PCBCong	mg/kg	1.1E-05	SL-3	-	5.65			-				_	0.216	
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	6.93E-09	SL-3		0.000240		-	-				-	0.00000770	
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	6.93E-09	SL-3		0.000241							-	0.00000770	
Dioxins/Furans							1				1			1	
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9					-				-		
Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0)	CDF_TEQ-1/2U DF-TEQ-0U	mg/kg	2E-06 5.2E-06	SL-9 SL-10									-		
Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-00 DF-TEQ-1/2U	mg/kg	5.2E-06 5.2E-06	SL-10 SL-10				-	-						
Polycyclic Aromatic Hydrocarbons	DI-1EQ-1/20	mg/kg	J.ZE-00	OL-10											
1-Methylnaphthalene	90-12-0	mg/kg	34.5	SL-1	0.00237 J	0.00706 J		0.00643	< 0.00498 U	< 0.00496 U	< 0.00498 U		< 0.00496 U	< 0.005 U	
2-Methylnaphthalene	91-57-6	mg/kg	0.67	SL-8	0.00543	0.0111 J		< 0.005 U	< 0.00498 U	< 0.00496 U	< 0.00498 U		< 0.00496 U	< 0.005 U	
Acenaphthene	83-32-9	mg/kg	0.5	SL-8	< 0.005 U	< 0.015 U		0.00143 J	< 0.00498 U	< 0.00496 U	< 0.00498 U		< 0.00496 U	< 0.005 U	
Acenaphthylene	208-96-8	mg/kg	1.3	SL-8	0.00211 J	0.00339 J		0.00252 J	0.00192 J	< 0.00496 U	0.00364 J		< 0.00496 U	0.00549	
Anthracene	120-12-7	mg/kg	0.96	SL-8	0.00397 J	0.00935 J		0.00755	0.00275 J	< 0.00496 U	0.00467 J		< 0.00496 U	0.00761	
Benzo(q,h,i)perylene	191-24-2	mg/kg	0.67	SL-8	0.0307	0.0358		0.0281	0.0199	0.00241 J	0.017		0.00129 J	0.0594	└
Fluoranthene	206-44-0	mg/kg	1.7	SL-8	0.00458 J	0.0356		0.0419	0.0158	0.00173 J	0.0181		0.00166 J	0.0263	
Fluorene	86-73-7	mg/kg	0.54	SL-8	< 0.005 U	< 0.015 U		< 0.005 U	< 0.00498 U	< 0.00496 U	0.00092 J		< 0.00496 U	0.00094 J	
Naphthalene	91-20-3	mg/kg	0.0389	SL-3	0.00374 J	< 0.00633 U		< 0.00804 U	< 0.00498 U	< 0.00496 U	0.00153 J		< 0.00496 U	0.00198 J	
Phenanthrene Pyrene	85-01-8 129-00-0	mg/kg mg/kg	1.5 2.6	SL-8 SL-8	0.00447 J 0.00481 J	0.0289 0.0362		0.0251 0.0388	0.00623 0.0166	< 0.00496 U 0.00191 J	0.0101 0.0206		0.00154 J 0.00177 J	0.00793 0.0303	
Benz(a)anthracene	56-55-3	mg/kg mg/kg	۷.0	JL-0	0.00481 J 0.00204 J	0.0362		0.0388	0.0166	0.00191 J 0.00098 J	0.0206		< 0.00177 J	0.0303	
Benzo(a)pyrene	50-32-8	mg/kg	0.00031	SL-3	0.00204 J	0.0252		0.0145	0.00827	0.00098 J	0.00996		0.00128 J	0.0165	
Benzo(b)fluoranthene	205-99-2	mg/kg	0.0000	02.0	0.00624	0.0274	-	0.0265	0.0254	0.00178 J	0.0173		0.00144 J	0.0611	
Benzo(j)fluoranthene	205-82-3	mg/kg			0.00335 J	0.0147 J		0.0114	0.0113	0.00114 J	0.011		< 0.00496 U	0.0277	
Benzo(k)fluoranthene	207-08-9	mg/kg			0.00235 J	0.0131 J		0.0111	0.01	0.00081 J	0.00986		< 0.00496 U	0.0275	
Chrysene	218-01-9	mg/kg			0.00548	0.0331		0.0368	0.0194	0.00167 J	0.0172		0.00152 J	0.0391	-
Dibenzo(a,h)anthracene	53-70-3	mg/kg			0.00226 J	0.00688 J		0.00598	0.00392 J	< 0.00496 U	0.00355 J		< 0.00496 U	0.0103	
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg			0.0084	0.0226		0.0207	0.0151	0.00245 J	0.0119		< 0.00496 U	0.049	
Total Benzofluoranthenes	TOTBFA	mg/kg	3.2	SL-8	0.0125	0.0584		0.0522	0.0454	0.00386 J	0.0376		< 0.00991 U	0.115	
Total HPAHs	T-HPAH	mg/kg	12	SL-8	0.0702 J	0.272 J		0.258	0.157 J	0.0167 J	0.142 J		0.00896 J	0.386	└─ ─
Total LPAHs	T-LPAH	mg/kg	5.2	SL-8	0.0143 J	0.0416 J		0.0366 J	0.0109 J	< 0.00496 U	0.0209 J		0.00154 J	0.0240 J	ı I

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	MW-09 03/09/2021 MW-9-0-1 0 - 1 ft	MW-09 03/09/2021 MW-9-5-6 5 - 6 ft	MW-10 03/08/2021 MW-10-0-1 0 - 1 ft	MW-11 03/08/2021 MW-11-0-1 0 - 1 ft	MW-11 03/08/2021 MW-11-3-5 3 - 5 ft	MW-12 03/03/2021 MW-12-0-1 0 - 1 ft	MW-12 03/03/2021 MW-12-3-5 3 - 5 ft	MW-13 03/01/2021 MW-13-0-1 0 - 1 ft	MW-13 03/01/2021 MW-13-3-5 3 - 5 ft	MW-14 03/10/2021 MW-14A-0-1 0 - 1 ft	MW-14 03/01/2021 MW-14-4.5-5 4.5 - 5 ft
Analyte	CAS RN	Unit	SPM_RI_VADOSE- SOILS_SLS 2022.02	Screening Level Source											
Metals	CAS_KN	Offic	_2022.02	Source			ı		l .						
Arsenic	7440-38-2	mg/kg	7.3	SL-10	1.84 J	5.58 J	5.08	5.75		3.59	10.3	3.77 J	2.23 J	27.4 J	2.14 J
Cadmium	7440-43-9	mg/kg	0.77	SL-10	0.04 J	< 0.12 U	0.26	0.66		0.15	0.67	0.07 J	0.04 J	0.3	0.11
Chromium	7440-47-3	mg/kg	48.2	SL-10	14.3 J	9.5 J	12.4	15.1		23.1	14.8	7.88	9.85	34.3	9.81
Copper	7440-50-8	mg/kg	36.4	SL-10	12.6	15.5	31.5	71.3		22.9	88.1	9.65 J	10.2 J	292	14 J
Lead	7439-92-1 7439-97-6	mg/kg	50 0.07	SL-9 SL-10	1.81 J 0.0103 J	2 J 0.0168 J	34.4 0.0382	23.4 0.0339		39.4 J 0.0276	332 J 0.302	9.53 J 0.0192 J	4.98 J 0.0161 J	42 J 0.187 J	29.5 J 0.0142 J
Mercury Nickel	7440-02-0	mg/kg mg/kg	48	SL-10	22.1 J	8.3 J	12.4	19.7		32.3	12	6.57	8.34	52 J	8.34
Silver	7440-22-4	mg/kg	0.323	SL-3											
Zinc	7440-66-6	mg/kg	86	SL-9	24.6	21.2	60.5	104		48.7	134	21.7	23.1	145	44
Butyl Tin Ions															
Dibutyltin Ion	14488-53-0	mg/kg			< 0.00571 U	0.00265 J	< 0.00576 U	0.0232		-			-	0.0275	< 0.00578 U
Monobutyltin	78763-54-9	mg/kg			< 0.00403 U	0.00197 J	< 0.00407 U	0.00868			-		-	0.016	< 0.00408 U
Tetrabutyltin	1461-25-2 36643-28-4	mg/kg	0.0021	SL-8	< 0.00494 U < 0.00381 U	< 0.00497 U		< 0.00497 U					-	< 0.00495 U	< 0.005 U < 0.00386 U
Tributyltin Ion Polychlorinated Biphenyl Aroclors	30043-20-4	mg/kg	0.0021	SL-6	< 0.00361 0	0.00317 J	0.00058 J	0.0496					-	0.0136	< 0.00366 0
Aroclor 1016	12674-11-2	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U
Aroclor 1221	11104-28-2	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U
Aroclor 1232	11141-16-5	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U
Aroclor 1242	53469-21-9	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U
Aroclor 1248	12672-29-6	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U
Aroclor 1254	11097-69-1	mg/kg			< 0.004 U	< 0.004 U	0.0129	< 0.004 U	0.008	0.0096	0.015	< 0.004 U	< 0.004 U	0.0266	0.0026 J
Aroclor 1260 Aroclor 1262	11096-82-5 37324-23-5	mg/kg ma/ka			0.0009 J < 0.004 U	< 0.004 U < 0.004 U	0.0398 < 0.004 U	0.0799 < 0.004 U	0.0154 < 0.004 U	0.013 < 0.004 U	0.0392 < 0.004 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	0.0249 < 0.02 U	0.004 J < 0.004 U
Aroclor 1268	11100-14-4	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.02 U	< 0.004 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	1.1E-05	SL-3	0.0169 J	< 0.004 U	0.0667	0.0959	0.0374	0.0366	0.0682	< 0.004 U	< 0.004 U	0.122	0.0206 J
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3	0.000900 J	< 0.004 U	0.0527	0.0799	0.0234	0.0226	0.0542	< 0.004 U	< 0.004 U	0.0515	0.00660 J
Aroclor 1016 (OC normalized)	12674-11-2-OC	mg/kg-OC			-		-				-		-		
Aroclor 1221 (OC normalized)	11104-28-2-OC	mg/kg-OC			-						-				
Aroclor 1232 (OC normalized)	11141-16-5-OC	mg/kg-OC					-						-		
Aroclor 1242 (OC normalized)	53469-21-9-OC 12672-29-6-OC	mg/kg-OC				-	-						-	-	
Aroclor 1248 (OC normalized) Aroclor 1254 (OC normalized)	11097-69-1-OC	mg/kg-OC mg/kg-OC			-		-								
Aroclor 1260 (OC normalized)	11096-82-5-OC	mg/kg-OC			-										
Aroclor 1262 (OC normalized)	37324-23-5-OC	mg/kg-OC					-								
Aroclor 1268 (OC normalized)	11100-14-4-OC	mg/kg-OC				-							-		
Total PCBs (Sum of Aroclors) OC normalized	T-PCBs-OC	mg/kg-OC													
Polychlorinated Biphenyl Congeners	T-PCBCong		1.1F-05	SL-3					1						
Total PCB Congeners Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg ma/ka	1.1E-05 6.93F-09	SL-3 SL-3	-		0.0363 0.00000172						-		
Total PCB TEQ (ND = 0)	PCB-TEQ-1/2U	mg/kg	6.93E-09	SL-3			0.00000172								
Dioxins/Furans	1 00 124 1120	mgrsg	0.002 00	020			0.00000								
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9	_		_		-	-			-		
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9	_	-	-			-	-		_	-	
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg	5.2E-06	SL-10	-		-				-		-		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons	DF-TEQ-1/2U	mg/kg	5.2E-06	SL-10		-	-								
1-Methylnaphthalene	90-12-0	mg/kg	34.5	SL-1	< 0.005 U	< 0.00498 U	< 0.005 U	< 0.0249 U		< 0.00498 U	< 0.005 U	< 0.00497 U	< 0.005 U	0.00459 J	< 0.00499 U
2-Methylnaphthalene	91-57-6	mg/kg	0.67	SL-8	< 0.005 U	< 0.00498 U	< 0.005 U	< 0.0249 U		< 0.00498 U	< 0.005 U	< 0.00497 U	< 0.005 U	< 0.00498 U	< 0.00499 U
Acenaphthene	83-32-9	mg/kg	0.5	SL-8	< 0.005 U	< 0.00498 U	< 0.005 U	< 0.0249 U	-	0.00068 J	< 0.005 U	< 0.00497 U	< 0.005 U	0.00433 J	< 0.00499 U
Acenaphthylene	208-96-8	mg/kg	1.3	SL-8	< 0.005 U	< 0.00498 U	0.00427 J	0.00559 J		< 0.00498 U	0.00203 J	< 0.00497 U	< 0.005 U	0.00239 J	< 0.00499 U
Anthracene	120-12-7	mg/kg	0.96	SL-8	< 0.005 U	< 0.00498 U	0.00521	0.00689 J		0.00105 J	0.00153 J	< 0.00497 U	< 0.005 U	0.00827	< 0.00499 U
Benzo(q,h,i)perylene	191-24-2	mg/kg	0.67	SL-8	< 0.005 U	< 0.00498 U	0.065	0.14		0.0067	0.0142	0.00935	0.0106	0.027	0.00296 J
Fluoranthene Fluorene	206-44-0 86-73-7	mg/kg ma/ka	1.7 0.54	SL-8 SL-8	< 0.005 U < 0.005 U	0.00225 J < 0.00498 U	0.0136 < 0.005 U	0.0299 < 0.0249 U		0.00864 < 0.00498 U	0.0197 < 0.005 U	0.0102 < 0.00497 U	0.0106 J < 0.005 U	0.061 0.00521	0.00237 J < 0.00499 U
Naphthalene	91-20-3	mg/kg	0.0389	SL-6 SL-3	< 0.005 U	< 0.00498 U	0.00132 J	< 0.0249 U	 	< 0.00498 U	< 0.005 U	< 0.00497 U	< 0.005 U	0.00521 0.00307 J	< 0.00499 U
Phenanthrene	85-01-8	mg/kg	1.5	SL-8	< 0.005 U	0.00398 J	0.00152 3 0.00366 J	0.0117 J		< 0.00474 U	0.0124	0.00351 J	0.00378 J	0.0394	0.00203 J
Pyrene	129-00-0	mg/kg	2.6	SL-8	< 0.005 U	0.0028 J	0.0172	0.0399		0.0119	0.0241	0.0132	0.0145 J	0.0533	0.0029 J
Benz(a)anthracene	56-55-3	mg/kg			< 0.005 U	0.00091 J	0.0126	0.0181 J		0.00356 J	0.0112	0.00469 J	0.00579	0.0277	0.00141 J
Benzo(a)pyrene	50-32-8	mg/kg	0.00031	SL-3	< 0.005 U	0.00088 J	0.0627	0.0404		0.00587	0.0127	0.0077	0.00909 J	0.0307	0.00189 J
Benzo(b)fluoranthene	205-99-2	mg/kg			< 0.005 U	< 0.00498 U	0.107	0.0495		0.00574	0.0137	0.00676	0.00744	0.0305	0.00213 J
Benzo(j)fluoranthene Benzo(k)fluoranthene	205-82-3 207-08-9	mg/kg mg/ka			< 0.005 U < 0.005 U	< 0.00498 U < 0.00498 U	0.0443 0.0429	0.022 J 0.0184 J		0.00375 J 0.00332 J	0.00837 0.0067	0.00412 J 0.00331 J	0.00525 0.00466 J	0.0182 0.0178	0.00166 J 0.00126 J
Benzo(k)fluoranthene Chrysene	207-08-9 218-01-9	mg/kg mg/kg			< 0.005 U	< 0.00498 U 0.00167 J	0.0429	0.0184 J 0.0568		0.00332 J 0.00663	0.0067	0.00331 J 0.0067	0.00466 J 0.00739	0.0178	0.00126 J 0.00198 J
Dibenzo(a,h)anthracene	53-70-3	mg/kg			< 0.005 U	< 0.00167 J	0.0423	0.0568 0.0171 J	 	0.00663 0.0019 J	0.0159 0.00326 J	0.0067 0.00174 J	0.00739 0.00199 J	0.0413	0.00198 J 0.00149 J
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg			< 0.005 U	< 0.00498 U	0.0557	0.0703	-	0.0013 J	0.0125	0.00638	0.00749	0.0211	0.00143 J
Total Benzofluoranthenes	TOTBFA	mg/kg	3.2	SL-8	< 0.00999 U	< 0.00996 U	0.194	0.089		0.0128	0.0303	0.0154	0.0174	0.0687	0.00511 J
Total HPAHs	T-HPAH	mg/kg	12	SL-8	< 0.005 U	0.00851 J	0.475	0.480 J		0.0627 J	0.144 J	0.0700 J	0.0849 J	0.336	0.0208 J
Total LPAHs	T-LPAH	mg/kg	5.2	SL-8	< 0.005 U	0.00398 J	0.0145 J	0.0242 J		0.00173 J	0.0160 J	0.00351 J	0.00378 J	0.0627 J	0.00514 J

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	MW-15 03/03/2021 MW-15-0-1 0 - 1 ft	MW-15 03/03/2021 MW-15-3-5 3 - 5 ft	SB-02 10/01/2007 SB-02-1 1 - 3 ft	SB-11 09/28/2007 SB-11-2.5 2 - 4 ft	SB-12 09/28/2007 SB-12-1.5 2 - 4 ft	SB-13 10/01/2007 SB-13-1 1 - 3 ft	SB-13 10/01/2007 SB-13-3.5 4 - 6 ft	SB-14 10/01/2007 SB-14-3 3 - 5 ft	SB-15 10/01/2007 SB-15-3.5 4 - 6 ft	SB-16 10/01/2007 SB-16-3.5 4 - 6 ft	SB-18 07/27/2011 SB18-5.0-072711 5 - 5 ft
Analyte	CAS RN	Unit	SPM_RI_VADOSE- SOILS_SLS 2022.02	Screening Level Source	0-11t	3-3 ii	1-311	2-411	2-411	1-311	4-011	3-311	4-011	4-011	3-311
Metals															
Arsenic	7440-38-2	mg/kg	7.3	SL-10	3.24	1.47	1.5	6.7	7.2	1.7	1.3	2.3	4.5	9.4	
Cadmium	7440-43-9	mg/kg	0.77	SL-10	0.2	< 0.1 U	0.087	31.4	14.6	0.118	0.135	0.501	4.97	23.5	
Chromium	7440-47-3	mg/kg	48.2	SL-10	8.27	7.75	9	465	212	6.08	6.04	24.2	192	415	
Copper	7440-50-8	mg/kg	36.4	SL-10	20	8.39	8.9	198	111	8.71	8.02	9.72	69.6	132	
Lead	7439-92-1	mg/kg	50	SL-9	24.2 J	1.18 J	4.53	3100 J	1000 J	2.05	1.18	198	1030	3180	
Mercury	7439-97-6	mg/kg	0.07	SL-10	0.0183 J	0.00523 J	0.011	29.5	3.96	0.013	0.006	0.327	5.81	25.2	
Nickel	7440-02-0	mg/kg	48	SL-10	8.07	6.63		-				_			
Silver	7440-22-4	mg/kg	0.323	SL-3		-	0.052	0.299	0.191	0.056	0.038	0.064	0.136	0.23	
Zinc	7440-66-6	mg/kg	86	SL-9	93.1	17.9	20.3	1480	649	42.1	30.6	118	515	1510	
Butyl Tin Ions															
Dibutyltin Ion	14488-53-0	mg/kg			< 0.00578 U	< 0.00577 U									
Monobutyltin	78763-54-9	mg/kg			< 0.00408 U	< 0.00407 U									
Tetrabutyltin	1461-25-2	mg/kg			< 0.005 U	< 0.00499 U									
Tributyltin Ion	36643-28-4	mg/kg	0.0021	SL-8	< 0.00386 U	< 0.00385 U									
Polychlorinated Biphenyl Aroclors															
Aroclor 1016	12674-11-2	mg/kg			< 0.004 U	< 0.004 U	< 0.0099 U	< 1 U	< 0.099 U	< 0.0099 U	< 0.01 U	< 0.1 U	< 1 U	< 1 U	
Aroclor 1221	11104-28-2	mg/kg			< 0.004 U	< 0.004 U				-		-	-		
Aroclor 1232	11141-16-5	mg/kg			< 0.004 U	< 0.004 U		-					-		
Aroclor 1242	53469-21-9	mg/kg			< 0.004 U	< 0.004 U									
Aroclor 1248	12672-29-6	mg/kg			< 0.004 U	< 0.004 U	< 0.0099 U	< 1 U	< 0.099 U	< 0.0099 U	< 0.01 U	< 0.1 U	< 1 U	<1U	
Aroclor 1254	11097-69-1	mg/kg	ļ		0.0834	< 0.004 U	< 0.0099 U	29	4.9	< 0.0099 U	< 0.01 U	5.5	12	36	
Aroclor 1260	11096-82-5	mg/kg			0.0398	< 0.004 U	< 0.0099 U	< 1 U	< 0.099 U	0.0084	< 0.01 U	5.1	< 1 U	< 1 U	
Aroclor 1262	37324-23-5	mg/kg			< 0.004 U	< 0.004 U		-				_			
Aroclor 1268	11100-14-4	mg/kg			< 0.004 U	< 0.004 U		-							
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	1.1E-05	SL-3	0.137	< 0.004 U	< 0.0099 UJ	30.5 J	5.05 J	0.0233 J	< 0.01 UJ	10.7 J	13.5 J	37.5 J	
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3	0.123	< 0.004 U	< 0.0099 U	29	4.9	0.0084	< 0.01 U	10.6	12	36	
Aroclor 1016 (OC normalized)	12674-11-2-OC	mg/kg-OC											-		
Aroclor 1221 (OC normalized)	11104-28-2-OC	mg/kg-OC						-					-		
Aroclor 1232 (OC normalized)	11141-16-5-OC	mg/kg-OC			-			_		-			1	-	
Aroclor 1242 (OC normalized)	53469-21-9-OC	mg/kg-OC						-							
Aroclor 1248 (OC normalized)	12672-29-6-OC	mg/kg-OC						-					-		
Aroclor 1254 (OC normalized)	11097-69-1-OC	mg/kg-OC				-		-		-		-	-	-	
Aroclor 1260 (OC normalized)	11096-82-5-OC	mg/kg-OC						-							
Aroclor 1262 (OC normalized)	37324-23-5-OC	mg/kg-OC				-		-							
Aroclor 1268 (OC normalized)	11100-14-4-OC	mg/kg-OC				-		-		-		-	-	-	
Total PCBs (Sum of Aroclors) OC normalized	T-PCBs-OC	mg/kg-OC											-		
Polychlorinated Biphenyl Congeners															
Total PCB Congeners	T-PCBCong	mg/kg	1.1E-05	SL-3		-		-				_			
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	6.93E-09	SL-3		-									
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	6.93E-09	SL-3		-									
Dioxins/Furans															
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9		-		-					-		
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9		-							-		
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg	5.2E-06	SL-10		-							1	-	
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	mg/kg	5.2E-06	SL-10		_							-		
Polycyclic Aromatic Hydrocarbons	,														
1-Methylnaphthalene	90-12-0	mg/kg	34.5	SL-1	< 0.00499 U	< 0.00497 U									
2-Methylnaphthalene	91-57-6	mg/kg	0.67	SL-8	< 0.00499 U	< 0.00497 U	< 0.009 U	2	0.26	< 0.0093 U	< 0.0098 U	< 0.48 U	1.1	3	
Acenaphthene	83-32-9	mg/kg	0.5	SL-8	0.00071 J	0.001 J	< 0.009 U	0.25 J	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	
Acenaphthylene	208-96-8	mg/kg	1.3	SL-8	0.00168 J	< 0.00497 U	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	
Anthracene	120-12-7	mg/kg	0.96	SL-8	0.00182 J	< 0.00497 U	< 0.009 U	0.33	0.065 J	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	
Benzo(q,h,i)perylene	191-24-2	mg/kg	0.67	SL-8	0.0146	< 0.00497 U	< 0.009 U	< 0.25 U	0.13	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	
Fluoranthene	206-44-0	mg/kg	1.7	SL-8	0.0181	< 0.00497 U	< 0.009 U	0.46	0.12	< 0.0093 U	< 0.0098 U	< 0.48 U	0.3 J	0.5 J	
Fluorene	86-73-7	mg/kg	0.54	SL-8	< 0.00499 U	< 0.00497 U	< 0.009 U	< 0.25 U	0.064 J	< 0.0093 U	< 0.0098 U	< 0.48 U	0.39 J	0.67 J	
Naphthalene	91-20-3	mg/kg	0.0389	SL-3	< 0.00769 U	< 0.011 U	< 0.009 U	2.5	0.36	< 0.0093 U	< 0.0098 U	< 0.48 U	0.36 J	2.4	
Phenanthrene	85-01-8	mg/kg	1.5	SL-8	0.00793	< 0.00497 U	< 0.009 U	1.3	0.16	< 0.0093 U	< 0.0098 U	< 0.48 U	0.98 J	1.4	
Pyrene	129-00-0	mg/kg	2.6	SL-8	0.0177	< 0.00497 U	< 0.009 U	0.82	0.17	< 0.0093 U	< 0.0098 U	< 0.48 U	0.5 J	0.81 J	
Benz(a)anthracene	56-55-3	mg/kg		a	0.00895	< 0.00497 U	< 0.009 U	0.24 J	0.074 J	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	0.22 J	
Benzo(a)pyrene	50-32-8	mg/kg	0.00031	SL-3	0.0134	< 0.00497 U	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	
Benzo(b)fluoranthene	205-99-2	mg/kg			0.0158	< 0.00497 U	< 0.009 U	< 0.25 U	0.13	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	
Benzo(j)fluoranthene	205-82-3	mg/kg			0.00812	< 0.00497 U		-							
Benzo(k)fluoranthene	207-08-9	mg/kg			0.00766	< 0.00497 U	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	
Chrysene	218-01-9	mg/kg			0.0136	< 0.00497 U	< 0.009 U	0.49	0.17	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	0.39 J	-
Dibenzo(a,h)anthracene	53-70-3	mg/kg			0.00322 J	< 0.00497 U	< 0.009 U	< 0.25 U	< 0.099 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	L	a	0.0125	< 0.00497 U	< 0.009 U	< 0.25 U	0.1	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.99 U	< 0.92 U	
Total Benzofluoranthenes	TOTBFA	mg/kg	3.2	SL-8	0.0309	< 0.00993 U									
Total HPAHs	T-HPAH	mg/kg	12	SL-8	0.133 J	< 0.00993 U	< 0.009 U	2.01 J	0.894 J	< 0.0093 U	< 0.0098 U	< 0.48 U	0.800 J	1.92 J	
Total LPAHs	T-LPAH	mg/kg	5.2	SL-8	0.0121 J	0.00100 J	< 0.009 U	4.38 J	0.649 J	< 0.0093 U	< 0.0098 U	< 0.48 U	1.73 J	4.47 J	ı - I

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-20 07/27/2011 SB20-4.0-072711 4 - 4 ft	SB-23 07/28/2011 SB23-1.0-072811 1 - 1 ft	SB-26 03/04/2021 SB-26-0-1 0 - 1 ft	SB-26 03/03/2021 SB-26-4-5 4 - 5 ft	SB-27 03/09/2021 SB-27-0-1 0 - 1 ft	SB-27 03/09/2021 SB-27-3-5 3 - 5 ft	SB-28 03/01/2021 SB-28-0-1 0 - 1 ft	SB-28 03/01/2021 SB-28-3-5 3 - 5 ft	SB-29 03/01/2021 SB-29-0-1 0 - 1 ft	SB-29 03/01/2021 SB-29A-3-5 3 - 5 ft
Analyte	CAS RN	Unit	SPM_RI_VADOSE- SOILS_SLS 2022.02	Screening Level Source	7-71	1-11	V-III	4-011	V-III	0 - 0 II	0 - 1 K	0-0 K	V-III	0 - 0 K
Metals		- Olik		000,00							L			
Arsenic	7440-38-2	mg/kg	7.3	SL-10			4.77	1.43	5.43 J	2.18	4.68 J	2.02	4.28 J	3.14 J
Cadmium	7440-43-9	mg/kg	0.77	SL-10			5.09 J	0.16	0.25	0.04 J	0.32	0.04 J	0.27	0.05 J
Chromium	7440-47-3	mg/kg	48.2	SL-10			150 J	23.7	10.9	8.23	13.2	10.2	14.6	10.8
Copper Lead	7440-50-8 7439-92-1	mg/kg mg/kg	36.4 50	SL-10 SL-9			2470 J 1490 J	7.97	111 57.6 J	9.95	35.8 J 54.6 J	9.63 2.39	25.8 J 33.5 J	15.5 J 3.27 J
Mercury	7439-92-1	mg/kg	0.07	SL-10			11.5 J	23.9	0.0796 J	1.32	0.0472	2.39	0.025	0.0134 J
Nickel	7440-02-0	mg/kg	48	SL-10			35.7	6.77	13.8 J	6.75	13.3	7.99	17	10.4
Silver	7440-22-4	mg/kg	0.323	SL-3				-						
Zinc	7440-66-6	mg/kg	86	SL-9			771	85.7	77.9	18.6	75.5	24.2	60.8	27.7
Butyl Tin Ions						1	1		1	•			•	
Dibutyltin Ion	14488-53-0	mg/kg							0.617		0.0024 J		0.00893	< 0.00573 U
MonobutyItin TotrobutyItin	78763-54-9	mg/kg							0.243		< 0.00408 U		0.0471	< 0.00405 U
Tetrabutyltin Tributyltin Ion	1461-25-2 36643-28-4	mg/kg mg/kg	0.0021	SL-8					< 0.0497 U 1.12		< 0.005 U 0.00143 J		< 0.00497 U 0.00057 J	< 0.00496 U < 0.00383 U
Polychlorinated Biphenyl Aroclors	333.3-20-4	mg/ng	0.0021		-				1.12		0.001400		, v.v.v.v J	0.000000
Aroclor 1016	12674-11-2	mg/kg					< 1.39 U	-	< 0.0199 U		< 0.004 U		< 0.004 U	< 0.0039 U
Aroclor 1221	11104-28-2	mg/kg					< 1.39 U	-	< 0.0199 U	-	< 0.004 U		< 0.004 U	< 0.0039 U
Aroclor 1232	11141-16-5	mg/kg					< 1.39 U	-	< 0.0199 U	-	< 0.004 U		< 0.004 U	< 0.0039 U
Aroclor 1242	53469-21-9	mg/kg					< 1.39 U	-	< 0.0199 U		< 0.004 U		< 0.004 U	< 0.0039 U
Aroclor 1248	12672-29-6	mg/kg	-				< 1.39 UJ		< 0.0199 U		< 0.004 U		< 0.004 U	< 0.0039 U
Aroclor 1254 Aroclor 1260	11097-69-1 11096-82-5	mg/kg mg/kg	<u> </u>				36.7 6.77 J		0.0952 0.16		< 0.004 U 0.0521		< 0.004 U 0.0199	< 0.0039 U < 0.0039 U
Aroclor 1260	37324-23-5	mg/kg					< 1.39 U		< 0.0199 U		< 0.004 U		< 0.004 U	< 0.0039 U
Aroclor 1268	11100-14-4	mg/kg					< 1.39 U	-	< 0.0199 U		< 0.004 U		< 0.004 U	< 0.0039 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	1.1E-05	SL-3	-		48.3	-	0.325	-	0.0681	-	0.0359	< 0.0039 U
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3			43.5	-	0.255		0.0521	-	0.0199	< 0.0039 U
Aroclor 1016 (OC normalized)	12674-11-2-OC	mg/kg-OC						-						-
Aroclor 1221 (OC normalized)	11104-28-2-OC	mg/kg-OC						-						
Aroclor 1232 (OC normalized) Aroclor 1242 (OC normalized)	11141-16-5-OC 53469-21-9-OC	mg/kg-OC mg/kg-OC						-						
Aroclor 1242 (OC normalized) Aroclor 1248 (OC normalized)	12672-29-6-OC	mg/kg-OC												
Aroclor 1254 (OC normalized)	11097-69-1-OC	mg/kg-OC						-			-			
Aroclor 1260 (OC normalized)	11096-82-5-OC	mg/kg-OC									-			
Aroclor 1262 (OC normalized)	37324-23-5-OC	mg/kg-OC					-	-			-			-
Aroclor 1268 (OC normalized)	11100-14-4-OC T-PCBs-OC	mg/kg-OC						-		-				-
Total PCBs (Sum of Aroclors) OC normalized Polychlorinated Biphenyl Congeners	T-PCBs-OC	mg/kg-OC												
Total PCB Congeners	T-PCBCong	mg/kg	1.1F-05	SL-3			66.8	-						
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	6.93E-09	SL-3			0.00197	-			-			
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	6.93E-09	SL-3			0.00197	-			-			
Dioxins/Furans			•			1			1	•			•	
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9			0.00185 J							
Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0)	CDF TEQ-1/2U DF-TEQ-0U	mg/kg mg/kg	2E-06 5.2E-06	SL-9 SL-10			0.000692 J 0.00246 J	-						
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-1/2U	mg/kg	5.2E-06	SL-10			0.00255 J							-
Polycyclic Aromatic Hydrocarbons													•	
1-Methylnaphthalene	90-12-0	mg/kg	34.5	SL-1			0.0277	-	0.0125 J	-	< 0.005 U		< 0.005 U	< 0.00499 U
2-Methylnaphthalene	91-57-6	mg/kg	0.67	SL-8			0.0555 J	-	0.0125 J		< 0.005 U		< 0.005 U	< 0.00499 U
Acenaphthylone	83-32-9 208-96-8	mg/kg	0.5 1.3	SL-8 SL-8			0.0125 J		0.00433 J		< 0.005 U		< 0.005 U	< 0.00499 U < 0.00499 U
Acenaphthylene Anthracene	120-12-7	mg/kg mg/kg	0.96	SL-8			0.0632 0.127 J		< 0.0248 U 0.00743 J	-	0.00217 J 0.00262 J		0.00157 J 0.00232 J	< 0.00499 U
Benzo(g,h,i)perylene	191-24-2	mg/kg mg/kg	0.96	SL-8			0.127 J 0.516 J		0.00743 3		0.00262 3		0.0408	< 0.00499 U
Fluoranthene	206-44-0	mg/kg	1.7	SL-8			0.283 J	-	0.104		0.0161		0.0213	0.00122 J
Fluorene	86-73-7	mg/kg	0.54	SL-8			0.0285	-	0.0039 J	-	< 0.005 U		< 0.005 U	< 0.00499 U
Naphthalene	91-20-3	mg/kg	0.0389	SL-3			< 0.00524 UJ	-	< 0.00665 U		< 0.005 U	-	< 0.005 U	< 0.00499 U
Phenanthrene	85-01-8	mg/kg	1.5	SL-8			0.199 J	-	0.0433		0.0154		0.0101	0.00152 J
Pyrene Benz(a)anthracene	129-00-0 56-55-3	mg/kg mg/kg	2.6	SL-8			0.211 J 0.178 J		0.0905 0.0363		0.0214 0.0123		0.0284 0.0136	0.00098 J < 0.00499 U
Benzo(a)pyrene	50-32-8	mg/kg	0.00031	SL-3			0.178 J 0.276 J	-	0.0593	-	0.0123		0.0136	< 0.00499 U
Benzo(b)fluoranthene	205-99-2	mg/kg	0.00001	02.0			0.24 J	-	0.0803	-	0.0347		0.0259	< 0.00499 U
Benzo(i)fluoranthene	205-82-3	mg/kg					0.135 J	-	0.0369		0.0141		0.0136	< 0.00499 U
Benzo(k)fluoranthene	207-08-9	mg/kg					0.131 J	-	0.0281	-	0.0128		0.0122	< 0.00499 U
Chrysene	218-01-9	mg/kg					0.252 J	-	0.107		0.0329		0.0245	< 0.00499 U
Dibenzo(a,h)anthracene	53-70-3 193-39-5	mg/kg	-				0.0657	-	0.0107 J 0.0504		0.00566		0.00542	< 0.00499 U < 0.00499 U
Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes	TOTBFA	mg/kg mg/kg	3.2	SL-8			0.373 J 0.489 J	-	0.0504		0.0201 0.0603		0.0214 0.0529	< 0.00499 U
Total HPAHs	T-HPAH	mg/kg	12	SL-8			2.64 J		0.643 J		0.0003		0.0329	0.00220 J
Total LPAHs	T-LPAH	mg/kg	5.2	SL-8			0.430 J	-	0.0590 J	-	0.0264 J		0.0140 J	0.00152 J

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

			Loon Division	Location Date Sample Depth	SB-30 03/01/2021 SB-30-0-1 0 - 1 ft	SB-30 03/01/2021 SB-30A-3-5 3 - 5 ft	SB-31 03/01/2021 SB-31-0-1 0 - 1 ft	SB-31 03/01/2021 SB-31A-3-5 3 - 5 ft	SB-32 03/08/2021 SB-32-0-1 0 - 1 ft	SB-32 03/08/2021 SB-32-4-5 4 - 5 ft	SB-33 03/03/2021 SB-33-0-1 0 - 1 ft	SB-33 03/03/2021 SB-33-3-5 3 - 5 ft	SB-34 03/01/2021 SB-34-0-1 0 - 1 ft	SB-34 03/23/2021 SB-34R-0-1 0 - 1 ft	SB-34 03/01/2021 SB-34-3-4 3 - 4 ft
Analyte	CAS RN	Unit	SPM_RI_VADOSE- SOILS_SLS 2022.02	Screening Level Source											
Metals															
Arsenic	7440-38-2	mg/kg	7.3	SL-10	2.9 J	6.01 J	6.42 J	3.38 J	7.47	3.73	4.09	1.99	4.43	-	1.87
Cadmium	7440-43-9	mg/kg	0.77	SL-10	0.12	0.24	0.08 J	0.14	0.49	0.06 J	0.46	0.05 J	0.62		< 0.1 U
Chromium	7440-47-3	mg/kg	48.2	SL-10	25.1	9.83	16.2	17.2	12.2 J	12.7	9.99	11.6	11.3	-	6.93
Copper	7440-50-8	mg/kg	36.4	SL-10	19.9 J	19.5 J	37.4 J	19.7 J	50.2 J	25.2	51.5	11.8	25.5 J	-	8.97 J
Lead	7439-92-1 7439-97-6	mg/kg ma/ka	50 0.07	SL-9 SL-10	3.75 J 0.278	20.8 J 0.0234 J	6.25 J 0.0268	27.2 J 0.0194 J	30.7 J 0.0482	20.6 0.0334	41.3 J 0.0213 J	2.54 J	47.7 J 0.0093 J		1.31 J 0.00938 J
Mercury Nickel	7440-02-0	mg/kg mg/kg	48	SL-10 SL-10	38.5	10 10	22.9	20.2	13.7 J	11.4	13.2	0.00687 J 8.49	14.8		6.6
Silver	7440-02-0	mg/kg	0.323	SL-10	30.5		22.5	20.2	13.7 3	11.4	13.2	0.45	14.0		
Zinc	7440-66-6	mg/kg	86	SL-9	37.3	41.8	40.9	117	73.8 J	81.5	83.7	27.5	106		17.3
Butyl Tin Ions															
Dibutyltin Ion	14488-53-0	mg/kg							0.0472 J	< 0.00572 U	< 0.00575 U	< 0.00572 U			
Monobutyltin	78763-54-9	mg/kg				-			0.0308 J	< 0.00404 U	< 0.00406 U	< 0.00404 U	-	_	_
Tetrabutyltin	1461-25-2	mg/kg							< 0.005 U		< 0.00497 U	< 0.00495 U	-	-	_
Tributyltin Ion	36643-28-4	mg/kg	0.0021	SL-8					0.0667 J	< 0.00382 U	0.000964 J	0.00567	-		
Polychlorinated Biphenyl Aroclors															
Aroclor 1016	12674-11-2	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.0035 U	-	< 0.0035 U
Aroclor 1221	11104-28-2	mg/kg	1	-	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.0035 U	-	< 0.0035 U
Aroclor 1232	11141-16-5	mg/kg	 		< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.0035 U	 -	< 0.0035 U
Aroclor 1242 Aroclor 1248	53469-21-9 12672-29-6	mg/kg	-		< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	< 0.0399 U < 0.0399 U	< 0.004 U < 0.004 U	< 0.02 U < 0.02 U	< 0.004 U < 0.004 U	< 0.0035 U < 0.0035 U		< 0.0035 U < 0.0035 U
Aroclor 1248 Aroclor 1254	12672-29-6	mg/kg mg/kg	1		< 0.004 U	< 0.004 U	< 0.004 U 0.0045	< 0.004 U	< 0.0399 U	0.0109	< 0.02 U 0.271	< 0.004 U 0.0068	< 0.0035 U 0.038	+ -	< 0.0035 U 0.002 J
Aroclor 1260	11097-69-1	mg/kg			0.0033 J	0.0022 J	0.0045	0.0019 J	0.746 J	0.0109	0.467	0.008	0.0557		0.002 J 0.0007 J
Aroclor 1262	37324-23-5	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.004 U	< 0.02 U	< 0.004 U	< 0.0035 U		< 0.0035 U
Aroclor 1268	11100-14-4	mg/kg			< 0.001 U	< 0.001 U	< 0.004 U	< 0.004 U	< 0.0399 U	< 0.001 U	< 0.02 U	< 0.004 U	< 0.0035 U		< 0.0035 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	ma/ka	1.1E-05	SL-3	0.0193 J	0.0182 J	0.0431	0.0179 J	0.906 J	0.0380	0.808	0.0488	0.106	-	0.0150 J
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3	0.00330 J	0.00220 J	0.0291	0.00190 J	0.746 J	0.0240	0.738	0.0348	0.0937		0.00270 J
Aroclor 1016 (OC normalized)	12674-11-2-OC	mg/kg-OC				-				_		_	_	_	_
Aroclor 1221 (OC normalized)	11104-28-2-OC	mg/kg-OC								-			-	-	-
Aroclor 1232 (OC normalized)	11141-16-5-OC	mg/kg-OC				-				-			-	-	-
Aroclor 1242 (OC normalized)	53469-21-9-OC	mg/kg-OC				-			-		-		-		
Aroclor 1248 (OC normalized)	12672-29-6-OC	mg/kg-OC								-				-	
Aroclor 1254 (OC normalized)	11097-69-1-OC	mg/kg-OC				-				-	-		-	-	-
Aroclor 1260 (OC normalized)	11096-82-5-OC	mg/kg-OC				-					-		-		
Aroclor 1262 (OC normalized) Aroclor 1268 (OC normalized)	37324-23-5-OC	mg/kg-OC mg/kg-OC													
Arocior 1266 (OC normalized)		mg/kg-UC				-		-		-	-				
	11100-14-4-OC	malka OC													
Total PCBs (Sum of Aroclors) OC normalized	T-PCBs-OC	mg/kg-OC													
			1.1F-05	SI-3			0.0226		0.277		l		0.027	_ -	
Total PCBs (Sum of Aroclors) OC normalized Polychlorinated Biphenyl Congeners	T-PCBs-OC	mg/kg-OC mg/kg mg/kg	1.1E-05 6.93E-09	SL-3 SL-3	 	 	0.0226 0.00000705 J		0.277 0.0000424	- -			0.027 0.00000869 J		-
Total PCBs (Sum of Aroclors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners	T-PCBs-OC T-PCBCong	mg/kg													
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U	mg/kg mg/kg	6.93E-09 6.93E-09	SL-3 SL-3	 	 	0.000000705 J	 	0.00000424 0.00000424		 		0.000000869 J		-
Total PCBs (Sum of Aroclors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL)	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U	mg/kg mg/kq mg/kq mg/kq	6.93E-09 6.93E-09 2E-06	SL-3 SL-3 SL-9			0.000000705 J		0.00000424 0.00000424 0.0000146				0.000000869 J		_
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL)	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U CDF TEQ-1/2U	mg/kg mg/kg mg/kg mg/kg mg/kg	6.93E-09 6.93E-09 2E-06 2E-06	SL-3 SL-3 SL-9 SL-9		-	0.00000705 J 0.000000780 J 		0.00000424 0.00000424 0.0000146 0.0000110	-	 		0.000000869 J 0.000000945 J		
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL)	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U	mg/kg mg/kg mg/kg mg/kg mg/kg	6.93E-09 6.93E-09 2E-06 2E-06 5.2E-06	SL-3 SL-3 SL-9 SL-9 SL-10			0.000000705 J 0.000000780 J 		0.00000424 0.00000424 0.0000146 0.0000110 0.0000250				0.00000869 J 0.00000945 J 		
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDB TEQ (ND = 1/2 RDL) Total CDB TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL)	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U CDF TEQ-1/2U	mg/kg mg/kg mg/kg mg/kg mg/kg	6.93E-09 6.93E-09 2E-06 2E-06	SL-3 SL-3 SL-9 SL-9		-	0.00000705 J 0.000000780 J 		0.00000424 0.00000424 0.0000146 0.0000110	-	 		0.000000869 J 0.000000945 J		
Total PCBs (Sum of Arcotors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	mg/kg ma/kq mg/kq ma/ka mg/kg mg/kq	6.93E-09 6.93E-09 2E-06 2E-06 5.2E-06 5.2E-06	SL-3 SL-3 SL-9 SL-9 SL-10 SL-10			0.00000705 J 0.000000780 J 		0.0000424 0.00000424 0.0000146 0.0000110 0.0000250 0.0000256				0.00000869 J 0.000000945 J 		
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U PCB-TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0	mg/kg mg/ka mg/ka mg/ka mg/kg mg/kg mg/kg	6.93E-09 6.93E-09 2E-06 2E-06 5.2E-06 5.2E-06	SL-3 SL-3 SL-9 SL-9 SL-10 SL-10	 < 0.00498 U	 < 0.00498 U	 	 < 0.005 U	0.0000424 0.00000424 0.0000146 0.0000110 0.0000250 0.0000256	 < 0.005 U	 	 < 0.00499 U	0.00000869 J 0.000000945 J 0.0189		
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDF TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6	mg/kg mg/ka mg/ka mg/ka mg/ka mg/kg mg/kg mg/kg	6.93E-09 6.93E-09 2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67	SL-3 SL-3 SL-9 SL-9 SL-10 SL-10 SL-10	 < 0.00498 U < 0.00498 U	 < 0.00498 U < 0.00594 U		 < 0.005 U < 0.005 U	0.00000424 0.00000424 0.0000146 0.0000110 0.0000250 0.0000256 0.00553 0.0114	 < 0.005 U < 0.005 U	 < 0.015 U	 < 0.00499 U < 0.00499 U	0.00000869 J 0.00000945 J 		 0.00613 < 0.00456 U
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9	mg/kg mg/ka mg/ka mg/ka mg/ka mg/kg mg/kg mg/kg mg/kg	6.93E-09 6.93E-09 2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5	SL-3 SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-1 SL-1 SL-8 SL-8	 < 0.00498 U < 0.00498 U < 0.00498 U	 < 0.00498 U < 0.00594 U 0.0115		 < 0.005 U < 0.005 U < 0.005 U	0.0000424 0.0000146 0.0000110 0.0000250 0.000256 0.00553 0.0114 0.00183 J	 < 0.005 U < 0.005 U < 0.005 U		 < 0.00499 U < 0.00499 U < 0.00499 U	0.00000869 J 0.00000945 J 		
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8	mg/kg mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka	6.93E-09 6.93E-09 2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5	SL-3 SL-9 SL-9 SL-10 SL-10 SL-10 SL-10 SL-18 SL-8 SL-8 SL-8		 < 0.00498 U < 0.00594 U 0.0115 0.0029 J			0.0000424 0.00000424 0.0000146 0.0000110 0.0000250 0.000256 0.00553 0.0114 0.00183 J 0.00299 J	 		 < 0.00499 U < 0.00499 U < 0.00499 U 0.00122 J	0.00000869 J 0.00000945 J 		 0.00613 < 0.00456 U
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9	mg/kg ma/ka ma/ka ma/ka ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6.93E-09 6.93E-09 2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5	SL-3 SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-1 SL-1 SL-8 SL-8	 	 			0.0000424 0.0000424 0.0000146 0.0000110 0.0000250 0.000256 0.00114 0.00183 J 0.00299 J 0.00241 J	 < 0.005 U < 0.005 U < 0.005 U			0.00000869 J 0.00000945 J 		
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7	mg/kg mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka	6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96	SL-3 SL-9 SL-9 SL-10 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8		 < 0.00498 U < 0.00594 U 0.0115 0.0029 J			0.0000424 0.00000424 0.0000146 0.0000110 0.0000250 0.000256 0.00553 0.0114 0.00183 J 0.00299 J	 		 < 0.00499 U < 0.00499 U < 0.00499 U 0.00122 J	0.00000869 J 0.00000945 J 		
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Total PCB TEQ (ND = 1/2 RDL) Total PCB TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Action Text (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Action Text (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL)	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2	mg/kg mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka	6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7	SL-3 SL-9 SL-9 SL-10 SL-10 SL-10 SL-18 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8					0.0000424 0.0000424 0.0000146 0.0000110 0.0000250 0.0000255 0.0114 0.00183 J 0.00299 J 0.00241 J 0.00241 J			 	0.00000869 J 0.00000945 J 		
Total PCBs (Sum of Arcolors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(a h.i)perylene Fluoranthene Fluorene Naphthalene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3	mg/kg mg/ka	6.93E-09 6.93E-09 6.93E-09 2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54	SL-3 SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8	 		0.00000705 J	<0.005 U <0.005 U <0.005 U <0.005 U <0.005 U 0.00125 J 0.00937 <0.005 U <0.005 U	0.0000424 0.0000424 0.0000146 0.0000110 0.0000150 0.0000256 0.00153 0.0114 0.00183 J 0.00299 J 0.00241 J 0.00276 J 0.00276 J 0.00276 J	 	 	 	0.00000869 J 0.00000945 J 		
Total PCBs (Sum of Aroctors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 10) Total Dioxin/Furan TEQ (ND = 10) Total Dioxin/Furan TEQ (ND = 10) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthene Benzo(d,h,l)perylene Fluoranthene Fluorene Naphthalene Phenanthrene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDF TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8	mg/kg ma/ka ma/ka ma/ka ma/ka mg/kg ma/ka mg/kg ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 3.4.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389	SL-3 SL-9 SL-9 SL-10 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8	 < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U 		0.00000705 J 0.00000780 J 		0.0000424 0.0000424 0.0000146 0.0000110 0.0000250 0.000553 0.0114 0.00299 J 0.00236 J 0.00236 J 0.00276 J 0.00822 0.00822	<pre></pre>	 	 	0.00000889 J 0.000000945 J 		
Total PCBs (Sum of Arcolors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Benzo(a,b.)perylene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Naphthalene Phenanthrene Phenanthrene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U CDF TEQ-1/2U DF-TEC-1/2U DF-TEC-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0	mg/kg mg/ka	6.93E-09 6.93E-09 6.93E-09 2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54	SL-3 SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8				 	0.0000424 0.0000424 0.0000146 0.0000150 0.0000250 0.000256 0.00553 0.0114 0.0183 J 0.00299 J 0.0226 J 0.0201 J 0.0026 J 0.00822 0.0182 J 0.00822		 	 	0.00000869 J 0.00000945 J 		
Total PCBs (Sum of Arcolors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Berzo(a,h.l)perylene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Berzo(a) Berz(a) annthracene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U PCB-TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3	mg/kg ma/ka ma/ka ma/ka ma/ka ma/ka mg/kg	6.93E-09 6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 5.2E-06 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-3 SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8			0.00000705 J 0.00000780 J		0.0000424 0.0000424 0.0000146 0.0000110 0.0000250 0.000255 0.0114 0.00183 J 0.0029 J 0.0026 J 0.00276 J 0.00276 J 0.0022 O 0.0082 J 0.0082 J 0.0082 J 0.0082 J	- 0.005 U			0.00000869 J 0.00000945 J		
Total PCBs (Sum of Arcciors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(a, h, i)perylene Fluoranthene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)anthracene Benzo(a)anthracene Benzo(a)pyrene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	mg/kg mg/ka mg/ka mg/ka mg/ka mg/ka mg/kg	6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 3.4.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389	SL-3 SL-9 SL-9 SL-10 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8	 		0.00000705 J 0.00000780 J		0.0000424 0.00000424 0.0000146 0.0000110 0.0000150 0.000256 0.00553 0.0114 0.00299 J 0.00294 J 0.0026 J 0.00276 J 0.00276 J 0.00276 J 0.00282 0.0035 J		 		0.00000889 J 0.00000945 J 		
Total PCBs (Sum of Arcolors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Benzo(a h.i)perylene Fluoranthene Fluoranthene Fluorene Benzo(a h.i)perylene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	mg/kg mg/kg	6.93E-09 6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 5.2E-06 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-3 SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8			0.00000705 J 0.00000780 J 0.00000780 J		0.0000424 0.0000424 0.0000146 0.0000110 0.0000250 0.0000250 0.00114 0.00183 J 0.0029 J 0.0026 J 0.00276 J 0.00276 J 0.00276 J 0.0036 J 0.0022 0.0036 J 0.0128 J 0.0128 J 0.0128 J	- 0.005 U			0.00000869 J 0.00000945 J		
Total PCBs (Sum of Arcolors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthene Benzo(a,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a) Augusta Polycycle Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(b) B	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U PCB-TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-99-2	mg/kg ma/ka	6.93E-09 6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 5.2E-06 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-3 SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8			0.00000705 J 0.00000780 J		0.0000424 0.00000424 0.0000146 0.0000110 0.0000250 0.000553 0.0114 0.0029 J 0.0029 J 0.00276 J 0.00276 J 0.0022 0.0182 J 0.0128 J 0.0182 J 0.0182 J 0.0182 J			 	0.00000889 J 0.000000945 J		
Total PCBs (Sum of Arcolors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Benzo(a,h,i)perylene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Benzo(a) B	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-92-2 205-82-3 207-08-9	mg/kg mg/ka mg/ka mg/ka mg/ka mg/ka mg/kg mg/kg mg/kg mg/kg mg/ka	6.93E-09 6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 5.2E-06 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-3 SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8	 	- 0.00498 U < 0.00594 U - 0.00594 U - 0.0115 - 0.0129 U - 0.0138 - 0.0759 - 0.097 - 0.00633 - 0.00799 - 0.0665 - 0.114 - 0.0543 - 0.0545 - 0.055 - 0.055 - 0.055 - 0.055 - 0.055 - 0.055 - 0.055 - 0.055 - 0.055	0.00000705 J 0.00000780 J		0.0000424 0.00000424 0.0000146 0.0000110 0.0000150 0.000256 0.00553 0.0114 0.0029 J 0.0236 J 0.0201 J 0.00276 J 0.00276 J 0.0022 0.00822 0.0036 0.0182 J 0.0183 J 0.022 0.00825	- 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.000 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U		 	0.00000889 J 0.00000945 J		
Total PCBs (Sum of Arcolors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthene Benzo(a,h.i)perylene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-0U PCB-TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-89-2 205-82-3 207-08-9 218-01-9	mg/kg ma/ka ma/ka ma/ka ma/ka ma/ka ma/ka mg/kg ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/kg	6.93E-09 6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 5.2E-06 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-3 SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8			0.00000705 J 0.00000780 J		0.0000424 0.0000424 0.0000146 0.0000110 0.0000150 0.000250 0.00053 0.0114 0.00183 J 0.0029 J 0.00261 0.00276 J 0.00276 J 0.0022 0.0182 J 0.0128 J 0.0128 J 0.0183 J 0.0088 J 0.00886 J 0.00886 J 0.00886 J 0.00886 J 0.00886 J				0.00000889 J 0.00000945 J		
Total PCBs (Sum of Arcolors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(a,h,)perylene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Pyrene Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(b) Fluoranthene Benzo(b) Fluoranthene Benzo(k) Fluoranthene Benzo(k) Fluoranthene Benzo(k) Fluoranthene Benzo(k) Fluoranthene Benzo(k) Benzo(a) Benzo(a) Benzo(a) Benzo(b) Benzo(a) Benzo(a) Benzo(b) Benzo(a	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-0U PCB-TEQ-1/2U CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9 218-01-9	mg/kg mg/ka mg/ka mg/ka mg/ka mg/ka mg/kg mg/kg mg/kg mg/kg mg/ka	6.93E-09 6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 5.2E-06 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-3 SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8		 - 0.00498 U < 0.00594 U < 0.00594 U < 0.0115 0.0115 0.0129 J 0.0789 0.097 0.0663 0.0799 0.0663 0.114 0.0543 0.0718 0.0718 0.0718 0.0718 0.0718 0.0719 0.067 0.067 0.067 0.067 0.067 0.013 			0.0000424 0.0000146 0.0000146 0.0000110 0.0000250 0.000255 0.0053 0.0114 0.0029 J 0.0029 J 0.00276 J 0.00276 J 0.0022 0.0183 J 0.0021 J 0.0021 J 0.0022 J 0.0182 J 0.0022 J 0.0036 J 0.0183 J	- 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U < 0.005 U			0.00000889 J 0.00000945 J		
Total PCBs (Sum of Arcolors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthene Benzo(a,h.i)perylene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-0U PCB-TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-89-2 205-82-3 207-08-9 218-01-9	mg/kg mg/kg	6.93E-09 6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 5.2E-06 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-3 SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8					0.0000424 0.0000424 0.0000424 0.0000146 0.0000110 0.000250 0.000256 0.0114 0.00183 J 0.0029 J 0.00236 J 0.00216 J 0.00276 J 0.00276 J 0.0022 J 0.0036 J 0.0183 J 0.0183 J 0.00385 J				0.00000869 J 0.00000945 J 0.00000945 J 0.0189 0.0207 0.00564 0.0122 0.0167 0.0603 0.115 0.0109 0.021 0.13 0.156 0.0507 0.0678 0.0459 0.0309 0.02257 0.0731 0.0103 0.0103		
Total PCBs (Sum of Arcolors) OC normalized Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Benzo(a, h.)pervlene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Chrysene Dibenzo(a, h)anthracene Indeno(1, 2,3-cd)pyrene	T-PCBs-OC T-PCBCong PCB-TEQ-0U PCB-TEQ-0U PCB-TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 191-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9 218-01-9 53-70-3 193-39-5	mg/kg mg/ka mg/ka mg/ka mg/ka mg/ka mg/kg mg/kg mg/kg mg/kg mg/ka	6.93E-09 6.93E-09 6.93E-09 2E-06 5.2E-06 5.2E-06 5.2E-06 1.3 0.96 0.67 0.5 1.3 0.96 0.67 0.5 2.6 0.00031	SL-3 SL-9 SL-9 SL-9 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8		 - 0.00498 U < 0.00594 U < 0.00594 U < 0.0115 0.0115 0.0129 J 0.0789 0.097 0.0663 0.0799 0.0663 0.114 0.0543 0.0718 0.0718 0.0718 0.0718 0.0718 0.0719 0.067 0.067 0.067 0.067 0.067 0.013 			0.0000424 0.0000146 0.0000146 0.0000110 0.0000250 0.000255 0.0053 0.0114 0.0029 J 0.0029 J 0.00276 J 0.00276 J 0.0022 0.0183 J 0.0021 J 0.0021 J 0.0022 J 0.0182 J 0.0022 J 0.0036 J 0.0183 J				0.00000889 J 0.00000945 J		

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-34 03/23/2021 SB-34R-3-4 3 - 4 ft	SS-01 02/09/2016 SPM-SS-01-02092016 0 - 1.6 ft	SS-02 02/09/2016 SPM-SS-02-02092016 0 - 1.6 ft	SS-03 02/09/2016 SPM-SS-03-02092016 0 - 1.6 ft	SS-04 02/10/2016 SPM-SS-04-02102016 0 - 1.6 ft	SS-05 02/10/2016 SPM-SS-05-02102016 0 - 1.6 ft	SS-06 02/10/2016 SPM-SS-06-02102016 0 - 1.6 ft
			SPM_RI_VADOSE- SOILS_SLS	Screening Level	3-411	0 - 1.6 π	υ - 1.6 π	0 - 1.6 π	0 - 1.6 π	υ-1.6π	0 - 1.6 ft
Analyte Metals	CAS_RN	Unit	2022.02	Source							
Arsenic	7440-38-2	malka	7.3	SL-10		ı		1	1	ı	
Cadmium	7440-38-2	mg/kg	0.77	SL-10			-				-
Chromium	7440-43-9	mg/kg mg/kg	48.2	SL-10							-
Copper	7440-50-8	mg/kg	36.4	SL-10							
Lead	7439-92-1	mg/kg	50	SL-9		_	_				_
Mercury	7439-97-6	mg/kg	0.07	SL-10		_	_	_			_
Nickel	7440-02-0	mg/kg	48	SL-10		-	-				-
Silver	7440-22-4	mg/kg	0.323	SL-3		_	_	_			_
Zinc	7440-66-6	mg/kg	86	SL-9		-					-
Butyl Tin Ions											
Dibutyltin Ion	14488-53-0	mg/kg									
Monobutyltin	78763-54-9	mg/kg				-	-				-
Tetrabutyltin	1461-25-2	mg/kg	0.0004	01.0							
Tributyltin Ion Polychlorinated Biphenyl Aroclors	36643-28-4	mg/kg	0.0021	SL-8				-			-
	12674-11-2	malka	T	ı		< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1016 Aroclor 1221	12674-11-2 11104-28-2	mg/kg mg/kg	+	-		< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	< 0.08 U < 0.08 U	< 0.08 U < 0.08 U	< 0.08 U < 0.08 U
Aroclor 1221 Aroclor 1232	11104-28-2	mg/kg mg/kq	1			< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1232 Aroclor 1242	53469-21-9	mg/kg mg/kg	 			< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1242 Aroclor 1248	12672-29-6	mg/kg				< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1254	11097-69-1	mg/kg				< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1260	11096-82-5	mg/kg				0.0075	0.014	0.094	0.21	0.82	< 0.08 U
Aroclor 1262	37324-23-5	mg/kg				< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Aroclor 1268	11100-14-4	mg/kg				< 0.004 U	< 0.004 U	< 0.004 U	< 0.08 U	< 0.08 U	< 0.08 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	1.1E-05	SL-3		0.0235	0.0300	0.110	0.530	1.14	< 0.08 U
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3		0.0075	0.014	0.094	0.21	0.82	< 0.08 U
Aroclor 1016 (OC normalized)	12674-11-2-OC	mg/kg-OC				< 1.951219512 U	< 1.146131805 U	< 0.760456274 U	< 14.285714286 U	< 16.129032258 U	< 28.985507246 U
Aroclor 1221 (OC normalized)	11104-28-2-OC	mg/kg-OC				< 1.951219512 U	< 1.146131805 U	< 0.760456274 U	< 14.285714286 U	< 16.129032258 U	< 28.985507246 U
Aroclor 1232 (OC normalized)	11141-16-5-OC	mg/kg-OC				< 1.951219512 U	< 1.146131805 U	< 0.760456274 U	< 14.285714286 U	< 16.129032258 U	< 28.985507246 U
Aroclor 1242 (OC normalized)	53469-21-9-OC	mg/kg-OC				< 1.951219512 U	< 1.146131805 U	< 0.760456274 U	< 14.285714286 U	< 16.129032258 U	< 28.985507246 U
Aroclor 1248 (OC normalized)	12672-29-6-OC	mg/kg-OC				< 1.951219512 U	< 1.146131805 U	< 0.760456274 U	< 14.285714286 U	< 16.129032258 U	< 28.985507246 U
Aroclor 1254 (OC normalized)	11097-69-1-OC	mg/kg-OC				< 1.951219512 U	< 1.146131805 U	< 0.760456274 U	< 14.285714286 U	< 16.129032258 U	< 28.985507246 U
Aroclor 1260 (OC normalized) Aroclor 1262 (OC normalized)	11096-82-5-OC 37324-23-5-OC	mg/kg-OC mg/kg-OC				3.658536585 < 1.951219512 U	4.011461318 < 1.146131805 U	17.870722433 < 0.760456274 U	37.5 < 14.285714286 U	165.322580645 < 16.129032258 U	< 28.985507246 U < 28.985507246 U
Aroclor 1262 (OC normalized) Aroclor 1268 (OC normalized)	11100-14-4-OC	mg/kg-OC				< 1.951219512 U	< 1.146131805 U	< 0.760456274 U	< 14.285714286 U	< 16.129032258 U	< 28.985507246 U
Total PCBs (Sum of Aroclors) OC normalized	T-PCBs-OC	mg/kg-OC				3.658536585	4.011461318	17.870722433	37.5	165.322580645	< 28.985507246 U
Polychlorinated Biphenyl Congeners	1-1 CD3-OC	mg/kg-oc	1			3.030330303	4.011401310	17.070722433	57.5	103.322300043	~ 20.303301240 O
Total PCB Congeners	T-PCBCona	ma/ka	1.1E-05	SL-3		0.0206	0.0308	0.124	0.221	0.596	0.0184
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	6.93E-09	SL-3		0.000000754 J	0.000000910 J	0.00000255 J	0.00000770 J	0.00000635 J	0.000000575 J
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	6.93E-09	SL-3		0.000000830 J	0.00000100 J	0.00000255 J	0.00000770 J	0.00000635 J	0.000000575 J
Dioxins/Furans											
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9							-
Total CDF TEQ (ND = 1/2 RDL)	CDF_TEQ-1/2U	mg/kg	2E-06	SL-9		-	-	-			-
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg	5.2E-06	SL-10							-
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	mg/kg	5.2E-06	SL-10		-					
Polycyclic Aromatic Hydrocarbons	00.40.0		24.5	C) 4		ı		ı	ı	ı	
1-Methylnaphthalene 2-Methylnaphthalene	90-12-0 91-57-6	mg/kg	34.5 0.67	SL-1 SL-8							-
2-Metnyinaphthalene Acenaphthene	91-57-6 83-32-9	mg/kg mg/kg	0.67	SL-8 SL-8		-	-	-			-
Acenaphthylene	83-32-9 208-96-8	mg/kg mg/kg	1.3	SL-8 SL-8			_				
Anthracene	120-12-7	mg/kg	0.96	SL-8			-	-			-
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.67	SL-8							
Fluoranthene	206-44-0	mg/kg	1.7	SL-8							
Fluorene	86-73-7	mg/kg	0.54	SL-8							
Naphthalene	91-20-3	mg/kg	0.0389	SL-3	< 0.00522 U						
Phenanthrene		mg/kg	1.5	SL-8			-				-
i nonantilicio	85-01-8	mg/kg		SL-8							
Pyrene	85-01-8 129-00-0	mg/kg	2.6								
	129-00-0 56-55-3						-	-			-
Pyrene Benz(a)anthracene Benzo(a)pyrene	129-00-0 56-55-3 50-32-8	mg/kg mg/kg mg/kg	2.6 0.00031	SL-3							-
Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	129-00-0 56-55-3 50-32-8 205-99-2	mg/kg mg/kg mg/kg mg/kg									
Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene	129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	mg/kg mg/kg mg/kg mg/kg mg/kg									
Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene	129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9	mg/kg ma/ka mg/kg mg/kg ma/ka mg/kg					-				
Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(f)fluoranthene Benzo(k)fluoranthene Chrysene	129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9 218-01-9	mg/kg mg/kq mg/kg mg/kg mg/kg mg/kg mg/kg					-				
Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(h)fluoranthene Benzo(h)fluoranthene Chrysene Dibenzo(a, h)anthracene	129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9 218-01-9 53-70-3	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg			 		-			 	
Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(f)fluoranthene Benzo(f)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9 218-01-9 53-70-3 193-39-5	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00031	SL-3	 						
Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a, h)anthracene Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes	129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00031	SL-3	 		-			 	
Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9 218-01-9 53-70-3 193-39-5	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00031	SL-3	 						

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SS-07 02/09/2016 SPM-SS-07-02092016 0 - 1.6 ft	SS-08 02/09/2016 SPM-SS-08-02092016 0 - 1.6 ft	SS-09 02/10/2016 SPM-SS-09-02102016 0 - 1.6 ft	SS-10 02/10/2016 SPM-SS-10-02102016 0 - 1.6 ft	SS-11 02/10/2016 SPM-SS-11-02102016 0 - 1.6 ft	SS-12 02/09/2016 SPM-SS-12-02092016 0 - 1.6 ft
			SPM_RI_VADOSE- SOILS_SLS	Screening Level	0 - 1.6 It	0 - 1.6 It	0 - 1.6 it	0 - 1. 0 It	0 - 1. 0 it	0 - 1.6 11
Analyte	CAS RN	Unit	2022.02	Source						<u> </u>
Metals	7440-38-2	mg/kg	7.3	SL-10					l	
Arsenic Cadmium	7440-43-9	mg/kg mg/kg	0.77	SL-10 SL-10		-		-		-
Chromium	7440-43-9	mg/kg	48.2	SL-10 SL-10		-		-		-
Copper	7440-50-8	mg/kg	36.4	SL-10				-		
Lead	7439-92-1	mg/kg	50	SL-9		-		_		
Mercury	7439-97-6	mg/kg	0.07	SL-10		-		-		-
Nickel	7440-02-0	mg/kg	48	SL-10		-		-		-
Silver	7440-22-4	mg/kg	0.323	SL-3		-		-		-
Zinc	7440-66-6	mg/kg	86	SL-9		-		-		<u></u>
Butyl Tin Ions	11100 =0.0	"								
Dibutyltin Ion	14488-53-0	mg/kg				-		-	-	-
MonobutyItin	78763-54-9 1461-25-2	mg/kg				-		-		-
Tetrabutyltin Tributyltin Ion	36643-28-4	mg/kg mg/kg	0.0021	SL-8		-				
Polychlorinated Biphenyl Aroclors	30043-20-4	IIIg/kg	0.0021	JL-0		-		-		
Aroclor 1016	12674-11-2	mg/kg			< 0.004 U					
Aroclor 1221	11104-28-2	mg/kg			< 0.004 U					
Aroclor 1232	11141-16-5	mg/kg			< 0.004 U					
Aroclor 1242	53469-21-9	mg/kg			< 0.004 U					
Aroclor 1248	12672-29-6	mg/kg			< 0.004 U					
Aroclor 1254	11097-69-1	mg/kg			< 0.004 U					
Aroclor 1260	11096-82-5	mg/kg			0.0048	0.0715	0.05	< 0.004 U	0.019	0.017
Aroclor 1262	37324-23-5	mg/kg			< 0.004 U					
Aroclor 1268	11100-14-4	mg/kg			< 0.004 U					
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	1.1E-05	SL-3	0.0208	0.0875	0.0660	< 0.004 U	0.0350	0.0330
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3	0.0048	0.0715	0.05	< 0.004 U	0.019	0.017
Aroclor 1016 (OC normalized) Aroclor 1221 (OC normalized)	12674-11-2-OC 11104-28-2-OC	mg/kg-OC			< 1.834862385 U < 1.834862385 U	< 1.058201058 U < 1.058201058 U	< 1.092896175 U < 1.092896175 U	< 6.220839813 U < 6.220839813 U	< 1.18694362 U < 1.18694362 U	< 0.377358491 U < 0.377358491 U
Aroclor 1221 (OC normalized) Aroclor 1232 (OC normalized)	11141-16-5-OC	mg/kg-OC mg/kg-OC			< 1.834862385 U	< 1.058201058 U	< 1.092896175 U	< 6.220839813 U	< 1.18694362 U	< 0.377358491 U
Aroclor 1242 (OC normalized)	53469-21-9-OC	mg/kg-OC			< 1.834862385 U	< 1.058201058 U	< 1.092896175 U	< 6.220839813 U	< 1.18694362 U	< 0.377358491 U
Aroclor 1248 (OC normalized)	12672-29-6-OC	mg/kg-OC			< 1.834862385 U	< 1.058201058 U	< 1.092896175 U	< 6.220839813 U	< 1.18694362 U	< 0.377358491 U
Aroclor 1254 (OC normalized)	11097-69-1-OC	mg/kg-OC			< 1.834862385 U	< 1.058201058 U	< 1.092896175 U	< 6.220839813 U	< 1.18694362 U	< 0.377358491 U
Aroclor 1260 (OC normalized)	11096-82-5-OC	mg/kg-OC			2.201834862	19.1082756	13.661202186	< 6.220839813 U	5.637982196	1.603773585
Aroclor 1262 (OC normalized)	37324-23-5-OC	mg/kg-OC			< 1.834862385 U	< 1.058201058 U	< 1.092896175 U	< 6.220839813 U	< 1.18694362 U	< 0.377358491 U
Aroclor 1268 (OC normalized)	11100-14-4-OC	mg/kg-OC			< 1.834862385 U	< 1.058201058 U	< 1.092896175 U	< 6.220839813 U	< 1.18694362 U	< 0.377358491 U
Total PCBs (Sum of Aroclors) OC normalized	T-PCBs-OC	mg/kg-OC			2.201834862	19.1082756	13.661202186	< 6.220839813 U	5.637982196	1.603773585
Polychlorinated Biphenyl Congeners						1			T .	
Total PCB Congeners	T-PCBCong	mg/kg	1.1E-05	SL-3	0.00586	0.0818	0.0544	0.00482	0.0257	0.00638
Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-0U PCB-TEQ-1/2U	mg/kg	6.93E-09 6.93E-09	SL-3 SL-3	0.000000294 J	0.00000291	0.00000180 J	0.000000149 J	0.000000560 J	0.000000279 J
Dioxins/Furans	PCB-1EQ-1/20	mg/kg	6.93E-09	SL-3	0.000000294 J	0.00000296	0.00000180 J	0.000000206 J	0.000000632 J	0.000000296 J
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9		I			I	
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9				-		
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg	5.2E-06	SL-10		_		_		
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	mg/kg	5.2E-06	SL-10		-		-		
Polycyclic Aromatic Hydrocarbons										
1-Methylnaphthalene	90-12-0	mg/kg	34.5	SL-1		-		-		-
2-Methylnaphthalene	91-57-6	mg/kg	0.67	SL-8				-	-	-
Acenaphthene	83-32-9	mg/kg	0.5	SL-8		-	-	-	-	-
Acenaphthylene	208-96-8	mg/kg	1.3	SL-8		-		-		
Anthracene	120-12-7	mg/kg	0.96	SL-8		-				
Benzo(q,h,i)perylene	191-24-2 206-44-0	mg/kg	0.67	SL-8 SL-8		-		-		
Fluoranthene	206-44-0 86-73-7	mg/kg	1.7 0.54	SL-8 SL-8		-				
Fluorene Naphthalene	91-20-3	mg/kg mg/kg	0.0389	SL-3	-			-		-
Phenanthrene	85-01-8	mg/kg	1.5	SL-8						
Pyrene	129-00-0	mg/kg	2.6	SL-8		-				-
Benz(a)anthracene	56-55-3	mg/kg				_		-		
Benzo(a)pyrene	50-32-8	mg/kg	0.00031	SL-3			-	-	-	_
Benzo(b)fluoranthene	205-99-2	mg/kg				-		_		-
Benzo(j)fluoranthene	205-82-3	mg/kg				-		-		-
Benzo(k)fluoranthene	207-08-9	mg/kg				-		-		
Chrysene	218-01-9	mg/kg				-	-	-	-	-
Dibenzo(a,h)anthracene	53-70-3	mg/kg				-		-		-
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	2.0	01.0		-		-		
Total Benzofluoranthenes	TOTBFA T-HPAH	mg/kg	3.2	SL-8		-				-
Total HPAHs Total LPAHs	T-HPAH T-LPAH	mg/kg mg/kg	12 5.2	SL-8 SL-8		- -		-	-	
TOTAL LEARIS	I-LPAH	mg/kg	5.2	SL-0	ı	-		-	ı -	1

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

			Location Date Sample Depth						SS-18 02/10/2016 SPM-SS-18-02102016 0 - 1.6 ft
CAS PN	Unit	SPM_RI_VADOSE- SOILS_SLS	Screening Level						
CAS_KN	Offic	_2022.02	Source						
7440-38-2	mg/kg	7.3	SL-10				-		-
7440-43-9	mg/kg	0.77	SL-10				_	_	_
7440-47-3	mg/kg	48.2	SL-10		-		-	-	-
	mg/kg	36.4				-	-	-	-
	mg/kg	50					-	-	-
	mg/kg						-		-
7440-02-0								-	-
7440-22-4							-	-	-
7440-66-6	mg/kg	86	SL-9		-		-		-
14400 52.0		_			1				
									-
		-			_				-
		0.0021	SI -8						-
30040-20-4	mg/ng	0.0021	OL-O			-		_	
12674-11-2	ma/ka			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
11104-28-2	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
11141-16-5	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
53469-21-9	mg/kg	1		< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
12672-29-6	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
11097-69-1	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
11096-82-5	mg/kg			0.061	0.027	0.052	0.36	< 0.004 U	0.25
	mg/kg								< 0.004 U
	mg/kg								< 0.004 U
									0.266
		1.1E-05	SL-3						0.25
									< 0.275862069 U
									< 0.275862069 U
									< 0.275862069 U
		 							< 0.275862069 U < 0.275862069 U
		 							< 0.275862069 U
		 							17.24137931
									< 0.275862069 U
									< 0.275862069 U
		1							17.24137931
T-PCBCong	mg/kg	1.1E-05	SL-3	0.0164	0.0275	0.0736	0.107	0.00496	0.369
PCB-TEQ-0U	mg/kg	6.93E-09	SL-3	0.000000470	0.00000125 J	0.00000356 J	0.00000321 J		0.0000102 J
PCB-TEQ-1/2U	mg/kg	6.93E-09							
	шулу	0.93⊑-09	SL-3	0.000000470	0.00000127 J	0.00000356 J	0.00000321 J	0.0000000116 J	0.0000102 J
				0.000000470	0.00000127 J	0.00000356 J	0.00000321 J		0.0000102 J
CDD TEQ-1/2U	mg/kg	2E-06	SL-9					0.000000116 J 	
CDF TEQ-1/2U	mg/kg mg/kg	2E-06 2E-06	SL-9 SL-9				 	0.000000116 J 	
CDF TEQ-1/2U DF-TEQ-0U	mg/kg mg/kg mg/kg	2E-06 2E-06 5.2E-06	SL-9 SL-9 SL-10					0.000000116 J 	
CDF TEQ-1/2U	mg/kg mg/kg	2E-06 2E-06	SL-9 SL-9				 	0.000000116 J 	
DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	ma/ka ma/ka mg/kg ma/ka	2E-06 2E-06 5.2E-06 5.2E-06	SL-9 SL-9 SL-10 SL-10					0.000000116 J 	
CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0	mg/kg mg/kg mg/kg mg/kg	2E-06 2E-06 5.2E-06 5.2E-06	SL-9 SL-9 SL-10 SL-10				 	0.000000116 J 	
CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6	mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67	SL-9 SL-9 SL-10 SL-10 SL-1 SL-1					0.000000116 J 	
CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9	ma/ka mg/ka mg/ka ma/ka mg/kg mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67	SL-9 SL-9 SL-10 SL-10 SL-1 SL-1 SL-8 SL-8					0.000000116 J 	
CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5	SL-9 SL-9 SL-10 SL-10 SL-1 SL-1 SL-8 SL-8 SL-8			 			
CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7	ma/ka ma/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96	SL-9 SL-10 SL-10 SL-10 SL-10 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8					0.000000116 J 	
CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5	SL-9 SL-9 SL-10 SL-10 SL-1 SL-1 SL-8 SL-8 SL-8			 			
CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2	ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/ka mg/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67	SL-9 SL-9 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8			 			
DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0	ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/ka mg/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67	SL-9 SL-19 SL-10 SL-10 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8				 		
CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7	ma/ka ma/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7	\$L-9 \$L-9 \$L-10 \$L-10 \$L-11 \$L-8 \$L-8 \$L-8 \$L-8 \$L-8 \$L-8 \$L-8						
CDF TEC-1/2U DF-TEC-0U DF-TEC-0U DF-TEC-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0	ma/ka ma/ka mg/kg mg/kg mg/ka mg/kg mg/kg mg/ka mg/ka mg/ka mg/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54	SL-9 SL-10 SL-10 SL-10 SL-10 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						
CDF TEO-1/2U DF-TEO-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3	ma/ka ma/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54 1.7 0.54 1.7 0.54 1.7 0.54 1.7 0.55 1.67 1.7 0.54 1.7 0.54 1.7 0.54 0.67 0.55 1.7 0.54 0.67 0.55 1.7 0.54 0.55 1.7 0.55 0.67 0.55 0.67 0.57 0.	SL-9 SL-10 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						
CDF TEO-1/2U DF-TEO-0U DF-TEO-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	ma/ka ma/ka	2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389	SL-9 SL-10 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						
CDF TEO-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 86-01-8 129-00-0 56-55-3 50-32-8 205-99-2	ma/ka ma/ka ma/ka mg/kg	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54 1.7 0.54 1.7 0.54 1.7 0.54 1.7 0.55 1.67 1.7 0.54 1.7 0.54 1.7 0.54 0.67 0.55 1.7 0.54 0.67 0.55 1.7 0.54 0.55 1.7 0.55 0.67 0.55 0.67 0.57 0.	SL-9 SL-10 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						
CDF TEO-1/2U DF-TEO-0U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 50-32-8 205-99-2 205-92-2	ma/ka ma/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-10 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						
CDF TEC-1/2U DF-TEC-0U DF-TEC-0U DF-TEC-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9	ma/ka ma/ka ma/ka mg/kg	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-10 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						
CDF TEO-1/2U DF-TEO-0U DF-TEO-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-98-2 205-82-3 207-08-9 218-01-9	ma/ka ma/ka ma/ka mg/kg	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-10 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						
CDF TEC-1/2U DF-TEC-0U DF-TEC-0U DF-TEC-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-98-2 205-82-3 207-08-9 218-01-9 55-70-3	ma/ka ma/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-10 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						
CDF TEC-1/2U DF-TEC-0U DF-TEC-0U DF-TEC-01/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 86-01-8 129-00-0 56-55-3 50-32-8 205-98-2 205-82-3 207-08-9 218-01-9 53-70-3 193-39-5	ma/ka ma/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-10 SL-10 SL-10 SL-10 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						
CDF TEC-1/2U DF-TEC-0U DF-TEC-0U DF-TEC-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-98-2 205-82-3 207-08-9 218-01-9 55-70-3	ma/ka ma/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-10 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						
	7440-47-3 7440-50-8 7439-92-1 7439-97-6 7440-02-0 7440-02-0 7440-02-0 7440-66-6 14488-53-0 78763-54-9 1461-25-2 36643-28-4 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11098-82-5 37324-23-5 11100-144-1-2 1141-16-5-0C 53469-21-9-0C 11097-69-1 1096-82-5-0C 37324-23-5-0C 11097-69-1-0C 11096-82-5-0C 37324-23-5-0C 11100-144-4-0C T-PCBs-0D T-PCBs-0D T-PCBCOng PCB-TEQ-0U	7440-38-2 mg/kg 7440-43-9 ma/ka 7440-47-3 mg/ka 7440-47-3 mg/ka 7440-50-8 mg/ka 7439-92-1 mg/ka 7439-92-1 mg/ka 7440-02-0 mg/kg 7440-02-0 mg/kg 7440-02-0 mg/kg 7440-02-0 mg/kg 7440-66-6 mg/ka 14488-53-0 mg/kg 1461-25-2 mg/kg 1461-25-2 mg/kg 1461-25-2 mg/kg 11104-28-2 mg/kg 11104-28-2 mg/kg 11104-28-2 mg/kg 11104-28-3 mg/kg 11109-69-1 mg/kg 1109-69-1 mg/kg 1109-69-1 mg/kg 1109-69-2 mg/kg 1109-69-2 mg/kg 1109-69-1 mg/kg 1109-69-2 mg/kg 1109-69-2 mg/kg 1109-69-2 mg/kg 1109-69-1 mg/kg 12674-11-2 mg/kg 1109-69-2 mg/kg 1109-69-1 mg/kg 12674-11-2 mg/kg 1109-69-1 mg/kg 12674-11-2 mg/kg 12674-11-2 mg/kg 1109-69-1 mg/kg 12674-11-2 mg/kg	CAS RN Unit SOILS SLS 2022.02 2022.02 7440-38-2 mg/kg 7.3 7440-43-9 mg/kg 0.77 7440-50-8 mg/kg 48.2 7440-50-8 mg/kg 36.4 7439-97-6 mg/kg 50 7440-02-0 mg/kg 48 7440-02-1 mg/kg 48 7440-22-4 mg/kg 0.323 7440-66-6 mg/kg 86 14488-53-0 mg/kg 66 14488-53-9 mg/kg 0.0021 1664-28-4 mg/kg 0.0021 12674-11-2 mg/kg 0.0021 12674-11-2 mg/kg 0.0021 11104-28-2 mg/kg 0.0021 12672-29-6 mg/kg 0.0021 11097-69-1 mg/kg 0.0021 11097-69-1 mg/kg 0.0021 11097-69-1 mg/kg 0.0021 11097-69-1 mg/kg 0.0021 11097-69-1	Sample Depth	SPM_RI_VADOSE	Sample Depth Dep	Sample SPM-SS-14-02102016 SPM-SS-14-02102016 O - 1.6 ft O - 1.6 ft	SAMPRIC VADOSE- SPM_SS_1-3-02102016 SPM_SS_1-5-02102016 O - 1.6 ft O -	SPM_SR_VADOSE

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SS-19 02/10/2016 SPM-SS-19-02102016 0 - 1.6 ft	SS-20 02/10/2016 SPM-SS-20-02102016 0 - 1.6 ft	SS-21 02/08/2016 SPM-SS-21-02082016 0 - 1.6 ft	SS-22 02/08/2016 SPM-SS-22-02082016 0 - 1.6 ft	SS-23 02/08/2016 SPM-SS-23-02082016 0 - 1.6 ft	SS-24 02/10/2016 SPM-SS-24-02102016 0 - 1.6 ft
			SPM_RI_VADOSE- SOILS_SLS	Screening Level						
Analyte Metals	CAS_RN	Unit	2022.02	Source						
Arsenic	7440-38-2	mg/kg	7.3	SL-10		I		l	I	
Cadmium	7440-43-9	mg/kg	0.77	SL-10						
Chromium	7440-47-3	mg/kg	48.2	SL-10		-		-	-	-
Copper	7440-50-8	mg/kg	36.4	SL-10		-				
Lead	7439-92-1	mg/kg	50	SL-9		-		-	-	-
Mercury	7439-97-6	mg/kg	0.07	SL-10		-				
Nickel	7440-02-0	mg/kg	48	SL-10				-	-	-
Silver	7440-22-4	mg/kg	0.323	SL-3		-				-
Zinc Butyl Tin Ions	7440-66-6	mg/kg	86	SL-9						
Dibutyltin Ion	14488-53-0	mg/kg	ı	ı		I		l	l	-
Monobutyltin	78763-54-9	mg/kg				-			-	-
Tetrabutyltin	1461-25-2	mg/kg						-		
Tributyltin Ion	36643-28-4	mg/kg	0.0021	SL-8		-			-	_
Polychlorinated Biphenyl Aroclors		31.13								
Aroclor 1016	12674-11-2	mg/kg			< 0.08 U	< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	11104-28-2	mg/kg			< 0.08 U	< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1232	11141-16-5	mg/kg			< 0.08 U	< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1242	53469-21-9	mg/kg			< 0.08 U	< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	12672-29-6	mg/kg			< 0.08 U	< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1254	11097-69-1	mg/kg			< 0.08 U	< 0.08 U	< 0.04 UJ	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1260	11096-82-5 37324-23-5	mg/kg			0.77 < 0.08 U	< 0.08 U < 0.08 U	16 J < 0.04 UJ	0.22 < 0.004 U	0.083 < 0.004 U	0.074 < 0.004 U
Aroclor 1262 Aroclor 1268	3/324-23-5 11100-14-4	mg/kg			< 0.08 U	< 0.08 U	< 0.04 UJ < 0.04 UJ	< 0.004 U < 0.004 U	< 0.004 U	< 0.004 U < 0.004 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg mg/kg	1.1E-05	SL-3	1.09	< 0.08 U	16.2 J	0.004 0	0.004 0	0.004 0
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3	0.77	< 0.08 U	16	0.230	0.083	0.074
Aroclor 1016 (OC normalized)	12674-11-2-OC	mg/kg-OC	1112 00	02.0	< 32.520325203 U	< 62.5 U	< 3.50877193 UJ	< 0.788954635 U	< 0.869565217 U	< 0.896860987 U
Aroclor 1221 (OC normalized)	11104-28-2-OC	mg/kg-OC			< 32.520325203 U	< 62.5 U	< 3.50877193 UJ	< 0.788954635 U	< 0.869565217 U	< 0.896860987 U
Aroclor 1232 (OC normalized)	11141-16-5-OC	mg/kg-OC			< 32.520325203 U	< 62.5 U	< 3.50877193 UJ	< 0.788954635 U	< 0.869565217 U	< 0.896860987 U
Aroclor 1242 (OC normalized)	53469-21-9-OC	mg/kg-OC			< 32.520325203 U	< 62.5 U	< 3.50877193 UJ	< 0.788954635 U	< 0.869565217 U	< 0.896860987 U
Aroclor 1248 (OC normalized)	12672-29-6-OC	mg/kg-OC			< 32.520325203 U	< 62.5 U	< 3.50877193 UJ	< 0.788954635 U	< 0.869565217 U	< 0.896860987 U
Aroclor 1254 (OC normalized)	11097-69-1-OC	mg/kg-OC			< 32.520325203 U	< 62.5 U	< 3.50877193 UJ	< 0.788954635 U	< 0.869565217 U	< 0.896860987 U
Aroclor 1260 (OC normalized)	11096-82-5-OC	mg/kg-OC			313.008130081	< 62.5 U	1403.50877193 J	43.392504931	18.043478261	16.591928251
Aroclor 1262 (OC normalized)	37324-23-5-OC	mg/kg-OC			< 32.520325203 U	< 62.5 U	< 3.50877193 UJ	< 0.788954635 U	< 0.869565217 U	< 0.896860987 U
Aroclor 1268 (OC normalized)	11100-14-4-OC T-PCBs-OC	mg/kg-OC			< 32.520325203 U	< 62.5 U < 62.5 U	< 3.50877193 UJ 1403.50877193	< 0.788954635 U 43.392504931	< 0.869565217 U	< 0.896860987 U
Total PCBs (Sum of Aroclors) OC normalized Polychlorinated Biphenyl Congeners	1-PCBS-UC	mg/kg-OC	<u> </u>		313.008130081	< 62.5 U	1403.50677193	43.392504931	18.043478261	16.591928251
Total PCB Congeners	T-PCBCong	mg/kg	1.1E-05	SL-3	0.93	0.101	22.1	0.416	0.186	0.105
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	6.93E-09	SL-3	0.0000266	0.00000309 J	0.000351 J	0.0000122	0.00000696 J	0.00000399 J
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	6.93E-09	SL-3	0.0000266	0.00000309 J	0.000351 J	0.0000122	0.00000696 J	0.00000399 J
Dioxins/Furans										
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9		-		-	-	-
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9		-				
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg	5.2E-06	SL-10		-				-
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons	DF-TEQ-1/2U	mg/kg	5.2E-06	SL-10			-	-		
1-Methylnaphthalene	90-12-0	mg/kg	34.5	SL-1				l <u></u>	I	I
2-Methylnaphthalene	91-57-6	mg/kg mg/kg	0.67	SL-8					-	
Acenaphthene	83-32-9	mg/kg	0.5	SL-8						
Acenaphthylene	208-96-8	mg/kg	1.3	SL-8		-				_
Anthracene	120-12-7	mg/kg	0.96	SL-8		_			-	_
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.67	SL-8						
Fluoranthene	206-44-0	mg/kg	1.7	SL-8		-		-		-
Fluorene	86-73-7	mg/kg	0.54	SL-8		-		-		-
Naphthalene	91-20-3	mg/kg	0.0389	SL-3				-		-
Phenanthrene	85-01-8	mg/kg	1.5	SL-8		-			-	-
Pyrene	129-00-0	mg/kg	2.6	SL-8		-		-		-
Benz(a)anthracene	56-55-3 50.33.8	mg/kg	0.00031	SL-3				_		-
Benzo(a)pyrene Benzo(b)fluoranthene	50-32-8 205-99-2	mg/kg mg/kg	0.00031	SL-J		-				-
	205-89-2	mg/kg mg/kg	†			-		-	-	-
Benzo(i)fluoranthene Benzo(k)fluoranthene	205-62-3	ma/ka				-				
Chrysene	218-01-9	mg/kg	†							
Dibenzo(a,h)anthracene	53-70-3	mg/kg				-				-
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg				-			-	-
Total Benzofluoranthenes	TOTBFA	mg/kg	3.2	SL-8		-				-
Total HPAHs	T-HPAH	mg/kg	12	SL-8				_	-	
Total LPAHs	T-LPAH	mg/kg	5.2	SL-8		I -		-		-

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SS-25 02/08/2016 SPM-SS-25-02082016 0 - 1.6 ft	SS-26 02/08/2016 SPM-SS-26-02082016 0 - 1.6 ft	SS-27 02/08/2016 SPM-SS-27-02082016 0 - 1.6 ft	SS-28 02/11/2016 SPM-SS-28-02112016 0 - 1.6 ft	SS-29 02/11/2016 SPM-SS-29-02112016 0 - 1.6 ft	SS-30 02/11/2016 SPM-SS-30-02112016 0 - 1.6 ft	SS-31 11/17/2017 SS-31-0-1.5 0 - 1.5 ft
Analyte	CAS RN	Unit	SPM_RI_VADOSE- SOILS_SLS 2022.02	Screening Level Source	n		0				x
Metals	CAS RIV	Offic	2022.02	Source							
Arsenic	7440-38-2	mg/kg	7.3	SL-10							
Cadmium	7440-43-9	mg/kg	0.77	SL-10		-		-	-	1	
Chromium	7440-47-3	mg/kg	48.2	SL-10		-		-	-		
Copper	7440-50-8	mg/kg	36.4	SL-10		-		-	-	-	-
Lead	7439-92-1	mg/kg	50	SL-9		-		-	-	-	-
Mercury	7439-97-6	mg/kg	0.07	SL-10		-		-	-	-	-
Nickel	7440-02-0	mg/kg	48	SL-10		-		-	-	-	-
Silver	7440-22-4	mg/kg	0.323	SL-3				_		-	
Zinc	7440-66-6	mg/kg	86	SL-9		-		-	-	-	-
Butyl Tin Ions											
Dibutyltin Ion	14488-53-0	mg/kg									
Monobutyltin	78763-54-9	mg/kg						_		-	
Tetrabutyltin	1461-25-2	mg/kg			-	-	-	_	-	-	
Tributyltin Ion	36643-28-4	mg/kg	0.0021	SL-8		-		-		-	
Polychlorinated Biphenyl Aroclors											
Aroclor 1016	12674-11-2	mg/kg			< 0.004 U	< 0.04 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.08 U	< 0.054 U
Aroclor 1221	11104-28-2	mg/kg			< 0.004 U	< 0.04 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.08 U	< 0.054 U
Aroclor 1232	11141-16-5	mg/kg			< 0.004 U	< 0.04 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.08 U	< 0.054 U
Aroclor 1242	53469-21-9	mg/kg			< 0.004 U	< 0.04 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.08 U	< 0.054 U
Aroclor 1248	12672-29-6	mg/kg			< 0.004 U	< 0.04 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.08 U	< 0.054 U
Aroclor 1254	11097-69-1	mg/kg			< 0.004 U	0.11	< 0.004 U	< 0.04 U	< 0.004 U	< 0.08 U	< 0.054 U
Aroclor 1260	11096-82-5	mg/kg			0.6	0.5	0.041	0.28	0.16	1.9	0.064
Aroclor 1262	37324-23-5	mg/kg			< 0.004 U	< 0.04 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.08 U	-
Aroclor 1268	11100-14-4	mg/kg			< 0.004 U	< 0.04 U	< 0.004 U	< 0.04 U	< 0.004 U	< 0.08 U	
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	1.1E-05	SL-3	0.616	0.750	0.0570	0.440	0.176	2.22	0.226
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3	0.6	0.61	0.041	0.28	0.16	1.9	0.064
Aroclor 1016 (OC normalized)	12674-11-2-OC	mg/kg-OC			< 0.698080279 U	< 30.769230769 U	< 1.587301587 U	< 6.472491909 U	< 0.338983051 U	< 8.629989213 U	
Aroclor 1221 (OC normalized)	11104-28-2-OC	mg/kg-OC			< 0.698080279 U	< 30.769230769 U	< 1.587301587 U	< 6.472491909 U	< 0.338983051 U	< 8.629989213 U	
Aroclor 1232 (OC normalized)	11141-16-5-OC	mg/kg-OC			< 0.698080279 U	< 30.769230769 U	< 1.587301587 U	< 6.472491909 U	< 0.338983051 U	< 8.629989213 U	
Aroclor 1242 (OC normalized)	53469-21-9-OC	mg/kg-OC			< 0.698080279 U	< 30.769230769 U	< 1.587301587 U	< 6.472491909 U	< 0.338983051 U	< 8.629989213 U	
Aroclor 1248 (OC normalized)	12672-29-6-OC	mg/kg-OC			< 0.698080279 U	< 30.769230769 U	< 1.587301587 U	< 6.472491909 U	< 0.338983051 U	< 8.629989213 U	
Aroclor 1254 (OC normalized)	11097-69-1-OC	mg/kg-OC			< 0.698080279 U	84.615384615	< 1.587301587 U	< 6.472491909 U	< 0.338983051 U	< 8.629989213 U	
Aroclor 1260 (OC normalized)	11096-82-5-OC	mg/kg-OC			104.712041885	384.615384615	16.26984127	45.307443366	13.559322034	204.962243797	
Aroclor 1262 (OC normalized)	37324-23-5-OC	mg/kg-OC			< 0.698080279 U	< 30.769230769 U	< 1.587301587 U	< 6.472491909 U	< 0.338983051 U	< 8.629989213 U	
Aroclor 1268 (OC normalized)	11100-14-4-OC	mg/kg-OC			< 0.698080279 U	< 30.769230769 U	< 1.587301587 U	< 6.472491909 U	< 0.338983051 U	< 8.629989213 U	
Total PCBs (Sum of Aroclors) OC normalized	T-PCBs-OC	mg/kg-OC			104.712041885	469.230769231	16.26984127	45.307443366	13.559322034	204.962243797	
Polychlorinated Biphenyl Congeners	1-1 003-00	mg/kg-00			104.7 1204 1000	400.200700201	10.20004121	40.001 440000	10.000022004	E04.50EE40101	
Total PCB Congeners	T-PCBCona	ma/ka	1.1E-05	SL-3	0.611	0.287	0.0835	0.538	0.18	2.6	
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	6.93E-09	SL-3	0.0000176	0.00000861 J	0.00000474 J	0.0000662	0.00000514		_
Total PCB TEQ (ND = 1/2 RDL)										0.0000277.1	
	PCB-TEQ-1/2U	ma/ka	6 93F-09	SI-3	0.0000176	L 88800000 0	0.00000474.1	0.00000662	0.00000514	0.0000277 J 0.0000277 J	
	PCB-TEQ-1/2U	mg/kg	6.93E-09	SL-3	0.0000176	0.00000868 J	0.00000474 J	0.00000662	0.00000514	0.0000277 J 0.0000277 J	
Dioxins/Furans					0.0000176	0.00000868 J	0.00000474 J	0.0000662	0.00000514		
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9				-		0.0000277 J 	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U CDF TEQ-1/2U	mg/kg mg/kg	2E-06 2E-06	SL-9 SL-9			 			0.0000277 J 	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0)	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U	mg/kg mg/kg mg/kg	2E-06 2E-06 5.2E-06	SL-9 SL-9 SL-10				-		0.0000277 J 	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U CDF TEQ-1/2U	mg/kg mg/kg	2E-06 2E-06	SL-9 SL-9			 			0.0000277 J 	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0)	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U	mq/kq mq/kq mg/kg mq/kq	2E-06 2E-06 5.2E-06	SL-9 SL-9 SL-10			 			0.0000277 J 	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	mq/kq mg/kq mg/kg mq/kq mg/kg	2E-06 2E-06 5.2E-06 5.2E-06	SL-9 SL-9 SL-10 SL-10			 			0.0000277 J 	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6	mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67	SL-9 SL-9 SL-10 SL-10 SL-1 SL-1			 			0.0000277 J 	
Dioxins/Furans	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5	SL-9 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8			 			0.0000277 J 	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8	ma/kq ma/ka mg/kg mg/kq mg/kg mg/kg mg/kg mg/kg	2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5	SL-9 SL-9 SL-10 SL-10 SL-15 SL-1 SL-8 SL-8 SL-8			 				
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthene Acenaphthylene Acenaphthylene Acthracene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7	mq/kq mq/kq mg/kq mg/kq mg/kq mg/kq mg/kq mg/kq	2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96	SL-9 SL-10 SL-10 SL-10 SL-10 SL-1 SL-8 SL-8 SL-8 SL-8			 			0.0000277 J 	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Anthracene Benzo(a,h.)perylene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2	ma/ka ma/ka mg/kg ma/ka mg/ka mg/ka mg/ka mg/ka ma/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67	SL-9 SL-9 SL-10 SL-10 SL-10 SL-18 SL-8 SL-8 SL-8 SL-8			 				
Dioxins/Furans	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0	ma/ka ma/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka ma/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67	SL-9 SL-19 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8			 				
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acenaphthylene Benzo(q,h,i)perylene Fluoranthene Fluoranthene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7	ma/ka ma/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7	SL-9 SL-9 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						0.0000277 J	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(a, h.)perylene Fluoranthene Fluorene Naphthalene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3	ma/ka ma/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54	SL-9 SL-9 SL-10 SL-10 SL-10 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8							
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g, h, l)pervlene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8	ma/ka ma/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389	SL-9 SL-10 SL-10 SL-10 SL-10 SL-10 SL-10 SL-10 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8							
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthalene Acenaphthelene Acenaphthylene Acenaphthylene Anthracene Benzo(q,h,i)perylene Fluoranthene Fluoranthene Naphthalene Naphthalene Phenanthrene Phenanthrene Phyrene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 86-01-8 129-00-0	ma/ka ma/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54	SL-9 SL-9 SL-10 SL-10 SL-10 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8							
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(a,h.l)pervlene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Benz(a)anthracene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0	ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-19 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						0.0000277 J	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Naphthalene Naphthalene Pyrene Benz(a)anthracene Benz(a)anthracene Benz(a)anthracene Benz(a)pyrene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	ma/ka ma/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389	SL-9 SL-10 SL-10 SL-10 SL-10 SL-10 SL-10 SL-10 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						0.0000277 J	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene Acenaphthere Acenaphthere Anthracene Benzo(a,h,i)pervlene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-157-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	ma/ka ma/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-19 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8							
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,l)pervlene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Pyrene Benzo(a) Anthracene Benzo(a) Anthracene Benzo(a) Anthracene Benzo(a) Pyrene Benzo(b) Fluoranthene Benzo(b) Fluoranthene Benzo(b) Fluoranthene Benzo(b) Fluoranthene	CDD TEQ-1/2U CDF TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-93-2	ma/ka ma/ka mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-19 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						0.0000277 J	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Anthracene Benzo(a,h.)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pryrene Benzo(a)pryrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(c)lifuoranthene Benzo(c)lifuoranthene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9	ma/ka ma/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-19 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8							
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(a,h.l)pervlene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benz(a)anthracene Benz(a)pyrene Benz(a)pyrene Benzo(b)fluoranthene Benzo(l)fluoranthene Benzo(l)fluoranthene Benzo(l)fluoranthene Benzo(l)fluoranthene Benzo(l)fluoranthene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 191-24-2 36-50-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9 218-01-9	ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-19 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8							
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(a,h.i)perylene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 56-35-3 205-99-2 205-99-2 218-01-9 218-01-9 218-01-9	ma/ka ma/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-19 SL-10 SL-10 SL-11 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8							
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDT TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Benzo(a,h.i)pervlene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenauthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Chrysene Dibenzo(a,h)anthracene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9 218-01-9 53-70-3 193-39-5	ma/ka ma/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-19 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						0.0000277 J	
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,l)pervlene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Benzo(a) Anthracene Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(a) Benzo(b) Benzo(a) Benzo(a) Benzo(b) Benzo(a) Benzo(a) Benzo(a) Benzo(b) Benzo(a	CDD TEQ-1/2U CDF TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-89-2 205-89-2 205-89-2 218-01-9 53-70-3 193-39-5 TOTBFA	ma/ka ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-10 SL-10 SL-10 SL-10 SL-10 SL-10 SL-10 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8							
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) PolycyClic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene 4-Methylnaphthalene 8-Methylnaphthalene 4-Methylnaphthalene 8-Methylnaphthalene 1-Methylnaphthalene 8-Methylnaphthalene 8-Methylnaphthalene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(fluoranthene Benzo(fluoranthene Benzo(fluoranthene Benzo(fluoranthene Benzo(fluoranthene Chrysene Dibenzo(a,h)lanthracene Indeno(1,2,3-cd)pyrene	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 207-08-9 218-01-9 53-70-3 193-39-5	ma/ka ma/ka	2E-06 2E-06 5.2E-06 5.2E-06 5.2E-06 34.5 0.67 0.5 1.3 0.96 0.67 1.7 0.54 0.0389 1.5 2.6	SL-9 SL-19 SL-10 SL-10 SL-11 SL-1 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8 SL-8						0.0000277 J	

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SS-32 11/17/2017 SS-32-0-1.5 0 - 1.5 ft	SS-33 11/17/2017 SS-33-0-1.5 0 - 1.5 ft	SS-34 11/17/2017 SS-34-0-1.5 0 - 1.5 ft	SS-35 11/17/2017 SS-35-0-1.5 0 - 1.5 ft	SS-36 11/17/2017 SS-36-0-1.5 0 - 1.5 ft	SS-37 11/17/2017 SS-37-0-1.5 0 - 1.5 ft	SS-38 11/17/2017 SS-38-0-1 0 - 1 ft	SS-39 11/17/2017 SS-39-0-1.25 0 - 1.25 ft	T117 A10 01/17/2006 T117-A10-SB-01 0 - 1.5 ft	T117 A11 01/24/2006 T117-A11-SB-0.0-0.5 0 - 0.5 ft
A1-4-	CAS RN	Unit	SPM_RI_VADOSE- SOILS_SLS 2022.02	Screening Level	0 - 1.0 it	0 - 1.0 K	0 - 1.0 K	0 - 1.010	0 - 1.0 K	0 - 1.0 11	V-III	0 - 1.2010	0 - 1.0 K	0 - 0.0 It
Analyte Metals	CAS_RN	Unit	_2022.02	Source										
Arsenic	7440-38-2	mg/kg	7.3	SL-10						-	-	-	I	
Cadmium	7440-43-9	mg/kg	0.77	SL-10					_	_	_	_		
Chromium	7440-47-3	mg/kg	48.2	SL-10					-	-	-	-		
Copper	7440-50-8	mg/kg	36.4	SL-10						-		-		
Lead	7439-92-1	mg/kg	50	SL-9				-	-		-	-		
Mercury	7439-97-6	mg/kg	0.07	SL-10					-		-	-		
Nickel Silver	7440-02-0 7440-22-4	mg/kg mg/kg	48 0.323	SL-10 SL-3	-				-	-	-	-		
Zinc	7440-66-6	mg/kg	86	SL-9										
Butyl Tin Ions	1110000	mgmg		020									L	
Dibutyltin Ion	14488-53-0	mg/kg								-	-	-		
Monobutyltin	78763-54-9	mg/kg			-			-	-	-	-	-		
Tetrabutyltin	1461-25-2	mg/kg							-	-	-	-		
Tributyltin Ion	36643-28-4	mg/kg	0.0021	SL-8								-		
Polychlorinated Biphenyl Aroclors Aroclor 1016	12674-11-2	mg/kg			< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	< 0.54 U	< 0.053 U	< 5.5 U	< 1.1 U	< 0.033 U	< 0.033 U
Aroclor 1016 Aroclor 1221	11104-28-2	mg/kg	1		< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	< 0.54 U	< 0.053 U	< 5.5 U	< 1.1 U	< 0.033 U	< 0.033 U
Aroclor 1232	11141-16-5	mg/kg			< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	< 0.54 U	< 0.053 U	< 5.5 U	< 1.1 U	< 0.033 U	< 0.033 U
Aroclor 1242	53469-21-9	mg/kg	İ		< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	< 0.54 U	< 0.053 U	< 5.5 U	< 1.1 U	< 0.033 U	< 0.033 U
Aroclor 1248	12672-29-6	mg/kg			< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	< 0.54 U	< 0.053 U	< 5.5 U	< 1.1 U	< 0.033 U	< 0.033 U
Aroclor 1254	11097-69-1	mg/kg			< 0.052 U	< 5.4 U	< 0.053 U	< 0.052 U	1.8	< 0.053 U	12	10	< 0.033 U	0.069
Aroclor 1260	11096-82-5	mg/kg			0.2	29	< 0.053 U	< 0.052 U	3.8	< 0.053 U	54	< 1.1 U	0.088	0.15 J
Aroclor 1262 Aroclor 1268	37324-23-5 11100-14-4	mg/kg							-	-	-	-		
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg mg/ka	1.1E-05	SL-3	0.356	45.2	< 0.053 U	< 0.052 U	6.95	< 0.053 U	79.8	13.3	0.187	0.302 J
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3	0.330	29	< 0.053 U	< 0.052 U	5.6	< 0.053 U	66	10	0.088	0.22 J
Aroclor 1016 (OC normalized)	12674-11-2-OC	mg/kg-OC	1112 00	02.0										
Aroclor 1221 (OC normalized)	11104-28-2-OC	mg/kg-OC			-				-	-	-	-		
Aroclor 1232 (OC normalized)	11141-16-5-OC	mg/kg-OC							-		-	-		
Aroclor 1242 (OC normalized)	53469-21-9-OC	mg/kg-OC			-						-	-		-
Aroclor 1248 (OC normalized)	12672-29-6-OC 11097-69-1-OC	mg/kg-OC							-	-	-	-		-
Aroclor 1254 (OC normalized) Aroclor 1260 (OC normalized)	11097-69-1-OC 11096-82-5-OC	mg/kg-OC mg/kg-OC			-							-		
Aroclor 1260 (OC normalized)	37324-23-5-OC	mg/kg-OC						-	_			-		
Aroclor 1268 (OC normalized)	11100-14-4-OC	mg/kg-OC									_			
Total PCBs (Sum of Aroclors) OC normalized	T-PCBs-OC	mg/kg-OC							-		-	-		
Polychlorinated Biphenyl Congeners														
Total PCB Congeners	T-PCBCong	mg/kg	1.1E-05	SL-3	-	76.5			-	-	49.2	6.04		
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	6.93E-09	SL-3		0.00132		-	-	-	0.000844	0.000229		
Total PCB TEQ (ND = 1/2 RDL) Dioxins/Furans	PCB-TEQ-1/2U	mg/kg	6.93E-09	SL-3		0.00132	<u> </u>				0.000844	0.000231		
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9		ı	T .		ı	1				
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9							-			
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg	5.2E-06	SL-10					-		-	-		
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	mg/kg	5.2E-06	SL-10	-				-		-	-		
Polycyclic Aromatic Hydrocarbons														
1-Methylnaphthalene	90-12-0	mg/kg	34.5	SL-1						-	-	-	< 0.066 U	
2-Methylnaphthalene	91-57-6	mg/kg	0.67	SL-8	-		-	-	-	-	-	-	< 0.066 U	
Acenaphthene Acenaphthylene	83-32-9 208-96-8	mg/kg mg/kg	0.5 1.3	SL-8 SL-8									< 0.066 U < 0.066 U	
Anthracene	120-12-7	mg/kg	0.96	SL-6 SL-8						-		-	< 0.066 U	
Benzo(q,h,i)perylene	191-24-2	mg/kg	0.67	SL-8				-			_		< 0.066 U	
Fluoranthene	206-44-0	mg/kg	1.7	SL-8							-	-	< 0.066 U	
Fluorene	86-73-7	mg/kg	0.54	SL-8	-	-	-		-	-	-		< 0.066 U	-
Naphthalene	91-20-3	mg/kg	0.0389	SL-3		-		-	-		-	-	< 0.066 U	
Phenanthrene	85-01-8	mg/kg	1.5	SL-8						-	-	-	< 0.066 U	
Pyrene Panz(a)anthrasana	129-00-0 56-55-3	mg/kg ma/ka	2.6	SL-8					-			-	< 0.066 U < 0.066 U	
Benz(a)anthracene Benzo(a)pyrene	56-55-3 50-32-8	mg/kg mg/kg	0.00031	SL-3			-				-	-	< 0.066 U	
Benzo(b)fluoranthene	205-99-2	mg/kg	0.00031	OL-O		-				-			< 0.066 U	
Benzo(i)fluoranthene	205-82-3	mg/kg	1					-		-				-
Benzo(k)fluoranthene	207-08-9	mg/kg	<u> </u>		-				-	-	-	-	< 0.066 U	
Chrysene	218-01-9	mg/kg			-	-			-	-	-	-	< 0.066 U	-
Dibenzo(a,h)anthracene	53-70-3	mg/kg			-				-	-	-	_	< 0.066 U	
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg		01.0					-		-	-	< 0.066 U	
Total Benzofluoranthenes	TOTBFA T-HPAH	mg/kg	3.2	SL-8	-		-		-	-	-	-		
Total HPAHs Total LPAHs	T-HPAH T-LPAH	mg/kg mg/kg	12 5.2	SL-8 SL-8	-		 -		-		-		< 0.066 U < 0.066 U	
I I VIAI LEMES	I I-LPAN	mg/kg	J.Z	JL-0		-			-				∨ 0.000 U	

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	T117 A12 01/24/2006 T117-A12-SB-0.0-0.5 0 - 0.5 ft	T117 A12 01/24/2006 T117-A12-SB-0.5-1.5 0.5 - 1.5 ft
			SPM_RI_VADOSE- SOILS_SLS	Screening Level		
Analyte	CAS_RN	Unit	2022.02	Source		
Metals	7440-38-2	malka	7.3	SL-10		
Arsenic	7440-38-2	mg/kg	0.77	SL-10 SL-10		
Cadmium Chromium	7440-43-9	mg/kg mg/kg	48.2	SL-10		
Copper	7440-50-8	mg/kg	36.4	SL-10		
Lead	7439-92-1	mg/kg	50	SL-9		
Mercury	7439-97-6	mg/kg	0.07	SL-10		
Nickel	7440-02-0	mg/kg	48	SL-10		
Silver	7440-22-4	mg/kg	0.323	SL-3		
Zinc	7440-66-6	mg/kg	86	SL-9		
Butyl Tin Ions	11100 =0.0					
Dibutyltin Ion	14488-53-0	mg/kg				
MonobutyItin	78763-54-9	mg/kg				
Tetrabutyltin	1461-25-2 36643-28-4	mg/kg	0.0021	SL-8		
Tributyltin Ion Polychlorinated Biphenyl Aroclors	30043-20-4	mg/kg	0.0021	SL-0		
Aroclor 1016	12674-11-2	mg/kg			< 0.23 U	< 0.076 U
Aroclor 1221	11104-28-2	mg/kg			< 0.23 U	< 0.076 U
Aroclor 1232	11141-16-5	mg/kg	1		< 0.23 U	< 0.076 U
Aroclor 1242	53469-21-9	mg/kg			< 0.23 U	< 0.076 U
Aroclor 1248	12672-29-6	mg/kg			< 0.23 U	< 0.076 U
Aroclor 1254	11097-69-1	mg/kg			2.1	0.25
Aroclor 1260	11096-82-5	mg/kg			1.1 J	0.34
Aroclor 1262	37324-23-5	mg/kg				
Aroclor 1268	11100-14-4	mg/kg				-
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	1.1E-05	SL-3	3.78 J	0.780
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1.1E-05	SL-3	3.2 J	0.59
Aroclor 1016 (OC normalized)	12674-11-2-OC	mg/kg-OC				
Aroclor 1221 (OC normalized)	11104-28-2-OC	mg/kg-OC	_			
Aroclor 1232 (OC normalized)	11141-16-5-OC	mg/kg-OC			-	
Aroclor 1242 (OC normalized) Aroclor 1248 (OC normalized)	53469-21-9-OC 12672-29-6-OC	mg/kg-OC mg/kg-OC	1			
Aroclor 1254 (OC normalized) Aroclor 1254 (OC normalized)	11097-69-1-OC	mg/kg-OC	1			
Aroclor 1260 (OC normalized)	11096-82-5-OC	mg/kg-OC				-
Aroclor 1262 (OC normalized)	37324-23-5-OC	mg/kg-OC				
Aroclor 1268 (OC normalized)	11100-14-4-OC	mg/kg-OC				
Total PCBs (Sum of Aroclors) OC normalized	T-PCBs-OC	mg/kg-OC			_	
Polychlorinated Biphenyl Congeners						
Total PCB Congeners	T-PCBCong	mg/kg	1.1E-05	SL-3	_	
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	6.93E-09	SL-3		
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	6.93E-09	SL-3		
Dioxins/Furans	000 750 (0)		05.00	01.0		
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9		
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9	-	
Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-0U DF-TEQ-1/2U	mg/kg mg/kg	5.2E-06 5.2E-06	SL-10 SL-10		-
Polycyclic Aromatic Hydrocarbons	DI -112Q-1/2U	my/rsg	J.ZL-00	OL-10	-	-
1-Methylnaphthalene	90-12-0	mg/kg	34.5	SL-1		
2-Methylnaphthalene	91-57-6	mg/kg	0.67	SL-8		
Acenaphthene	83-32-9	mg/kg	0.5	SL-8		
Acenaphthylene	208-96-8	mg/kg	1.3	SL-8		
Anthracene	120-12-7	mg/kg	0.96	SL-8		
Benzo(q,h,i)perylene	191-24-2	mg/kg	0.67	SL-8	-	
Fluoranthene	206-44-0	mg/kg	1.7	SL-8		
Fluorene	86-73-7	mg/kg	0.54	SL-8		
Naphthalene	91-20-3	mg/kg	0.0389	SL-3		
Phenanthrene Purana	85-01-8	mg/kg	1.5	SL-8		
Pyrene Benz(a)anthracene	129-00-0 56-55-3	mg/kg mg/kg	2.6	SL-8		-
Benzo(a)pyrene	50-33-8	mg/kg	0.00031	SL-3		
Benzo(b)fluoranthene	205-99-2	mg/kg	0.00031	OL-O		
Benzo(i)fluoranthene	205-82-3	mg/kg	1			-
Benzo(k)fluoranthene	207-08-9	mg/kg			_	
Chrysene	218-01-9	mg/kg				
Dibenzo(a,h)anthracene	53-70-3	mg/kg				
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg			_	
Total Benzofluoranthenes	TOTBFA	mg/kg	3.2	SL-8		
Total HPAHs	T-HPAH	mg/kg	12	SL-8	-	
Total LPAHs	T-LPAH	mg/kg	5.2	SL-8		

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	B-01 11/17/2017 B-01-2-3	B-01-3.5-4.5		B-03 11/17/2017 B-03-0-1	B-03 11/17/2017 B-03-2-3	B-03 11/17/2017 B-03-5-6	B-04 11/17/2017 B-04-0-1	B-04 11/17/2017 B-04-2-2.5	B-04 11/17/2017 B-04-5-6	HA-01 03/11/2021 HA-1-0-1	HA-01 03/11/2021 HA-1-2-3	HA-02 03/11/2021 HA-2-0-1
			SPM_RI_VADOSE- SOILS SLS	Depth Screening Level	2 - 3 ft	3.5 - 4.5 ft	2.5 - 3 ft	0 - 1 ft	2 - 3 ft	5 - 6 ft	0 - 1 ft	2 - 2.5 ft	5 - 6 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft
Analyte	CAS RN	Unit	2022.02	Source												
Total PAHs (ND=0)	T-PAH	mg/kg			-		-	-		-	-	-	-	0.855 J	0.662 J	0.889 J
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg	0.00031	SL-3	-		-	-		-	-		-	0.103	0.0646	0.0721 J
Total cPAHs TEQ (ND = 1/2 RDL) Total cPAHs TEQ (ND multiplier Unknown)	T-cPAH-1/2U T-cPAH-UnkU	mg/kg mg/kg	0.00031 0.00031	SL-3 SL-3	-									0.103	0.0646	0.0721 J
Semivolatile Organic Compounds	1-01741-OHRO	шулч	0.00001	OL-U												
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.00133	SL-3	-	-								< 0.0999 U	< 0.0996 U	< 0.0998 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.97	SL-3	-								-	< 0.0999 U	0.026 J	< 0.0998 U
2,4-Dichlorophenol	120-83-2 105-67-9	mg/kg	0.0694	SL-3 SL-8		-	-	-						< 0.0999 U < 0.0999 U	< 0.0996 U < 0.0996 U	< 0.0998 U
2,4-Dimethylphenol 2,4-Dinitrophenol	51-28-5	mg/kg mg/ka	0.029	SL-8 SL-3			-			-	-	-		< 0.0999 U	< 0.0996 U	< 0.0998 U < 0.2 UJ
2,4-Dinitrotoluene	121-14-2	mg/kg	0.00279	SL-3	-		-							< 0.0999 U	< 0.0996 U	< 0.0998 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.667	SL-1	-			-		-		-	-	< 0.0999 U	< 0.0996 U	< 0.0998 U
2-Chloronaphthalene	91-58-7	mg/kg	5.36	SL-3	-								-	< 0.02 U	< 0.0199 U	< 0.02 U
2-Chlorophenol	95-57-8	mg/kg	0.2	SL-3	-									< 0.02 U	< 0.0199 U	< 0.02 U
2-Methylphenol 2-Nitroaniline	95-48-7 88-74-4	mg/kg ma/ka	0.069 800	SL-8 SL-1										< 0.02 U < 0.0999 U	< 0.0199 U < 0.0996 U	< 0.02 U < 0.0998 U
2-Nitrophenol	88-75-5	mg/kg	000	OL-1	-						-			< 0.0999 U	< 0.0996 U	< 0.0998 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3.43E-05	SL-3	-	_		_		_	_		_	< 0.0999 U	< 0.0996 U	< 0.0998 U
3-Nitroaniline	99-09-2	mg/kg			1					-				< 0.0999 U	< 0.0996 U	< 0.0998 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.134	SL-3	-		-	-		-	-	-	-	< 0.2 U	< 0.199 U	< 0.2 U
4-Bromophenyl phenyl ether	101-55-3 59-50-7	mg/kg	0.498	SL-3	-	-							-	< 0.02 U	< 0.0199 U	< 0.02 U < 0.0998 U
4-Chloro-3-methylphenol 4-Chloroaniline	59-50-7 106-47-8	mg/kg mg/kg	0.498 5	SL-3 SL-1			-				-			< 0.0999 U < 0.0999 U	< 0.0996 U < 0.0996 U	< 0.0998 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	J	OL-1	-	-								< 0.0333 U	< 0.0390 U	< 0.02 U
4-Methylphenol	106-44-5	mg/kg	0.67	SL-8	-			_					-	0.021	0.0189 J	< 0.02 U
4-Nitroaniline	100-01-6	mg/kg	50	SL-1	_		-	-		-	_	,	-	1.77	1.29	2.55
4-Nitrophenol	100-02-7	mg/kg	7	SL-9							-		-	< 0.0999 U	< 0.0996 U	< 0.0998 U
Benzoic acid	65-85-0 100-51-6	mg/kg	0.65 0.057	SL-8 SL-8	-		-	-						0.112 J 0.034	< 0.199 U < 0.0199 U	0.067 J 0.531
Benzyl alcohol Benzyl butyl phthalate	85-68-7	mg/kg mg/kg	0.00361	SL-8	-									0.034 0.0616 J	< 0.0199 U	0.0919 J
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	5.09	SL-3										< 0.02 U	< 0.0199 U	< 0.02 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg				-		-					-	< 0.02 U	< 0.0199 U	< 0.02 U
Bis(2-chloroethyl) ether	111-44-4	mg/kg	0.000331	SL-3	-	-		-			-		-	< 0.02 U	< 0.0199 U	< 0.02 U
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.102	SL-3	-	-							-	0.475	0.059	0.264
Carbazole Dibenzofuran	86-74-8 132-64-9	mg/kg mg/kg	0.54	SL-8		-								< 0.02 U 0.0111 J	< 0.0199 U 0.0101	< 0.02 U 0.00626 J
Diethyl phthalate	84-66-2	mg/kg	0.2	SL-8	-									0.0286	< 0.0199 U	< 0.02 U
Dimethyl phthalate	131-11-3	mg/kg	0.071	SL-8	1		-	_	_	-	-	-	-	0.543	0.012 J	0.0792
Di-n-butyl phthalate	84-74-2	mg/kg	0.283	SL-3	-		-	-			-	-	-	0.395	0.0196 J	0.1
Di-n-octyl phthalate	117-84-0	mg/kg	6.2	SL-8	-		-	-	-		-			0.0165 J	< 0.0199 U	< 0.02 U
Hexachlorobenzene Hexachlorobutadiene	118-74-1 87-68-3	mg/kg mg/kg	8.02E-06 0.000212	SL-3 SL-3	-									< 0.00998 U < 0.00533 UJ	< 0.0005 U < 0.0005 U	< 0.01 U < 0.00828 UJ
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.000212	SL-3	-									< 0.00333 UJ	< 0.0996 UJ	< 0.00828 UJ
Hexachloroethane	67-72-1	mg/kg	0.000161	SL-3	-		-							< 0.02 U	< 0.0199 U	0.0143 J
Isophorone	78-59-1	mg/kg	0.583	SL-3	-					-			-	0.0282 J	< 0.0199 U	0.0094 J
Nitrobenzene	98-95-3	mg/kg	0.638	SL-3	_					-	-	-		0.106	0.0307	0.143
N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	621-64-7 86-30-6	mg/kg mg/kg	0.000551 0.028	SL-3 SL-8		-	-							< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U
Pentachlorophenol	87-86-5	mg/kg mg/kg	3.17E-05	SL-8		-								0.473 J	1.08 J	0.02 U
Phenol	108-95-2	mg/kg	0.42	SL-8										0.0302	0.0214	0.0311
Pesticides and Herbicides																
2,4'-DDD	53-19-0	mg/kg			-	-	-	_		-	-	-	-	< 7.98 U	< 0.00399 U	< 11.1 U
2,4'-DDE 2,4'-DDT	3424-82-6 789-02-6	mg/kg	 		-			-						< 9.98 U < 0.02 U	< 0.022 U < 0.001 U	< 8.88 U < 0.02 U
4.4'-DDD	789-02-6 72-54-8	mg/kg ma/ka	7.27E-06	SL-3			-				-			< 0.02 U	< 0.001 U	< 0.02 U
4,4'-DDE	72-55-9	mg/kg	1.52E-06	SL-3	_		-	_		-				< 1.8 U	< 0.001 U	< 6.66 U
4,4'-DDT	50-29-3	mg/kg	1.63E-05	SL-3	-								-	< 0.02 U	< 0.001 U	< 15.5 U
Aldrin	309-00-2	mg/kg	4.01E-08	SL-3	-			-	-			-	-	< 0.998 U	< 0.0005 U	< 0.88 U
Alpha-BHC	319-84-6	mg/kg	1.88E-06	SL-3										< 0.00998 U	< 0.0005 U	< 0.44 U
Beta-BHC cis-Chlordane	319-85-7 5103-71-9	mg/kg mg/kg	6.55E-05 0.0001	SL-3 SL-8										< 0.00998 U < 5.99 U	< 0.0005 U < 0.00798 U	< 0.01 U < 1.98 U
cis-Nonachlor	5103-71-9	mg/kg mg/kg	0.0001	GL-0			-							< 0.02 U	< 0.00798 U	< 4.44 U
		mg/kg	6	SL-9	_		-	_		-	_			< 0.00998 U	< 0.001 U	< 0.01 U
Delta-BHC	319-86-8								1							< 11.1 U
Delta-BHC Dieldrin	60-57-1	mg/kg	6.17E-07	SL-3	_	-								< 0.02 U	< 0.001 U	
Dieldrin Endosulfan I	60-57-1 959-98-8	mg/kg mg/kg	0.00121	SL-3									-	< 0.00998 U	< 0.0005 U	< 0.01 U
Dieldrin Endosulfan I Endosulfan II	60-57-1 959-98-8 33213-65-9	mg/kg mg/kg mg/kg	0.00121 0.00121	SL-3 SL-3						-		_	=	< 0.00998 U < 3.99 U	< 0.0005 U < 0.001 U	< 0.01 U < 1.98 U
Dieldrin Endosulfan I	60-57-1 959-98-8	mg/kg mg/kg	0.00121	SL-3	 	 	 	 	 		 	 	 	< 0.00998 U	< 0.0005 U	< 0.01 U

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	HA-02 03/11/2021 HA-2-2-3	MW-04 03/04/2021 MW-4-0-1	MW-04 03/04/2021 MW-4-4-5	MW-05 03/05/2021 MW-5-0-1	MW-06 03/05/2021 MW-6-0-1	MW-06 03/05/2021 MW-6-4-5	MW-07 03/09/2021 MW-7-0-1	MW-07 03/09/2021 MW-7-3-5	MW-07 03/09/2021 MW-7-5-6	MW-08 03/09/2021 MW-8-0-1	MW-08 03/09/2021 MW-8-3-5
			SPM_RI_VADOSE- SOILS SLS	Depth	2 - 3 ft	0 - 1 ft	4 - 5 ft	0 - 1 ft	0 - 1 ft	4 - 5 ft	0 - 1 ft	3 - 5 ft	5 - 6 ft	0 - 1 ft	3 - 5 ft
Analyte	CAS RN	Unit	2022.02	Screening Level Source											
Total PAHs (ND=0)	T-PAH	mg/kg			0.0845 J	0.314 J		0.295 J	0.168 J	0.0167 J	0.163 J	-	0.0105 J	0.410 J	-
Total cPAHs TEQ (ND = 0)	T-cPAH-0U T-cPAH-1/2U	mg/kg	0.00031	SL-3 SL-3	0.00554 J 0.00554 J	0.0348 J		0.0285 0.0285	0.0200 J 0.0200 J	0.00240 J 0.00265 J	0.0217 J 0.0217 J		0.00144 J 0.00243 J	0.0596 0.0596	
Total cPAHs TEQ (ND = 1/2 RDL) Total cPAHs TEQ (ND multiplier Unknown)	T-cPAH-1/20	mg/kg mg/kg	0.00031	SL-3	0.00554 J	0.0347 J		0.0265	0.0200 J	0.00265 J	0.0217 J		0.00243 J	0.0596	
Semivolatile Organic Compounds	1 017111 011110	mgrsg	0.00001	02.0			•								
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.00133	SL-3	< 0.0994 U	< 0.1 U		< 0.998 U	< 0.1 U	< 0.0996 U	< 0.0995 U		< 0.0995 U	< 0.1 U	
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.97	SL-3	< 0.0994 U < 0.0994 U	< 0.1 U		< 0.998 U < 0.998 U	< 0.1 U	< 0.0996 U	< 0.0995 U < 0.0995 U		< 0.0995 U < 0.0995 U	< 0.1 UJ	
2,4-Dichlorophenol 2,4-Dimethylphenol	120-83-2 105-67-9	mg/kg mg/kg	0.0694 0.029	SL-3 SL-8	< 0.0994 U	< 0.1 U < 0.1 U		< 0.998 U	< 0.1 U < 0.1 U	< 0.0996 U < 0.0996 U	< 0.0995 U	- -	< 0.0995 U	< 0.1 U < 0.1 U	
2,4-Dinitrophenol	51-28-5	mg/kg	0.4	SL-3	< 0.199 UJ	< 0.1 UJ	-	< 2 UJ	< 0.2 UJ	< 0.199 UJ	< 0.199 UJ		< 0.199 UJ	< 0.1 U	
2,4-Dinitrotoluene	121-14-2	mg/kg	0.00279	SL-3	< 0.0994 U	< 0.1 U		< 0.998 U	< 0.1 U	< 0.0996 U	< 0.0995 U		< 0.0995 U	< 0.1 U	
2,6-Dinitrotoluene	606-20-2	mg/kg	0.667	SL-1	< 0.0994 U	< 0.1 U		< 0.998 U	< 0.1 U	< 0.0996 U	< 0.0995 U		< 0.0995 U	< 0.1 U	
2-Chloronaphthalene	91-58-7 95-57-8	mg/kg	5.36 0.2	SL-3 SL-3	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U		< 0.2 U < 0.2 U	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.0199 U < 0.0199 U		< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U	-
2-Chlorophenol 2-Methylphenol	95-48-7	mg/kg mg/kg	0.069	SL-8	< 0.0199 U	0.0902		< 0.2 U	< 0.02 U	< 0.0199 U	< 0.0199 U		< 0.0199 U	< 0.02 U	
2-Nitroaniline	88-74-4	mg/kg	800	SL-1	< 0.0994 U	< 0.1 U		< 0.998 U	< 0.1 U	< 0.0996 U	< 0.0995 U		< 0.0995 U	< 0.1 U	
2-Nitrophenol	88-75-5	mg/kg			< 0.0199 U	< 0.02 U		< 0.2 U	< 0.02 U	< 0.0199 U	< 0.0199 U	-	< 0.0199 U	< 0.02 U	-
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3.43E-05	SL-3	< 0.0994 U	< 0.1 U		< 0.998 U	< 0.1 U	< 0.0996 U	< 0.0995 U		< 0.0995 U	< 0.1 U	
3-Nitroaniline 4,6-Dinitro-2-methylphenol	99-09-2 534-52-1	mg/kg mg/kg	0.134	SL-3	< 0.0994 U < 0.199 U	< 0.1 U < 0.2 UJ		< 0.998 U < 2 UJ	< 0.1 U < 0.2 UJ	< 0.0996 U < 0.199 UJ	< 0.0995 U < 0.199 U		< 0.0995 U < 0.199 U	< 0.1 U < 0.2 U	
4-Bromophenyl phenyl ether	101-55-3	mg/kg	0.104	02-0	< 0.0199 U	< 0.02 U		< 0.2 U	< 0.02 U	< 0.0199 U	< 0.0199 U		< 0.0199 U	< 0.02 U	
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.498	SL-3	< 0.0994 U	< 0.1 U		< 0.998 U	< 0.1 U	< 0.0996 U	< 0.0995 U		< 0.0995 U	< 0.1 U	
4-Chloroaniline	106-47-8	mg/kg	5	SL-1	< 0.0994 U	< 0.1 U		< 0.998 U	< 0.1 U	< 0.0996 U	< 0.0995 U		< 0.0995 U	< 0.1 U	
4-Chlorophenyl phenyl ether	7005-72-3 106-44-5	mg/kg	0.67	SL-8	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U		< 0.2 U	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.0199 U < 0.0199 U	-	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 UJ	
4-Methylphenol 4-Nitroaniline	100-44-5	mg/kg mg/kg	50	SL-6 SL-1	0.189	0.965		9.12	0.020	< 0.0199 U	< 0.0199 U		< 0.0199 U	< 0.02 UJ	
4-Nitrophenol	100-02-7	mg/kg	7	SL-9	< 0.0994 U	< 0.1 U		< 0.998 U	< 0.1 U	< 0.0996 U	< 0.0995 U		< 0.0995 U	< 0.1 U	
Benzoic acid	65-85-0	mg/kg	0.65	SL-8	< 0.199 U	< 0.2 UJ		< 2 UJ	< 0.2 UJ	< 0.199 UJ	< 0.199 UJ		< 0.199 UJ	< 0.2 UJ	
Benzyl alcohol	100-51-6	mg/kg	0.057	SL-8	< 0.0199 U	< 0.02 U		< 0.2 U	< 0.02 U	< 0.0199 U	< 0.0199 U		< 0.0199 U	< 0.02 U	
Benzyl butyl phthalate Bis(2-chloro-1-methylethyl) ether	85-68-7 108-60-1	mg/kg mg/kg	0.00361 5.09	SL-3 SL-3	< 0.0199 U < 0.0199 U	0.0913 < 0.02 U		< 0.2 U < 0.2 U	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.0199 U < 0.0199 U		< 0.0199 U < 0.0199 U	0.0126 J < 0.02 U	
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	5.09	3L-3	< 0.0199 U	< 0.02 U		< 0.2 U	< 0.02 U	< 0.0199 U	< 0.0199 U		< 0.0199 U	< 0.02 U	
Bis(2-chloroethyl) ether	111-44-4	mg/kg	0.000331	SL-3	< 0.0199 U	< 0.02 U		< 0.2 U	< 0.02 U	< 0.0199 U	< 0.0199 U		< 0.0199 U	< 0.02 U	
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.102	SL-3	< 0.0497 U	0.258		< 0.499 U	0.0654	< 0.0498 U	0.0671		< 0.0498 U	0.0665	
Carbazole Dibenzofuran	86-74-8 132-64-9	mg/kg ma/ka	0.54	SL-8	< 0.0199 U	< 0.02 U < 0.015 U		< 0.2 U	< 0.02 U < 0.00498 U	< 0.0199 U < 0.00496 U	< 0.0199 U < 0.00498 U	-	< 0.0199 U < 0.00496 U	< 0.02 U < 0.005 U	
Diethyl phthalate	84-66-2	mg/kg	0.54	SL-8	0.00162 J 0.0185 J	< 0.015 U		0.00245 J < 0.2 U	< 0.00498 U	< 0.00496 U	0.263		0.00496 0	< 0.005 U	
Dimethyl phthalate	131-11-3	mg/kg	0.071	SL-8	< 0.0199 U	0.0095 J		0.292	0.0358	< 0.0199 U	0.0262		< 0.0199 U	0.114	
Di-n-butyl phthalate	84-74-2	mg/kg	0.283	SL-3	0.0054 J	0.378		0.0648 J	0.0077 J	< 0.0199 U	0.0093 J		< 0.0199 U	0.0166 J	
Di-n-octyl phthalate	117-84-0	mg/kg	6.2	SL-8	< 0.0199 U	< 0.02 U		< 0.2 U	< 0.02 U	< 0.0199 U	< 0.0199 U		< 0.0199 U	< 0.02 U	
Hexachlorobenzene Hexachlorobutadiene	118-74-1 87-68-3	mg/kg mg/kg	8.02E-06 0.000212	SL-3 SL-3	< 0.00249 U < 0.00249 U	< 0.00996 U < 0.00633 U		< 0.00998 U < 0.00804 U	< 0.00497 U < 0.00497 U	< 0.0005 U < 0.0005 U	< 0.0005 U < 0.0005 U		< 0.0005 U < 0.0005 U	< 0.0005 U	
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.032	SL-3	< 0.0994 UJ	< 0.1 UJ	-	< 0.998 UJ	< 0.1 UJ	< 0.0996 UJ	< 0.0995 UJ		< 0.0995 UJ	< 0.1 UJ	
Hexachloroethane	67-72-1	mg/kg	0.000161	SL-3	< 0.0199 U	< 0.02 U		< 0.2 U	< 0.02 U	< 0.0199 U	< 0.0199 U		< 0.0199 U	< 0.02 U	
Isophorone	78-59-1	mg/kg	0.583	SL-3	< 0.0199 U	1.59		< 0.2 U	< 0.02 U	< 0.0199 U	< 0.0199 U		< 0.0199 U	< 0.02 U	
Nitrobenzene	98-95-3 621-64-7	mg/kg	0.638 0.000551	SL-3 SL-3	< 0.0199 U < 0.0199 U	0.0314 < 0.02 U		0.136 J < 0.2 U	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	0.0111 J < 0.0199 U		0.0268 < 0.0199 U	< 0.02 U < 0.02 U	
N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	86-30-6	mg/kg mg/kg	0.000331	SL-8	< 0.0199 U	< 0.02 U		< 0.2 U	< 0.02 U	< 0.0199 U	< 0.0199 U		< 0.0199 U	< 0.02 U	
Pentachlorophenol	87-86-5	mg/kg	3.17E-05	SL-3	0.0652 J	0.118 J		< 0.998 UJ	< 0.1 UJ	< 0.0996 UJ	< 0.0995 UJ		< 0.0995 UJ	< 0.1 UJ	
Phenol	108-95-2	mg/kg	0.42	SL-8	0.0136 J	0.0798		< 0.2 U	< 0.02 U	< 0.0199 U	< 0.0199 U		< 0.0199 U	< 0.02 U	
Pesticides and Herbicides	50.40.0		1		. 0 000 11	. 0 0400 11			. 0 0000411	. 0 004 11	. 0 00 100 11	1	. 0 004 11	- 0.004.11	
2,4'-DDD 2,4'-DDE	53-19-0 3424-82-6	mg/kg mg/kg			< 0.329 U < 1.11 U	< 0.0199 U < 7.96 U		< 0.02 U < 5.99 U	< 0.00994 U < 0.00994 U	< 0.001 U < 0.001 U	< 0.00499 U < 0.001 U	-	< 0.001 U < 0.001 U	< 0.001 U < 0.001 U	
2,4'-DDT	789-02-6	mg/kg			< 0.00498 U	< 7.96 U		< 5.99 U	< 0.00994 U	< 0.001 U	< 0.001 U		< 0.001 U	< 0.001 U	
4,4'-DDD	72-54-8	mg/kg	7.27E-06	SL-3	< 0.00498 U	< 0.0199 U		< 0.02 U	< 0.00994 U	< 0.001 U	< 0.001 U		< 0.001 U	< 0.001 U	
4,4'-DDE	72-55-9	mg/kg	1.52E-06	SL-3	< 0.329 U	< 5.97 U		< 3.99 U	< 0.00994 U	< 0.001 U	< 0.001 U		< 0.001 U	< 0.001 U	
4,4'-DDT	50-29-3	mg/kg	1.63E-05	SL-3	< 0.553 U	< 13.9 U		< 9.98 U	< 0.00994 U	< 0.015 U	< 0.001 U		< 0.001 U	< 0.00798 U	
Aldrin Alpha-BHC	309-00-2 319-84-6	mg/kg mg/kg	4.01E-08 1.88E-06	SL-3 SL-3	< 0.00249 U < 0.00249 U	0.074 < 0.00996 U		0.0694 < 0.00998 U	< 0.00497 U < 0.00497 U	< 0.0005 U < 0.0005 U	< 0.0005 U < 0.0005 U		< 0.0005 U < 0.002 U	< 0.0005 U < 0.0005 U	
Beta-BHC	319-85-7	mg/kg	6.55E-05	SL-3	< 0.00249 U	< 0.00996 U		< 0.00998 U		< 0.0005 U	< 0.0005 U		< 0.002 U	< 0.0005 U	
cis-Chlordane	5103-71-9	mg/kg	0.0001	SL-8	< 0.00249 U	< 3.98 U		< 0.00998 U	< 0.00497 U	< 0.0005 U	< 0.0005 U		< 0.0005 U	< 0.0005 U	
cis-Nonachlor	5103-73-1	mg/kg		01.0	< 0.00498 U	< 0.0199 U		< 0.02 U	< 0.00994 U	< 0.001 U	< 0.001 U		< 0.001 U	< 0.001 U	
Delta-BHC Dieldrin	319-86-8 60-57-1	mg/kg mg/kg	6 6.17E-07	SL-9 SL-3	< 0.00249 U < 1.11 U	< 0.00996 U 0.85		< 0.00998 U < 3.99 U	< 0.00497 U < 0.00994 U	< 0.0005 U < 0.00799 U	< 0.0005 U < 0.00599 U		< 0.0005 U < 0.001 U	< 0.0005 U < 0.001 U	
Endosulfan I	959-98-8	mg/kg	0.00121	SL-3	< 0.00249 U	< 0.00996 U		< 0.00998 U	< 0.00994 U	< 0.00799 U	< 0.00599 U		< 0.001 U	< 0.001 U	
Endosulfan II	33213-65-9	mg/kg	0.00121	SL-3	< 0.274 U	< 1.99 U		< 3.99 U	< 0.00994 U	< 0.001 U	< 0.001 U		< 0.001 U	< 0.001 U	
Endosulfan Sulfate	1031-07-8	mg/kg	2.01	SL-3	< 0.00498 U	< 0.0199 U		< 2 U	< 0.00994 U	< 0.001 U	< 0.001 U		< 0.001 U	< 0.001 U	
Endrin	72-20-8	mg/kg	0.00044	SL-3	< 0.00498 UJ	< 0.0199 U		< 0.02 U	< 0.00994 U	< 0.001 U	< 0.001 UJ		< 0.001 UJ	< 0.001 UJ	
Endrin Aldehyde	7421-93-4	mg/kg	0.00243	SL-3	< 0.11 U	< 3.98 U		< 2 U	< 0.00994 U	< 0.004 U	< 0.001 U		< 0.001 U	< 0.00299 U	1

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	MW-09 03/09/2021 MW-9-0-1 0 - 1 ft	MW-09 03/09/2021 MW-9-5-6 5 - 6 ft	MW-10 03/08/2021 MW-10-0-1 0 - 1 ft	MW-11 03/08/2021 MW-11-0-1 0 - 1 ft	MW-11 03/08/2021 MW-11-3-5 3 - 5 ft	MW-12 03/03/2021 MW-12-0-1 0 - 1 ft	MW-12 03/03/2021 MW-12-3-5 3 - 5 ft	MW-13 03/01/2021 MW-13-0-1 0 - 1 ft	MW-13 03/01/2021 MW-13-3-5 3 - 5 ft	MW-14 03/10/2021 MW-14A-0-1 0 - 1 ft	MW-14 03/01/2021 MW-14-4.5-5 4.5 - 5 ft
Analyte	CAS RN	Unit	SPM_RI_VADOSE- SOILS_SLS 2022.02	Screening Level Source							0 0 11	· · · ·		· · · ·	
Total PAHs (ND=0)	T-PAH	mg/kg	_2022.02	Source	< 0.005 U	0.0125 J	0.490 J	0.505 J		0.0644 J	0.160 J	0.0735 J	0.0886 J	0.399 J	0.0259 J
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg	0.00031	SL-3	< 0 U	0.000988 J	0.0906	0.0583 J		0.00823 J	0.0184 J	0.0101 J	0.0119 J	0.0432	0.00278 J
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg	0.00031	SL-3	< 0.003775 U	0.00198 J	0.0906	0.0583 J		0.00823 J	0.0184 J	0.0101 J	0.0119 J	0.0432	0.00278 J
Total cPAHs TEQ (ND multiplier Unknown) Semivolatile Organic Compounds	T-cPAH-UnkU	mg/kg	0.00031	SL-3											
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.00133	SL-3	< 0.1 U	< 0.0995 U	< 0.0999 U	< 0.0997 U		I			I	< 0.0997 U	< 0.0997 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.97	SL-3	< 0.1 U	< 0.0995 U	< 0.0999 U	< 0.0997 U	-		_			< 0.0997 U	< 0.0997 U
2,4-Dichlorophenol	120-83-2	mg/kg	0.0694	SL-3	< 0.1 U	< 0.0995 U	< 0.0999 U	< 0.0997 U	-		-		-	< 0.0997 U	< 0.0997 U
2,4-Dimethylphenol	105-67-9	mg/kg	0.029	SL-8	< 0.1 U	< 0.0995 U	< 0.0999 U	< 0.0997 U					-	< 0.0997 U	< 0.0997 U
2,4-Dinitrophenol 2.4-Dinitrotoluene	51-28-5 121-14-2	mg/kg mg/kg	0.4 0.00279	SL-3 SL-3	< 0.2 UJ < 0.1 U	< 0.199 UJ < 0.0995 U	< 0.2 UJ < 0.0999 U	< 0.199 UJ < 0.0997 U			-		-	< 0.199 UJ < 0.0997 U	< 0.199 UJ < 0.0997 U
2,6-Dinitrotoluene	606-20-2	mg/kg mg/kg	0.00279	SL-3 SL-1	< 0.1 U	< 0.0995 U	< 0.0999 U	< 0.0997 U	-					< 0.0997 U	< 0.0997 U
2-Chloronaphthalene	91-58-7	mg/kg	5.36	SL-3	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	-		_			< 0.0199 U	< 0.0199 U
2-Chlorophenol	95-57-8	mg/kg	0.2	SL-3	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U			-	-	-	< 0.0199 U	< 0.0199 U
2-Methylphenol	95-48-7	mg/kg	0.069	SL-8	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U			-		-	< 0.0199 U	< 0.0199 U
2-Nitroaniline	88-74-4 88-75-5	mg/kg	800	SL-1	< 0.1 U < 0.02 U	< 0.0995 U	< 0.0999 U	< 0.0997 U			-			< 0.0997 U < 0.0199 U	< 0.0997 U
2-Nitrophenol 3,3'-Dichlorobenzidine	88-75-5 91-94-1	mg/kg mg/kg	3.43E-05	SL-3	< 0.02 U	< 0.0199 U < 0.0995 U	< 0.02 U < 0.0999 U	< 0.0199 U < 0.0997 U						< 0.0199 U < 0.0997 U	< 0.0199 U < 0.0997 U
3-Nitroaniline	99-09-2	mg/kg mg/kg	J.+JE-UJ	OL-3	< 0.1 U	< 0.0995 U	< 0.0999 U	< 0.0997 U	-					< 0.0997 U	< 0.0997 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.134	SL-3	< 0.1 U	< 0.199 U	< 0.0333 U	< 0.199 U		-	_			< 0.199 U	< 0.199 U
4-Bromophenyl phenyl ether	101-55-3	mg/kg			< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	-		-		-	< 0.0199 U	< 0.0199 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.498	SL-3	< 0.1 U	< 0.0995 U	< 0.0999 U	< 0.0997 U						< 0.0997 U	< 0.0997 U
4-Chloroaniline	106-47-8	mg/kg	5	SL-1	< 0.1 U	< 0.0995 U	< 0.0999 U	< 0.0997 U			-			< 0.0997 U	< 0.0997 U
4-Chlorophenyl phenyl ether	7005-72-3 106-44-5	mg/kg	0.67	SL-8	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 UJ	< 0.0199 U < 0.0199 UJ			-		-	< 0.0199 U < 0.0199 U	< 0.0199 UJ < 0.0199 UJ
4-Methylphenol 4-Nitroaniline	100-44-5	mg/kg mg/kg	50	SL-6 SL-1	< 0.02 U	< 0.0199 U	< 0.02 UJ	< 0.0199 UJ						< 0.0199 U	< 0.0199 UJ
4-Nitrophenol	100-01-0	mg/kg	7	SL-9	< 0.1 U	< 0.0995 U	< 0.0999 U	< 0.0997 U	-					< 0.0997 U	< 0.0997 UJ
Benzoic acid	65-85-0	mg/kg	0.65	SL-8	< 0.2 UJ	< 0.199 UJ	< 0.2 UJ	< 0.199 UJ			-			< 0.199 UJ	< 0.199 U
Benzyl alcohol	100-51-6	mg/kg	0.057	SL-8	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U						0.138	< 0.0199 UJ
Benzyl butyl phthalate	85-68-7	mg/kg	0.00361	SL-3	< 0.02 U	< 0.0199 U	< 0.02 U	0.0303			-			< 0.0199 U	< 0.0199 U
Bis(2-chloro-1-methylethyl) ether Bis(2-chloroethoxy)methane	108-60-1 111-91-1	mg/kg mg/kg	5.09	SL-3	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U			-			< 0.0199 U < 0.0199 U	< 0.0199 U < 0.0199 U
Bis(2-chloroethyl) ether	111-44-4	mg/kg	0.000331	SL-3	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U					-	< 0.0199 U	< 0.0199 U
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.102	SL-3	< 0.05 U	< 0.0497 U	< 0.0499 U	0.0811			_			0.0521	< 0.0499 U
Carbazole	86-74-8	mg/kg			< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	-		-		-	0.0091 J	< 0.0199 U
Dibenzofuran	132-64-9	mg/kg	0.54	SL-8	< 0.005 U	< 0.00498 U	< 0.005 U	< 0.0249 U		< 0.00498 U	< 0.005 U	< 0.00497 U	< 0.005 U	0.00298 J	< 0.00499 U
Diethyl phthalate	84-66-2 131-11-3	mg/kg	0.2 0.071	SL-8 SL-8	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U	0.982 0.0178 J						< 0.0199 U 0.271	< 0.0199 U < 0.0199 U
Dimethyl phthalate Di-n-butyl phthalate	84-74-2	mg/kg mg/kg	0.071	SL-3	< 0.02 U	< 0.0199 U	< 0.02 U	0.0178 J	 - -					0.271 0.0055 J	< 0.0199 U
Di-n-octyl phthalate	117-84-0	mg/kg	6.2	SL-8	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U			_		_	< 0.0199 U	< 0.0199 U
Hexachlorobenzene	118-74-1	mg/kg	8.02E-06	SL-3	< 0.0005 U	< 0.0005 U	< 0.02 U	< 0.0199 U			-			< 0.0199 U	< 0.0199 U
Hexachlorobutadiene	87-68-3	mg/kg	0.000212	SL-3	< 0.0005 U	< 0.0005 U	< 0.00517 U	< 0.00552 U		< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U	< 0.00465 U	< 0.00732 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.032	SL-3	< 0.1 UJ	< 0.0995 UJ	< 0.0999 UJ	< 0.0997 UJ			-			< 0.0997 UJ	< 0.0997 UJ
Hexachloroethane Isophorone	67-72-1 78-59-1	mg/kg mg/kg	0.000161 0.583	SL-3 SL-3	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U			-			< 0.0199 U < 0.0199 U	< 0.0199 U < 0.0199 UJ
Nitrobenzene	98-95-3	mg/kg	0.638	SL-3	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U	-					< 0.0199 U	< 0.0199 U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.000551	SL-3	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U						< 0.0199 U	< 0.0199 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.028	SL-8	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U			-			< 0.0199 U	< 0.0199 U
Pentachlorophenol	87-86-5	mg/kg	3.17E-05	SL-3	< 0.1 UJ	< 0.0995 UJ	< 0.0999 UJ	< 0.0997 UJ			-			< 0.0997 UJ	< 0.0997 UJ
Phenol Pesticides and Herbicides	108-95-2	mg/kg	0.42	SL-8	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.0199 U			-			< 0.0199 U	< 0.0199 U
2,4'-DDD	53-19-0	mg/kg			< 0.001 U	< 0.001 U			-				T		
2,4'-DDE	3424-82-6	mg/kg			< 0.001 U	< 0.001 U					-				
2,4'-DDT	789-02-6	mg/kg			< 0.001 U	< 0.001 U	-		-				_		
4,4'-DDD	72-54-8	mg/kg	7.27E-06	SL-3	< 0.001 U	< 0.001 U		-	-		_		-		
4,4'-DDE	72-55-9	mg/kg	1.52E-06	SL-3	< 0.001 U	< 0.001 U	-				-			-	
4,4'-DDT Aldrin	50-29-3 309-00-2	mg/kg mg/kg	1.63E-05 4.01E-08	SL-3 SL-3	< 0.001 U 0.00079	< 0.001 U < 0.0005 U									
Alpha-BHC	319-84-6	mg/kg	1.88E-06	SL-3	< 0.00079 < 0.0005 U	< 0.0005 U	-				_		-		-
Beta-BHC	319-85-7	mg/kg	6.55E-05	SL-3	< 0.0005 U	< 0.0005 U			-		-				1
cis-Chlordane	5103-71-9	mg/kg	0.0001	SL-8	< 0.0005 U	< 0.0005 U			-		_		-		
cis-Nonachlor	5103-73-1	mg/kg	_	01.0	< 0.001 U	< 0.001 U	-								
Delta-BHC Dieldrin	319-86-8 60-57-1	mg/kg mg/kg	6 6.17E-07	SL-9 SL-3	< 0.0005 U < 0.001 U	< 0.0005 U < 0.001 U	-				-				
Endosulfan I	959-98-8	mg/kg mg/kg	0.00121	SL-3 SL-3	< 0.001 U < 0.0005 U	< 0.001 U < 0.0005 U	- -		 						
Endosulfan II	33213-65-9	mg/kg	0.00121	SL-3	< 0.0003 U	< 0.0003 U		-	-						
Endosulfan Sulfate	1031-07-8	mg/kg	2.01	SL-3	< 0.001 U	< 0.001 U	-	-	-		-		-		
Endrin	72-20-8	mg/kg	0.00044	SL-3	< 0.001 UJ	< 0.001 UJ		-							
Endrin Aldehyde	7421-93-4	mg/kg	0.00243	SL-3	< 0.001 U	< 0.001 U	I	I	-	l			I	-	

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

Sample MW-15-04 MW-15-05 B8-02-1 B8-11-15 B	10/01/2007 10/01/20 SB-14-3 SB-15-; 3 - 5 ft 4 - 6 ft <0.48 U 2.53 \(< 0.0 U < 0.0 U \)	.5 SB-16-3.5 SB18-5.0-0
Section Color Parts (No. 1) Parts Parts (No. 1) Pa	< 0.48 U 2.53 .	4-6ft 5-5f
CAS FRN		
Total FANE TEQ (ND 0 T-PAH marks 0.0033 St.3 0.0092 0.0094 0.0092 0.00221 0.00221 0.00030 0.00098 V < 0.004 0.0016 0.00221 0		
Total PAPA TEQ (ND = 0) T-pPAH-(0) mg/hg 0.00031 SL3 0.0192 J 0.000470		6.39 J
Total PSP4 TEQ IXD multiplier Unknown TeP84 Unknown TeP8		0.0259 J
Semboratic Organic Compounds	< 0.3624 U < 0.7474	5 U 0.670 J
2.4.5 Trichrosphernol 88-06-2 mg/s		
24.6 Trindscordened 88.06.2 mg/kg 0.0694 \$1.3 \$0.0996 U \$-0.0996 U		
24-Direktophened 120-85-2 mg/kg		
24-Dintrophenel		
24-Dintrotolume	< 2.4 R < 5 R	< 4.6 R
25_Dintrolouleme		
2.Chlorophenol 95-57-8 mg/kg 0.2 S.L-3 < 0.0199 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.0799 U < 0.07		
2.Methylphenol 95-48-7 mg/kg 0.0696 SL-8 < 0.0199 U < 0.0090 U < 0.025 U < 0.0990 U < 0.0093 U < 0.0093 U < 0.0083 U < 0.0084 U < 0.048		
2-Nitropalmine		
2-Nitrophenel 88-75-5 mg/kg 3.43E-05 SL-3 < 0.0994 U < 0.0996 U	< 0.48 U < 0.99	J < 0.92 U
33-Dichorobenzidine		
46-Dintro-2-methylphenol 534-52-1 mg/kg 0.134 SL-3 < 0.0199 U < 0.199 U		
## Chiron-Smethylphenyl ether		
4-Chloro-3-methylphenol 59-507 mg/kg 5.8 \$1.1 \$0.0996 U		
4-Chloropanline		
4-Chlorophenyl phenyl ether 7005-72-3 mg/kg		
A-Nitropenion 100-01-6		
A-Nitrophenol 100-02-7 mg/kg 7 SL-9 < 0.0994 U < 0.0996 U	< 0.48 U < 0.99	J < 0.92 U
Elerzoric acid		
Benzyl butyl phthalate	< 9.6 U < 20 U	
Bis/2-chloro-1-methylethyl) ether 108-60-1 mg/kg 5.09 SL-3 < 0.0199 U < 0.0199 U Bis/2-chloroethyl) ether 111-91-1 mg/kg 0.000331 SL-3 < 0.0199 U < 0.0199 U	< 0.96 U < 2 U	< 1.9 U
Bis(2-chloroethoxy)methane	< 0.48 U < 0.99	
Bis(2-chloreethyl) ether		
Carbazole		
Diebrazofuran 132-64-9 mg/kg	< 4.8 U 2.8 J	7 J
Diethy phthalate	 < 0.48 U < 0.99	J < 0.92 U
Dimethyl phthalate 131-11-3 mg/kg 0.071 SL-8 < 0.0199 U < 0.0199 U < 0.009 U < 0.25 U 0.23 < 0.0093 U < 0.0098 U < 0.48		
Di-n-butyl phthalate 84-74-2 mg/kg 0.283 SL-3 0.223 < 0.0199 U < 0.018 U < 0.42 U < 0.019 U < 0.019 U < 0.02 U < 0.96	< 0.48 U < 0.99	
Hexachlorobenzene	< 0.96 U 1.3 J	1.1 J
Hexachlorobutadiene 87-88-3 mg/kg 0.000212 SL-3 < 0.0005 U < 0.009 U < 0.25 U < 0.017 U < 0.0093 U < 0.0098 U < 0.48		
Hexachlorocyclopentadiene		
Hexachloroethane 67-72-1 mg/kg 0.000161 SL-3 < 0.0199 U < 0.0199 U		
Nitrobenzene 98-95-3 mg/kg 0.638 SL-3 < 0.0199 U < 0.0199 U N-Nitroso-din-propylamine 621-64-7 mg/kg 0.009551 SL-3 < 0.0199 U < 0.0199 U		
N-Nitroso-di-n-propylamine 621-64-7 mg/kg 0.000551 SL-3 <0.0199 U <0.0199 U N-Nitrosodiphenylamine 86-30-6 mg/kg 0.028 SL-8 <0.0199 U <0.0199 U <0.0199 U <0.009 U <0.05 U <0.099 U <0.0099 U <0.0098 U <0.088 U <0.48 U <0.090 U <0.090 U <0.090 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.098 U <0.098 U <0.098 U <0.098 U <0.098 U <0.098 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.099 U <0.0		
N-Nitrosodiphenylamine 86-30-6 mg/kg 0.028 SL-8 < 0.0199 U < 0.0199 U < 0.009 U < 0.025 U < 0.099 U < 0.0093 U < 0.0098 U < 0.48 Pentachlorophenol 87-86-5 mg/kg 3.17E-05 SL-3 < 0.0994 U < 0.0996 U < 0.09 U 2.3 J 2.8 < 0.093 U < 0.098 U < 4.8 U Phenol 108-95-2 mg/kg 0.42 SL-8 < 0.0199 U < 0.0199 U < 0.0199 U < 0.03 U < 0.03 U < 0.083 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U < 0.03 U		
Pentachlorophenol 87-86-5 mg/kg 3.17E-05 SL-3 < 0.0994 U < 0.0996 U < 0.09 U 2.3 J 2.8 < 0.093 U < 0.098 U < 4.8 t	< 0.48 U < 0.99	J < 0.92 U
Pesticides and Herbicides	< 4.8 U < 9.9 I	< 9.2 U
	< 1.5 U < 3 U	< 2.8 U
	< 0.5 U < 0.28	J < 0.67 U
	< 0.077 U < 0.24	
2,4'-DDT 789-02-6 mg/kg < 0.001 U < 0.001 U 0.00051 3.4 J 0.37 0.0073 J < 0.001 U 0.77	0.77 1.3	3.6 J
4.4-DDD 72-54-8 mg/kg 7.27E-06 SL-3 <0.001 U <0.0019 U 0.8 0.051 <0.0099 U <0.001 U 0.58		0.53
	0.37 J < 0.18 1.1 J 1.5 J	J < 0.3 U
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1.9
Alpha-BHC 319-84-6 mg/kg 1.88E-06 SL-3 <0.0005 U <0.0005 U	i i	
Beta-BHC 319-85-7 mg/kg 6.55E-05 SL-3 <0.0005 U		
cis-Chlordane 5103-71-9 mg/kg 0.0001 SL-8 < 0.0005 U < 0.0005 U		
cis-Nonachlor 5103-73-1 mg/kg < 0.001 U < 0.001 U		
Deleidrin 60-57-1 mg/kg 6.17E-07 SL-3 <0.00599 U <0.001 U <0.00099 U <0.14 U <0.035 U 0.0021 <0.001 U 0.92	0.92 < 0.11	
Endosulfan I 959-98-8 mg/kg 0.00121 SL-3 < 0.0005 U < 0.0005 U		
Endosulfan 33213-65-9 mg/kg		
Endosulfan Sulfate 1031-07-8 mg/kg 2.01 SL-3 < 0.001 U < 0.001 U <th< td=""><td></td><td></td></th<>		

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	SB-20 07/27/2011 SB20-4.0-072711 4 - 4 ft	SB-23 07/28/2011 SB23-1.0-072811 1 - 1 ft	SB-26 03/04/2021 SB-26-0-1 0 - 1 ft	SB-26 03/03/2021 SB-26-4-5 4 - 5 ft	SB-27 03/09/2021 SB-27-0-1 0 - 1 ft	SB-27 03/09/2021 SB-27-3-5 3 - 5 ft	SB-28 03/01/2021 SB-28-0-1 0 - 1 ft	SB-28 03/01/2021 SB-28-3-5 3 - 5 ft	SB-29 03/01/2021 SB-29-0-1 0 - 1 ft	SB-29 03/01/2021 SB-29A-3-5 3 - 5 ft
			SPM_RI_VADOSE- SOILS_SLS	Depth Screening Level	4-410	1-11	0-111	4-511	0-111	3-511	0-111	3-511	0-111	3-511
Analyte	CAS_RN	Unit	2022.02	Source										
Total PAHs (ND=0)	T-PAH	mg/kg	0.00004	01.0			3.07 J		0.702 J		0.249 J		0.248 J	0.00372 J
Total cPAHs TEQ (ND = 0) Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-0U T-cPAH-1/2U	mg/kg mg/kg	0.00031 0.00031	SL-3 SL-3			0.391 0.391		0.0810 J 0.0810 J		0.0346 0.0346		0.0354 0.0354	< 0 U < 0.00376745 U
Total cPAHs TEQ (ND = 1/2 RDE) Total cPAHs TEQ (ND multiplier Unknown)	T-cPAH-UnkU	mg/kg	0.00031	SL-3			0.391	-			0.0346		0.0354	
Semivolatile Organic Compounds	1 01741 01110	mgrsg	0.00001	02.0										
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.00133	SL-3			< 0.1 U	-	< 0.0996 U		< 0.0997 U		< 0.0998 U	< 0.1 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.97	SL-3			< 0.1 U		< 0.0996 U		< 0.0997 U		< 0.0998 U	< 0.1 U
2,4-Dichlorophenol	120-83-2	mg/kg	0.0694	SL-3			< 0.1 U		< 0.0996 U		< 0.0997 U		< 0.0998 U	< 0.1 U
2,4-Dimethylphenol 2,4-Dinitrophenol	105-67-9 51-28-5	mg/kg mg/kg	0.029 0.4	SL-8 SL-3			< 0.1 U < 0.2 UJ		< 0.0996 U < 0.199 UJ		< 0.0997 U < 0.199 UJ		< 0.0998 U < 0.2 UJ	< 0.1 U < 0.2 UJ
2.4-Dinitrophenol	121-14-2	mg/kg	0.00279	SL-3			< 0.1 U		< 0.199 U		< 0.199 U		< 0.0998 U	< 0.1 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.667	SL-1			< 0.1 U	-	< 0.0996 U		< 0.0997 U		< 0.0998 U	< 0.1 U
2-Chloronaphthalene	91-58-7	mg/kg	5.36	SL-3			< 0.02 U		< 0.0199 U		< 0.0199 U		< 0.02 U	< 0.02 U
2-Chlorophenol	95-57-8	mg/kg	0.2	SL-3			< 0.02 U		< 0.0199 U		< 0.0199 U		< 0.02 U	< 0.02 U
2-Methylphenol	95-48-7	mg/kg	0.069	SL-8			< 0.02 U	-	< 0.0199 U		< 0.0199 U		< 0.02 U	< 0.02 U
2-Nitroaniline 2-Nitrophenol	88-74-4 88-75-5	mg/kg mg/kg	800	SL-1			< 0.1 U < 0.02 U		< 0.0996 U < 0.0199 U		< 0.0997 U < 0.0199 U		< 0.0998 U < 0.02 U	< 0.1 U < 0.02 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3.43E-05	SL-3			< 0.02 U		< 0.0199 U	_	< 0.0199 U		< 0.02 U	< 0.02 U
3-Nitroaniline	99-09-2	mg/kg	0.102.00	02.0			< 0.1 U	-	< 0.0996 U		< 0.0997 U		< 0.0998 U	< 0.1 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.134	SL-3			< 0.2 UJ	-	< 0.199 U		< 0.199 U		< 0.2 U	< 0.2 U
4-Bromophenyl phenyl ether	101-55-3	mg/kg					< 0.02 U	-	< 0.0199 U	-	< 0.0199 U		< 0.02 U	< 0.02 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.498	SL-3			< 0.1 U		< 0.0996 U		< 0.0997 U		< 0.0998 U	< 0.1 U
4-Chloroaniline	106-47-8	mg/kg	5	SL-1			< 0.1 U	-	< 0.0996 U		< 0.0997 U		< 0.0998 U	< 0.1 U
4-Chlorophenyl phenyl ether	7005-72-3 106-44-5	mg/kg mg/ka	0.67	SL-8			< 0.02 U < 0.02 U		< 0.0199 U < 0.0199 U		< 0.0199 UJ < 0.0199 UJ		< 0.02 UJ < 0.02 UJ	< 0.02 UJ < 0.02 UJ
4-Methylphenol 4-Nitroaniline	100-44-5	mg/kg	50	SL-6 SL-1			0.02 U		< 0.0199 U		< 0.0199 UJ		< 0.02 UJ	< 0.02 03 < 0.1 U
4-Nitrophenol	100-01-0	mg/kg	7	SL-9			< 0.1 U		< 0.0996 U		< 0.0997 UJ		< 0.0998 UJ	< 0.1 UJ
Benzoic acid	65-85-0	mg/kg	0.65	SL-8			0.0896 J	-	< 0.199 UJ	_	< 0.199 U		< 0.2 U	< 0.2 U
Benzyl alcohol	100-51-6	mg/kg	0.057	SL-8			< 0.02 U	-	0.0149 J	-	< 0.0199 UJ		< 0.02 UJ	< 0.02 UJ
Benzyl butyl phthalate	85-68-7	mg/kg	0.00361	SL-3			< 0.02 UJ	-	0.122		< 0.0199 U		< 0.02 U	< 0.02 U
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	5.09	SL-3			< 0.02 U	-	< 0.0199 U		< 0.0199 U		< 0.02 U	< 0.02 U
Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether	111-91-1 111-44-4	mg/kg mg/kg	0.000331	SL-3			< 0.02 U < 0.02 U		< 0.0199 U < 0.0199 U		< 0.0199 U < 0.0199 U		< 0.02 U < 0.02 U	< 0.02 U < 0.02 U
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.102	SL-3			< 0.5 UJ		0.981		0.0466 J		< 0.0499 U	< 0.02 U
Carbazole	86-74-8	mg/kg	0.102	OL-O			0.0309 J	_	0.0682	_	< 0.0199 U		< 0.02 U	< 0.02 U
Dibenzofuran	132-64-9	mg/kg	0.54	SL-8			0.0199	-	< 0.0248 U		< 0.005 U		< 0.005 U	< 0.00499 U
Diethyl phthalate	84-66-2	mg/kg	0.2	SL-8			< 0.02 U		< 0.0199 U		< 0.0199 U		< 0.02 U	< 0.02 U
Dimethyl phthalate	131-11-3	mg/kg	0.071	SL-8			< 0.02 UJ	-	0.197		< 0.0199 U		< 0.02 U	< 0.02 U
Di-n-butyl phthalate	84-74-2 117-84-0	mg/kg	0.283 6.2	SL-3 SL-8			0.113 J	-	0.268 0.0279	-	< 0.0199 U < 0.0199 U		< 0.02 U < 0.02 U	< 0.02 U < 0.02 U
Di-n-octyl phthalate Hexachlorobenzene	118-74-1	mg/kg mg/ka	8.02F-06	SL-6 SL-3	-		< 0.20 < 0.00998 U		< 0.0279		< 0.0199 U		< 0.02 U	< 0.02 U
Hexachlorobutadiene	87-68-3	mg/kg	0.000212	SL-3			< 0.00524 UJ		< 0.00665 U		< 0.00499 UJ		< 0.0005 U	< 0.0005 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.032	SL-3			< 0.1 UJ	-	< 0.0996 UJ		< 0.0997 UJ		< 0.0998 UJ	< 0.1 UJ
Hexachloroethane	67-72-1	mg/kg	0.000161	SL-3			< 0.02 U		< 0.0199 U		< 0.0199 U		< 0.02 U	< 0.02 U
Isophorone	78-59-1	mg/kg	0.583	SL-3			< 0.02 U	-	< 0.0199 U		< 0.0199 UJ		< 0.02 UJ	< 0.02 UJ
Nitrobenzene	98-95-3	mg/kg	0.638	SL-3			< 0.02 U	-	< 0.0199 U		< 0.0199 U		< 0.02 U	< 0.02 U
N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	621-64-7 86-30-6	mg/kg mg/kg	0.000551 0.028	SL-3 SL-8			< 0.02 U 0.0506 J	-	< 0.0199 U < 0.0199 U		< 0.0199 U < 0.0199 U		< 0.02 U < 0.02 U	< 0.02 U < 0.02 U
Pentachlorophenol	87-86-5	mg/kg	3.17E-05	SL-3			0.429 J		< 0.0199 UJ		< 0.0199 UJ		< 0.02 U	< 0.1 UJ
Phenol	108-95-2	mg/kg	0.42	SL-8			0.0149 J	-	0.0097 J	_	< 0.0199 U		< 0.02 U	< 0.02 U
Pesticides and Herbicides														
2,4'-DDD	53-19-0	mg/kg					< 5.99 U				-		< 0.001 U	< 0.001 U
2,4'-DDE	3424-82-6	mg/kg	ļ				< 39.9 U			-	-		< 0.001 U	< 0.001 U
2,4'-DDT	789-02-6	mg/kg	7.075.00	01.0			< 20 U						< 0.001 U	< 0.001 U
4,4'-DDD 4,4'-DDE	72-54-8 72-55-9	mg/kg	7.27E-06 1.52E-06	SL-3 SL-3			< 0.02 U < 39.9 U	-					< 0.001 U < 0.001 U	< 0.001 U < 0.001 U
4,4'-DDE 4,4'-DDT	72-55-9 50-29-3	mg/kg mg/kg	1.52E-06 1.63E-05	SL-3 SL-3			< 39.9 U						< 0.001 U < 0.003 U	< 0.001 U
Aldrin	309-00-2	mg/kg	4.01E-08	SL-3			< 7.99 UJ	-					< 0.005 U	< 0.001 U
Alpha-BHC	319-84-6	mg/kg	1.88E-06	SL-3			< 0.00998 U						< 0.0005 U	< 0.0005 U
Beta-BHC	319-85-7	mg/kg	6.55E-05	SL-3			< 0.00998 U			-	-	-	< 0.0005 U	< 0.0005 U
cis-Chlordane	5103-71-9	mg/kg	0.0001	SL-8			< 0.00998 U			-			< 0.0005 U	< 0.0005 U
cis-Nonachlor	5103-73-1	mg/kg		01.0			< 20 U	-		-	-		< 0.001 U	< 0.001 U
Delta-BHC	319-86-8 60-57-1	mg/kg	6 6.17E-07	SL-9			< 0.00998 U < 39.9 UJ	-			-		< 0.0005 U < 0.001 U	< 0.0005 U < 0.001 U
Dieldrin Endosulfan I	60-57-1 959-98-8	mg/kg mg/kg	6.1/E-0/ 0.00121	SL-3 SL-3			< 39.9 UJ < 0.00998 U						< 0.001 U < 0.0005 U	< 0.001 U < 0.0005 U
Endosulfan II	33213-65-9	mg/kg	0.00121	SL-3			< 3.99 U						< 0.0005 U	< 0.0005 U
Endosulfan Sulfate	1031-07-8	mg/kg	2.01	SL-3			< 2.99 U			-		-	< 0.001 U	< 0.001 U
Endrin	72-20-8	mg/kg	0.00044	SL-3			< 0.02 U						< 0.001 U	< 0.001 U
Endrin Aldehyde	7421-93-4	mg/kg	0.00243	SL-3			< 2.99 U	-		-	-		< 0.002 U	< 0.001 U

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location	SB-30	SB-30	SB-31	SB-31	SB-32	SB-32	SB-33	SB-33	SB-34	SB-34	SB-34
				Date	03/01/2021	03/01/2021	03/01/2021	03/01/2021	03/08/2021	03/08/2021	03/03/2021	03/03/2021	03/01/2021	03/23/2021	03/01/2021
				Sample Depth	SB-30-0-1 0 - 1 ft	SB-30A-3-5 3 - 5 ft	SB-31-0-1 0 - 1 ft	SB-31A-3-5 3 - 5 ft	SB-32-0-1 0 - 1 ft	SB-32-4-5 4 - 5 ft	SB-33-0-1 0 - 1 ft	SB-33-3-5 3 - 5 ft	SB-34-0-1 0 - 1 ft	SB-34R-0-1 0 - 1 ft	SB-34-3-4 3 - 4 ft
			SPM RI VADOSE-	Depin	0-1π	3-5π	0-1π	3-511	0-1π	4 - 5 II	0-1π	3-5H	0-1 ft	0-1π	3-4 II
			SOILS_SLS	Screening Level											
Analyte	CAS_RN	Unit	2022.02	Source											
Total PAHs (ND=0)	T-PAH	mg/kg	0.00004	01.0	0.106 J	0.816 J	0.0340 J	0.0720 J	0.199 J	0.00443 J	0.306 J	0.0926 J	0.877		0.0145 J
Total cPAHs TEQ (ND = 0) Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-0U T-cPAH-1/2U	mg/kg mg/kg	0.00031 0.00031	SL-3 SL-3	0.00732 J 0.00732 J	0.107 0.107	0.00328 J 0.00328 J	0.00857 J 0.00857 J	0.0193 J 0.0193 J	< 0.003775 U	0.0301 J 0.0301 J	0.00804 J 0.00804 J	0.0894 0.0894	-	0.000956 J 0.00182 J
Total cPAHs TEQ (ND multiplier Unknown)	T-cPAH-UnkU	mg/kg	0.00031	SL-3								0.00004 3	0.0034		
Semivolatile Organic Compounds							•				•			•	
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.00133	SL-3					< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U	-		-
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.97	SL-3					< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U	-		
2,4-Dichlorophenol	120-83-2	mg/kg	0.0694 0.029	SL-3		-		-	< 0.0994 U < 0.0994 U	< 0.1 U	< 0.0997 U < 0.0997 U	< 0.0998 U < 0.0998 U	-		
2,4-Dimethylphenol 2,4-Dinitrophenol	105-67-9 51-28-5	mg/kg mg/kg	0.029	SL-8 SL-3			-		< 0.0994 U < 0.199 UJ	< 0.1 U	< 0.199 UJ	< 0.0998 U			
2,4-Dinitroplienoi	121-14-2	mg/kg	0.00279	SL-3					< 0.199 U	< 0.1 U	< 0.0997 U	< 0.0998 U			
2,6-Dinitrotoluene	606-20-2	mg/kg	0.667	SL-1					< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U		-	
2-Chloronaphthalene	91-58-7	mg/kg	5.36	SL-3					< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	-		-
2-Chlorophenol	95-57-8	mg/kg	0.2	SL-3					< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U		-	
2-Methylphenol	95-48-7 88-74-4	mg/kg	0.069 800	SL-8 SL-1		 			< 0.0199 U < 0.0994 U	< 0.02 U < 0.1 U	< 0.0199 U < 0.0997 U	< 0.02 U < 0.0998 U	-		
2-Nitroaniline 2-Nitrophenol	88-74-4 88-75-5	mg/kg mg/kg	000	SL-1					< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U	-		-
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3.43E-05	SL-3					< 0.0199 U	< 0.1 U	< 0.0193 U	< 0.0998 U			
3-Nitroaniline	99-09-2	mg/kg							< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U		<u> </u>	
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.134	SL-3					< 0.199 U	< 0.2 U	< 0.199 U	< 0.2 U		-	
4-Bromophenyl phenyl ether	101-55-3	mg/kg							< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U		-	
4-Chloro-3-methylphenol	59-50-7 106-47-8	mg/kg	0.498	SL-3 SL-1					< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U < 0.0998 U	-		
4-Chloroaniline 4-Chlorophenyl phenyl ether	7005-72-3	mg/kg mg/kg	5	SL-1					< 0.0994 U < 0.0199 U	< 0.1 U < 0.02 U	< 0.0997 U < 0.0199 U	< 0.0998 U		-	
4-Methylphenol	106-44-5	mg/kg	0.67	SL-8					< 0.0199 U.I	< 0.02 UJ	< 0.0199 U	< 0.02 U			
4-Nitroaniline	100-01-6	mg/kg	50	SL-1					< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U	_		
4-Nitrophenol	100-02-7	mg/kg	7	SL-9		-			< 0.0994 U	< 0.1 U	< 0.0997 U	< 0.0998 U	-		
Benzoic acid	65-85-0	mg/kg	0.65	SL-8					0.0623 J	< 0.2 UJ	< 0.199 U	< 0.2 U		-	
Benzyl alcohol	100-51-6	mg/kg	0.057	SL-8					< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U		-	
Benzyl butyl phthalate Bis(2-chloro-1-methylethyl) ether	85-68-7 108-60-1	mg/kg mg/kg	0.00361 5.09	SL-3 SL-3				-	0.0412 0.0234	< 0.02 U < 0.02 U	0.0096 J < 0.0199 U	< 0.02 U < 0.02 U			
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	5.09	SL-3					< 0.0234 < 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	-	-	
Bis(2-chloroethyl) ether	111-44-4	mg/kg	0.000331	SL-3		-			< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U			
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.102	SL-3		-			0.255 J	< 0.05 U	0.067	< 0.0499 U		-	
Carbazole	86-74-8	mg/kg							0.0126 J	< 0.02 U	< 0.0199 U	< 0.02 U			
Dibenzofuran	132-64-9	mg/kg	0.54	SL-8	< 0.00498 U	0.00516	< 0.00499 U	< 0.005 U	0.0023 J	< 0.005 U	< 0.015 U	< 0.00499 U	0.00531	-	0.00408 J
Diethyl phthalate Dimethyl phthalate	84-66-2 131-11-3	mg/kg mg/kg	0.2 0.071	SL-8 SL-8			-		< 0.0199 U 0.254 J	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	0.0471 < 0.02 U			
Di-n-butyl phthalate	84-74-2	mg/kg	0.283	SL-3					0.0448	< 0.02 U	0.0224	< 0.02 U			
Di-n-octyl phthalate	117-84-0	mg/kg	6.2	SL-8		-			< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	-		
Hexachlorobenzene	118-74-1	mg/kg	8.02E-06	SL-3					< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	-		
Hexachlorobutadiene	87-68-3	mg/kg	0.000212	SL-3	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U	< 0.0068 UJ	< 0.005 U	
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.032 0.000161	SL-3					< 0.0994 UJ	< 0.1 UJ	< 0.0997 UJ	< 0.0998 UJ		-	
Hexachloroethane Isophorone	67-72-1 78-59-1	mg/kg mg/kg	0.000161	SL-3 SL-3					< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U	-		
Nitrobenzene	98-95-3	mg/kg	0.638	SL-3 SL-3					< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	-	-	
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.000551	SL-3		T			< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U			
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.028	SL-8		-			< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	-	_	-
Pentachlorophenol	87-86-5	mg/kg	3.17E-05	SL-3					< 0.0994 UJ	< 0.1 UJ	< 0.0997 U	< 0.0998 U	-	-	
Phenol Particides	108-95-2	mg/kg	0.42	SL-8					< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U			<u> </u>
Pesticides and Herbicides 2.4'-DDD	53-19-0	mg/kg			_					_			_		T _
2.4'-DDE	3424-82-6	mg/kg mg/ka	1											-	
2,4'-DDT	789-02-6	mg/kg													
4,4'-DDD	72-54-8	mg/kg	7.27E-06	SL-3						-	-			-	
4,4'-DDE	72-55-9	mg/kg	1.52E-06	SL-3		-				-	-		-	-	-
4,4'-DDT Aldrin	50-29-3 309-00-2	mg/kg	1.63E-05 4.01E-08	SL-3 SL-3						-				-	-
Aldrin Alpha-BHC	309-00-2 319-84-6	mg/kg mg/ka	4.01E-08 1.88E-06	SL-3 SL-3											
Beta-BHC	319-85-7	mg/kg	6.55E-05	SL-3			-				-		-	-	T =
cis-Chlordane	5103-71-9	mg/kg	0.0001	SL-8		T							-		
cis-Nonachlor	5103-73-1	mg/kg							-	_	_		_	_	
Delta-BHC	319-86-8	mg/kg	6	SL-9						-		-		-	
Dieldrin	60-57-1	mg/kg	6.17E-07	SL-3		 -				-	-			-	-
Endosulfan I Endosulfan II	959-98-8 33213-65-9	mg/kg mg/kg	0.00121 0.00121	SL-3 SL-3											-
						+					-		- -		
	1031-07-8	ma/ka	2.01	SL-3											
Endosulfan Sulfate Endrin	1031-07-8 72-20-8	mg/kg mg/kg	2.01 0.00044	SL-3 SL-3							-				

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	SB-34 03/23/2021 SB-34R-3-4	SS-01 02/09/2016 SPM-SS-01-02092016	SS-02 02/09/2016 SPM-SS-02-02092016				SS-06 02/10/2016 SPM-SS-06-02102016
			SPM RI VADOSE-	Depth	3 - 4 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft
			SOILS_SLS	Screening Level							
Analyte Total PAHs (ND=0)	CAS_RN T-PAH	Unit mg/kg	2022.02	Source				-			
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg	0.00031	SL-3	-	-		_			-
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg	0.00031	SL-3				_			_
Total cPAHs TEQ (ND multiplier Unknown)	T-cPAH-UnkU	mg/kg	0.00031	SL-3				-			-
Semivolatile Organic Compounds				01.0				ı		1	ı
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	95-95-4 88-06-2	mg/kg mg/kg	0.00133 6.97	SL-3 SL-3		-		-			
2,4-Dichlorophenol	120-83-2	mg/kg	0.0694	SL-3							
2,4-Dimethylphenol	105-67-9	mg/kg	0.029	SL-8		_					
2,4-Dinitrophenol	51-28-5	mg/kg	0.4	SL-3		-	-	-			
2,4-Dinitrotoluene	121-14-2	mg/kg	0.00279	SL-3		-	-	-			-
2,6-Dinitrotoluene	606-20-2	mg/kg	0.667	SL-1				-			
2-Chloronaphthalene	91-58-7	mg/kg	5.36	SL-3							-
2-Chlorophenol 2-Methylphenol	95-57-8 95-48-7	mg/kg mg/kg	0.2 0.069	SL-3 SL-8							
2-Nitroaniline	88-74-4	mg/kg	800	SL-0		-					-
2-Nitrophenol	88-75-5	mg/kg						_			_
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3.43E-05	SL-3							-
3-Nitroaniline	99-09-2	mg/kg				-	-				
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.134	SL-3				-			
4-Bromophenyl phenyl ether	101-55-3 59-50-7	mg/kg	0.498	SL-3				-			
4-Chloro-3-methylphenol 4-Chloroaniline	59-50-7 106-47-8	mg/kg mg/kg	0.498 5	SL-3 SL-1				-			
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	Ů	OL-1							
4-Methylphenol	106-44-5	mg/kg	0.67	SL-8				-			
4-Nitroaniline	100-01-6	mg/kg	50	SL-1				-			
4-Nitrophenol	100-02-7	mg/kg	7	SL-9		-	-	-			-
Benzoic acid	65-85-0	mg/kg	0.65	SL-8				-			
Benzyl alcohol	100-51-6	mg/kg	0.057 0.00361	SL-8				-			
Benzyl butyl phthalate Bis(2-chloro-1-methylethyl) ether	85-68-7 108-60-1	mg/kg mg/kg	5.09	SL-3 SL-3							
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	3.03	3L-3				-			
Bis(2-chloroethyl) ether	111-44-4	mg/kg	0.000331	SL-3				-			
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.102	SL-3		=		=		-	
Carbazole	86-74-8	mg/kg				-	-	-			-
Dibenzofuran	132-64-9	mg/kg	0.54	SL-8				-			-
Diethyl phthalate Dimethyl phthalate	84-66-2 131-11-3	mg/kg	0.2 0.071	SL-8 SL-8							
Di-n-butyl phthalate	84-74-2	mg/kg mg/kg	0.283	SL-3				_		-	
Di-n-octyl phthalate	117-84-0	mg/kg	6.2	SL-8		_					
Hexachlorobenzene	118-74-1	mg/kg	8.02E-06	SL-3				_			
Hexachlorobutadiene	87-68-3	mg/kg	0.000212	SL-3	< 0.00522 U			-			
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.032	SL-3	-						-
Hexachloroethane	67-72-1	mg/kg	0.000161	SL-3				-			
Isophorone Nitrohanzana	78-59-1 98-95-3	mg/kg	0.583 0.638	SL-3 SL-3		<u>-</u>	-	<u>-</u>			
Nitrobenzene N-Nitroso-di-n-propylamine	98-95-3 621-64-7	mg/kg mg/kg	0.000551	SL-3 SL-3							-
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.00331	SL-8				_			-
Pentachlorophenol	87-86-5	mg/kg	3.17E-05	SL-3		-	-	-			
Phenol	108-95-2	mg/kg	0.42	SL-8							
Pesticides and Herbicides						1	1	1	1	1	
2,4'-DDD 2,4'-DDE	53-19-0 3424-82-6	mg/kg	 			-	-	-			-
2,4'-DDE 2,4'-DDT	3424-82-6 789-02-6	mg/kg mg/kg	1					-			
4.4'-DDD	72-54-8	mg/kg mg/kg	7.27E-06	SL-3		-					-
4,4'-DDE	72-55-9	mg/kg	1.52E-06	SL-3							-
4,4'-DDT	50-29-3	mg/kg	1.63E-05	SL-3		-	_	_			
Aldrin	309-00-2	mg/kg	4.01E-08	SL-3							-
Alpha-BHC	319-84-6	mg/kg	1.88E-06	SL-3		-		-			-
Beta-BHC cis-Chlordane	319-85-7 5103-71-9	mg/kg	6.55E-05	SL-3				-			-
cis-Chlordane cis-Nonachlor	5103-71-9 5103-73-1	mg/kg	0.0001	SL-8							-
Delta-BHC	319-86-8	mg/kg mg/ka	6	SL-9				-			-
Dieldrin	60-57-1	mg/kg	6.17E-07	SL-3		_		_			-
Endosulfan I	959-98-8	mg/kg	0.00121	SL-3							
Endosulfan II	33213-65-9	mg/kg	0.00121	SL-3		=		=		-	_
Endosulfan Sulfate	1031-07-8	mg/kg	2.01	SL-3				-			
Endrin	72-20-8	mg/kg	0.00044	SL-3							
Endrin Aldehyde	7421-93-4	mg/kg	0.00243	SL-3		-	-	-			I -

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	SS-07 02/09/2016 SPM-SS-07-02092016	SS-08 02/09/2016 SPM-SS-08-02092016	SS-09 02/10/2016 SPM-SS-09-02102016	SS-10 02/10/2016 SPM-SS-10-02102016	SS-11 02/10/2016 SPM-SS-11-02102016	SS-12 02/09/2016 SPM-SS-12-02092016
				Depth	0 - 1.6 ft					
			SPM_RI_VADOSE- SOILS SLS	Screening Level						
Analyte	CAS RN	Unit	2022.02	Source						
Total PAHs (ND=0)	T-PAH	mg/kg						_	-	-
Total cPAHs TEQ (ND = 0) Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-0U T-cPAH-1/2U	mg/kg	0.00031 0.00031	SL-3 SL-3						
Total cPAHs TEQ (ND = 1/2 RDL) Total cPAHs TEQ (ND multiplier Unknown)	T-cPAH-1/2U T-cPAH-UnkU	mg/kg mg/kg	0.00031	SL-3 SL-3				-	-	-
Semivolatile Organic Compounds	1 01741 01110	mgrag	0.00001	02.0						•
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.00133	SL-3	-	-		-	-	-
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.97 0.0694	SL-3 SL-3		-		-		-
2,4-Dichlorophenol 2,4-Dimethylphenol	120-83-2 105-67-9	mg/kg mg/kg	0.0694	SL-3				-		
2,4-Dinitrophenol	51-28-5	mg/kg	0.4	SL-3		-		-		_
2,4-Dinitrotoluene	121-14-2	mg/kg	0.00279	SL-3		-		-	-	-
2,6-Dinitrotoluene	606-20-2	mg/kg	0.667	SL-1					-	-
2-Chloronaphthalene 2-Chlorophenol	91-58-7 95-57-8	mg/kg mg/kg	5.36 0.2	SL-3 SL-3						-
2-Methylphenol	95-48-7	mg/kg	0.069	SL-8		-		-	-	-
2-Nitroaniline	88-74-4	mg/kg	800	SL-1		-				-
2-Nitrophenol	88-75-5	mg/kg	0.465.05	0/ 0		-			-	-
3,3'-Dichlorobenzidine 3-Nitroaniline	91-94-1 99-09-2	mg/kg mg/kg	3.43E-05	SL-3					-	-
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg mg/kg	0.134	SL-3				-		
4-Bromophenyl phenyl ether	101-55-3	mg/kg						-	-	
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.498	SL-3		-		-	-	-
4-Chloroaniline	106-47-8	mg/kg	5	SL-1						-
4-Chlorophenyl phenyl ether 4-Methylphenol	7005-72-3 106-44-5	mg/kg mg/kg	0.67	SL-8	<u></u>	-		<u>-</u>		-
4-Nitroaniline	100-44-5	mg/kg	50	SL-0				-		
4-Nitrophenol	100-02-7	mg/kg	7	SL-9	-	-				
Benzoic acid	65-85-0	mg/kg	0.65	SL-8	-	-		-	-	-
Benzyl alcohol	100-51-6	mg/kg	0.057	SL-8					-	-
Benzyl butyl phthalate Bis(2-chloro-1-methylethyl) ether	85-68-7 108-60-1	mg/kg mg/kg	0.00361 5.09	SL-3 SL-3						-
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	0.00	OL-O		-		-		_
Bis(2-chloroethyl) ether	111-44-4	mg/kg	0.000331	SL-3		-		-	-	-
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.102	SL-3					-	-
Carbazole Dibenzofuran	86-74-8 132-64-9	mg/kg mg/kg	0.54	SL-8		-		-	-	
Diethyl phthalate	84-66-2	mg/kg	0.2	SL-8						
Dimethyl phthalate	131-11-3	mg/kg	0.071	SL-8		-			-	-
Di-n-butyl phthalate	84-74-2	mg/kg	0.283	SL-3						-
Di-n-octyl phthalate Hexachlorobenzene	117-84-0 118-74-1	mg/kg mg/kg	6.2 8.02E-06	SL-8 SL-3						-
Hexachlorobutadiene	87-68-3	mg/kg	0.000212	SL-3				-		
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.032	SL-3		-				
Hexachloroethane	67-72-1	mg/kg	0.000161	SL-3		-		-	-	-
Isophorone	78-59-1 98-95-3	mg/kg	0.583	SL-3				-	-	-
Nitrobenzene N-Nitroso-di-n-propylamine	98-95-3 621-64-7	mg/kg mg/kg	0.638 0.000551	SL-3 SL-3						-
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.028	SL-8						
Pentachlorophenol	87-86-5	mg/kg	3.17E-05	SL-3		-	-	-	-	
Phenol Pesticides and Herbicides	108-95-2	mg/kg	0.42	SL-8		-			-	
2,4'-DDD	53-19-0	mg/kg		l				I -	_	1 -
2,4'-DDE	3424-82-6	mg/kg				-				
2,4'-DDT	789-02-6	mg/kg		_				_	-	-
4,4'-DDD	72-54-8	mg/kg	7.27E-06	SL-3						-
4,4'-DDE 4,4'-DDT	72-55-9 50-29-3	mg/kg mg/kg	1.52E-06 1.63E-05	SL-3 SL-3						-
Aldrin	309-00-2	mg/kg	4.01E-08	SL-3		-		-	-	-
Alpha-BHC	319-84-6	mg/kg	1.88E-06	SL-3						-
Beta-BHC	319-85-7	mg/kg	6.55E-05	SL-3		-			-	-
cis-Chlordane cis-Nonachlor	5103-71-9 5103-73-1	mg/kg	0.0001	SL-8		-			-	-
Delta-BHC	319-86-8	mg/kg mg/ka	6	SL-9						-
Dieldrin	60-57-1	mg/kg	6.17E-07	SL-3			<u></u>			<u> </u>
Endosulfan I	959-98-8	mg/kg	0.00121	SL-3		-				
Endosulfan II	33213-65-9 1031-07-8	mg/kg	0.00121 2.01	SL-3 SL-3						-
Endosulfan Sulfate		mg/kg	2.01 0.00044	SL-3 SL-3					-	-
Endrin	72-20-8	mg/kg								

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SS-13 02/10/2016 SPM-SS-13-02102016 0 - 1.6 ft	SS-14 02/10/2016 SPM-SS-14-02102016 0 - 1.6 ft	SS-15 02/09/2016 SPM-SS-15-02102016 0 - 1.6 ft	SS-16 02/09/2016 SPM-SS-16-02092016 0 - 1.6 ft	SS-17 02/10/2016 SPM-SS-17-02102016 0 - 1.6 ft	SS-18 02/10/2016 SPM-SS-18-02102016 0 - 1.6 ft
			SPM_RI_VADOSE- SOILS_SLS	Screening Level	υ - 1.6 π	υ-1.6π	υ - 1.6 π	0 - 1.6 ft	U - 1.6 ft	υ-1.6π
Analyte	CAS RN	Unit	2022.02	Source						
Total PAHs (ND=0)	T-PAH	mg/kg						-	-	-
Total cPAHs TEQ (ND = 0) Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-0U	mg/kg	0.00031 0.00031	SL-3 SL-3					-	
Total cPAHs TEQ (ND = 1/2 RDL) Total cPAHs TEQ (ND multiplier Unknown)	T-cPAH-1/2U T-cPAH-UnkU	mg/kg mg/kg	0.00031	SL-3 SL-3				-	-	
Semivolatile Organic Compounds	I-CFAII-UIIKU	HIQ/KQ	0.00031	SL-3						
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.00133	SL-3						-
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.97	SL-3					-	-
2,4-Dichlorophenol	120-83-2	mg/kg	0.0694	SL-3		-			-	-
2,4-Dimethylphenol	105-67-9	mg/kg	0.029	SL-8					-	-
2,4-Dinitrophenol	51-28-5	mg/kg	0.4	SL-3					-	
2,4-Dinitrotoluene	121-14-2	mg/kg	0.00279	SL-3					-	-
2,6-Dinitrotoluene	606-20-2	mg/kg	0.667	SL-1					-	-
2-Chloronaphthalene	91-58-7 95-57-8	mg/kg	5.36 0.2	SL-3 SL-3						-
2-Chlorophenol 2-Methylphenol	95-57-6	mg/kg mg/kg	0.069	SL-8		-		-		_
2-Nitroaniline	88-74-4	mg/kg	800	SL-0					-	
2-Nitrophenol	88-75-5	mg/kg	000	OL-1				-		-
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3.43E-05	SL-3					-	-
3-Nitroaniline	99-09-2	mg/kg						-	_	-
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.134	SL-3				-	-	-
4-Bromophenyl phenyl ether	101-55-3	mg/kg			-	-		-	-	-
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.498	SL-3					-	
4-Chloroaniline	106-47-8	mg/kg	5	SL-1				-	-	-
4-Chlorophenyl phenyl ether	7005-72-3 106-44-5	mg/kg	0.07	01.0					-	-
4-Methylphenol 4-Nitroaniline	100-44-5	mg/kg mg/kg	0.67 50	SL-8 SL-1				-	-	-
4-Nitrophenol	100-01-0	mg/kg	7	SL-9				-		-
Benzoic acid	65-85-0	mg/kg	0.65	SL-8						
Benzyl alcohol	100-51-6	mg/kg	0.057	SL-8					-	_
Benzyl butyl phthalate	85-68-7	mg/kg	0.00361	SL-3						-
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	5.09	SL-3					-	_
Bis(2-chloroethoxy)methane	111-91-1	mg/kg								
Bis(2-chloroethyl) ether	111-44-4	mg/kg	0.000331	SL-3					-	-
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.102	SL-3				-	-	-
Carbazole	86-74-8 132-64-9	mg/kg	0.54	SL-8		-				
Dibenzofuran Diethyl phthalate	84-66-2	mg/kg mg/kg	0.54	SL-8					-	
Dimethyl phthalate	131-11-3	mg/kg	0.071	SL-8				-	-	
Di-n-butyl phthalate	84-74-2	mg/kg	0.283	SL-3						
Di-n-octyl phthalate	117-84-0	mg/kg	6.2	SL-8					-	-
Hexachlorobenzene	118-74-1	mg/kg	8.02E-06	SL-3					-	-
Hexachlorobutadiene	87-68-3	mg/kg	0.000212	SL-3						
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.032	SL-3					-	-
Hexachloroethane	67-72-1	mg/kg	0.000161	SL-3					-	
Isophorone	78-59-1 98-95-3	mg/kg	0.583 0.638	SL-3 SL-3						-
Nitrobenzene N-Nitroso-di-n-propylamine	98-95-3 621-64-7	mg/kg mg/kg	0.638	SL-3 SL-3		-		-	-	
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.00331	SL-8		-		_	-	-
Pentachlorophenol	87-86-5	mg/kg	3.17E-05	SL-3					-	
Phenol	108-95-2	mg/kg	0.42	SL-8					-	-
Pesticides and Herbicides										
2,4'-DDD	53-19-0	mg/kg							-	
2,4'-DDE	3424-82-6	mg/kg							-	
2,4'-DDT	789-02-6	mg/kg	7.075.00	CL 2		-		-	-	-
4,4'-DDD 4,4'-DDE	72-54-8 72-55-9	mg/kg	7.27E-06 1.52E-06	SL-3 SL-3					-	-
4,4'-DDE 4,4'-DDT	72-55-9 50-29-3	mg/kg mg/kg	1.52E-05 1.63E-05	SL-3 SL-3				-		-
Aldrin	309-00-2	mg/kg	4.01E-08	SL-3						
Alpha-BHC	319-84-6	mg/kg	1.88E-06	SL-3						
Beta-BHC	319-85-7	mg/kg	6.55E-05	SL-3					-	-
cis-Chlordane	5103-71-9	mg/kg	0.0001	SL-8					-	-
cis-Nonachlor	5103-73-1	mg/kg						-	-	-
Delta-BHC	319-86-8	mg/kg	6	SL-9	-	-		-	-	-
Dieldrin	60-57-1	mg/kg	6.17E-07	SL-3					-	-
Endosulfan I	959-98-8	mg/kg	0.00121	SL-3					-	-
Endosulfan II Endosulfan Sulfate	33213-65-9 1031-07-8	mg/kg mg/kg	0.00121 2.01	SL-3 SL-3		-		-		-
Endosultan Sulfate Endrin	72-20-8	mg/kg mg/kg	0.00044	SL-3 SL-3					-	-
Endrin Aldehyde	7421-93-4	mg/kg	0.00243	SL-3				-		
		g.ng	0.002.0	. 020		•	•			

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	SS-19 02/10/2016 SPM-SS-19-02102016 0 - 1.6 ft	SS-20 02/10/2016 SPM-SS-20-02102016 0 - 1.6 ft	SS-21 02/08/2016 SPM-SS-21-02082016 0 - 1.6 ft	SS-22 02/08/2016 SPM-SS-22-02082016 0 - 1.6 ft	SS-23 02/08/2016 SPM-SS-23-02082016 0 - 1.6 ft	SS-24 02/10/2016 SPM-SS-24-02102016 0 - 1.6 ft
			SPM_RI_VADOSE-	Depth	0 - 1.6 π	0 - 1.6 π	0 - 1.6 π	υ - 1.6 π	υ - 1.6 π	0 - 1.6 π
A I. d.	040 PN	11.24	SOILS_SLS	Screening Level						
Analyte Total PAHs (ND=0)	CAS RN T-PAH	Unit mg/kg	2022.02	Source						
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg	0.00031	SL-3						
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg	0.00031	SL-3				-	-	-
Total cPAHs TEQ (ND multiplier Unknown)	T-cPAH-UnkU	mg/kg	0.00031	SL-3		-		-		-
Semivolatile Organic Compounds										
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.00133	SL-3					-	
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.97 0.0694	SL-3 SL-3						
2,4-Dichlorophenol 2,4-Dimethylphenol	120-83-2 105-67-9	mg/kg mg/kg	0.0694	SL-3 SL-8					-	-
2,4-Dinitrophenol	51-28-5	mg/kg	0.029	SL-3		-		-		
2,4-Dinitrotoluene	121-14-2	mg/kg	0.00279	SL-3						_
2,6-Dinitrotoluene	606-20-2	mg/kg	0.667	SL-1						
2-Chloronaphthalene	91-58-7	mg/kg	5.36	SL-3				_	-	-
2-Chlorophenol	95-57-8	mg/kg	0.2	SL-3				-		-
2-Methylphenol	95-48-7	mg/kg	0.069	SL-8		-		-		-
2-Nitroaniline	88-74-4	mg/kg	800	SL-1					-	-
2-Nitrophenol	88-75-5	mg/kg	2.425.05	01.0					-	-
3,3'-Dichlorobenzidine	91-94-1 99-09-2	mg/kg	3.43E-05	SL-3						-
3-Nitroaniline	534-52-1	mg/kg	0.134	SL-3				-		-
4,6-Dinitro-2-methylphenol 4-Bromophenyl phenyl ether	101-55-3	mg/kg mg/kg	0.134	OL-O					-	
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.498	SL-3						
4-Chloroaniline	106-47-8	mg/kg	5	SL-1						_
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	-							-
4-Methylphenol	106-44-5	mg/kg	0.67	SL-8		_		_		_
4-Nitroaniline	100-01-6	mg/kg	50	SL-1				-		-
4-Nitrophenol	100-02-7	mg/kg	7	SL-9						
Benzoic acid	65-85-0	mg/kg	0.65	SL-8					-	-
Benzyl alcohol	100-51-6	mg/kg	0.057	SL-8						
Benzyl butyl phthalate	85-68-7	mg/kg	0.00361	SL-3		-		-		
Bis(2-chloro-1-methylethyl) ether Bis(2-chloroethoxy)methane	108-60-1 111-91-1	mg/kg mg/kg	5.09	SL-3					-	-
Bis(2-chloroethyl) ether	111-44-4	mg/kg	0.000331	SL-3						
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.102	SL-3						_
Carbazole	86-74-8	mg/kg						-	-	-
Dibenzofuran	132-64-9	mg/kg	0.54	SL-8						-
Diethyl phthalate	84-66-2	mg/kg	0.2	SL-8				-	-	-
Dimethyl phthalate	131-11-3	mg/kg	0.071	SL-8						
Di-n-butyl phthalate	84-74-2	mg/kg	0.283	SL-3					-	
Di-n-octyl phthalate	117-84-0 118-74-1	mg/kg	6.2	SL-8 SL-3					-	-
Hexachlorobenzene Hexachlorobutadiene	87-68-3	mg/kg mg/kg	8.02E-06 0.000212	SL-3				-	-	-
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.000212	SL-3				-		
Hexachloroethane	67-72-1	mg/kg	0.000161	SL-3						
Isophorone	78-59-1	mg/kg	0.583	SL-3				-	-	-
Nitrobenzene	98-95-3	mg/kg	0.638	SL-3					-	-
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.000551	SL-3					-	-
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.028	SL-8		-				-
Pentachlorophenol	87-86-5	mg/kg	3.17E-05	SL-3						-
Phenol Particides and Harbisides	108-95-2	mg/kg	0.42	SL-8		-		-		-
Pesticides and Herbicides 2.4'-DDD	53-19-0	malka	ı					I	I	
2,4'-DDE	3424-82-6	mg/kg mg/kg					-		-	
2,4'-DDT	789-02-6	mg/kg				-		-	-	-
4,4'-DDD	72-54-8	mg/kg	7.27E-06	SL-3						
4,4'-DDE	72-55-9	mg/kg	1.52E-06	SL-3						
4,4'-DDT	50-29-3	mg/kg	1.63E-05	SL-3		_				
Aldrin	309-00-2	mg/kg	4.01E-08	SL-3				-	-	-
Alpha-BHC	319-84-6	mg/kg	1.88E-06	SL-3		-		-		
Beta-BHC	319-85-7	mg/kg	6.55E-05	SL-3					-	-
cis-Chlordane	5103-71-9	mg/kg	0.0001	SL-8					-	-
cis-Nonachlor	5103-73-1	mg/kg		01.0		-		_		-
Delta-BHC Dieldrin	319-86-8 60-57-1	mg/kg mg/kg	6 6.17E-07	SL-9 SL-3						-
Endosulfan I	959-98-8	mg/kg	0.00121	SL-3				-	-	-
Endosulfan II	33213-65-9	mg/kg	0.00121	SL-3		-		-	-	-
Endosulfan Sulfate	1031-07-8	mg/kg	2.01	SL-3						_
Endrin	72-20-8	mg/kg	0.00044	SL-3						
Endrin Aldehyde	7421-93-4	mg/kg	0.00243	SL-3		-		-		-

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SS-25 02/08/2016 SPM-SS-25-02082016 0 - 1.6 ft	SS-26 02/08/2016 SPM-SS-26-02082016 0 - 1.6 ft	SS-27 02/08/2016 SPM-SS-27-02082016 0 - 1.6 ft	SS-28 02/11/2016 SPM-SS-28-02112016 0 - 1.6 ft	SS-29 02/11/2016 SPM-SS-29-02112016 0 - 1.6 ft	SS-30 02/11/2016 SPM-SS-30-02112016 0 - 1.6 ft	SS-31 11/17/2017 SS-31-0-1.5 0 - 1.5 ft
			SPM_RI_VADOSE- SOILS SLS	Screening Level	0 - 1.6 11	0 - 1.611	0 - 1.6 10	0-1.610	0 - 1.6 10	0 - 1.610	0 - 1.5 10
Analyte	CAS RN	Unit	2022.02	Source							
Total PAHs (ND=0)	T-PAH	mg/kg						-	-	-	
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg	0.00031	SL-3					-	-	
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg	0.00031	SL-3							
Total cPAHs TEQ (ND multiplier Unknown)	T-cPAH-UnkU	mg/kg	0.00031	SL-3						-	
Semivolatile Organic Compounds 2,4,5-Trichlorophenol	95-95-4	mg/kg	0.00133	SL-3		T T				I	
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.97	SL-3							
2,4-Dichlorophenol	120-83-2	mg/kg	0.0694	SL-3				-	-	-	
2,4-Dimethylphenol	105-67-9	mg/kg	0.029	SL-8		_				_	
2,4-Dinitrophenol	51-28-5	mg/kg	0.4	SL-3							
2,4-Dinitrotoluene	121-14-2	mg/kg	0.00279	SL-3					-	-	
2,6-Dinitrotoluene	606-20-2 91-58-7	mg/kg	0.667	SL-1		-		-			-
2-Chloronaphthalene 2-Chlorophenol	95-57-8	mg/kg mg/kg	5.36 0.2	SL-3 SL-3						-	
2-Methylphenol	95-48-7	mg/kg	0.069	SL-8						-	
2-Nitroaniline	88-74-4	mg/kg	800	SL-1					-	-	
2-Nitrophenol	88-75-5	mg/kg			_			_			
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3.43E-05	SL-3	-	-		-			
3-Nitroaniline	99-09-2	mg/kg	0.101	01.0					-	-	
4,6-Dinitro-2-methylphenol	534-52-1 101-55-3	mg/kg	0.134	SL-3							
4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol	101-55-3 59-50-7	mg/kg mg/kg	0.498	SL-3					-		
4-Chloroaniline	106-47-8	mg/kg	5	SL-3							
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	Ŭ	OL-1	-						
4-Methylphenol	106-44-5	mg/kg	0.67	SL-8					-	-	
4-Nitroaniline	100-01-6	mg/kg	50	SL-1				-		-	_
4-Nitrophenol	100-02-7	mg/kg	7	SL-9							
Benzoic acid	65-85-0	mg/kg	0.65	SL-8				-	-	-	
Benzyl alcohol	100-51-6	mg/kg	0.057 0.00361	SL-8					-	-	
Benzyl butyl phthalate Bis(2-chloro-1-methylethyl) ether	85-68-7 108-60-1	mg/kg mg/kg	5.09	SL-3 SL-3					-	-	
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	3.08	3L-3				-	-	-	
Bis(2-chloroethyl) ether	111-44-4	mg/kg	0.000331	SL-3						-	
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.102	SL-3		_				-	-
Carbazole	86-74-8	mg/kg						-			
Dibenzofuran	132-64-9	mg/kg	0.54	SL-8						-	
Diethyl phthalate	84-66-2 131-11-3	mg/kg	0.2 0.071	SL-8 SL-8					-	-	
Dimethyl phthalate Di-n-butyl phthalate	84-74-2	mg/kg mg/kg	0.283	SL-8						-	
Di-n-octyl phthalate	117-84-0	mg/kg	6.2	SL-8							
Hexachlorobenzene	118-74-1	mg/kg	8.02E-06	SL-3				-	-	-	
Hexachlorobutadiene	87-68-3	mg/kg	0.000212	SL-3					-	-	
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.032	SL-3						-	
Hexachloroethane	67-72-1	mg/kg	0.000161	SL-3				-	-	-	
Isophorone Nitrobonzone	78-59-1	mg/kg	0.583	SL-3				-	-	-	
Nitrobenzene N-Nitroso-di-n-propylamine	98-95-3 621-64-7	mg/kg mg/kg	0.638 0.000551	SL-3 SL-3	 						
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.028	SL-8				_	-	-	
Pentachlorophenol	87-86-5	mg/kg	3.17E-05	SL-3				-	_	_	
Phenol	108-95-2	mg/kg	0.42	SL-8				-	-	-	
Pesticides and Herbicides											
2,4'-DDD	53-19-0	mg/kg	1					-	-	-	
2,4'-DDE	3424-82-6	mg/kg	 						-	-	
2,4'-DDT 4,4'-DDD	789-02-6 72-54-8	mg/kg mg/kg	7.27E-06	SL-3							
4,4'-DDE	72-55-9	mg/kg	1.52E-06	SL-3					-	-	T
4,4'-DDT	50-29-3	mg/kg	1.63E-05	SL-3				-	-	-	
Aldrin	309-00-2	mg/kg	4.01E-08	SL-3	-			_			
Alpha-BHC	319-84-6	mg/kg	1.88E-06	SL-3					-	-	
Beta-BHC	319-85-7	mg/kg	6.55E-05	SL-3						-	
cis-Chlordane	5103-71-9	mg/kg	0.0001	SL-8				-			-
cis-Nonachlor Delta-BHC	5103-73-1 319-86-8	mg/kg	6	SL-9				-		-	
Dieldrin	60-57-1	mg/kg mg/kg	6.17E-07	SL-9 SL-3		-				-	-
Endosulfan I	959-98-8	mg/kg	0.00121	SL-3					-	-	
Endosulfan II	33213-65-9	mg/kg	0.00121	SL-3				-		-	
Endosulfan Sulfate	1031-07-8	mg/kg	2.01	SL-3				-	-	-	
Endrin	72-20-8	mg/kg	0.00044	SL-3			-	-	-		
Endrin Aldehyde	7421-93-4	mg/kg	0.00243	SL-3			-		-	-	ı - l

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SS-32 11/17/2017 SS-32-0-1.5 0 - 1.5 ft	SS-33 11/17/2017 SS-33-0-1.5 0 - 1.5 ft	SS-34 11/17/2017 SS-34-0-1.5 0 - 1.5 ft	SS-35 11/17/2017 SS-35-0-1.5 0 - 1.5 ft	SS-36 11/17/2017 SS-36-0-1.5 0 - 1.5 ft	SS-37 11/17/2017 SS-37-0-1.5 0 - 1.5 ft	SS-38 11/17/2017 SS-38-0-1 0 - 1 ft	SS-39 11/17/2017 SS-39-0-1.25 0 - 1.25 ft	T117 A10 01/17/2006 T117-A10-SB-01 0 - 1.5 ft	T117 A11 01/24/2006 T117-A11-SB-0.0-0.5 0 - 0.5 ft
			SPM_RI_VADOSE- SOILS_SLS	Screening Level	0 - 1.0 K	0 - 1.0 it	0 - 1.0 K	0-110	0 - 1.20 10	0 - 1.010	0 - 0.0 it			
Analyte	CAS RN	Unit	2022.02	Source										
Total PAHs (ND=0) Total cPAHs TEQ (ND = 0)	T-PAH T-cPAH-0U	mg/kg mg/kg	0.00031	SL-3					-		-	-	< 0.066 U < 0 U	-
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg	0.00031	SL-3									< 0.04983 U	
Total cPAHs TEQ (ND multiplier Unknown)	T-cPAH-UnkU	mg/kg	0.00031	SL-3					_	_			< 0.06 U	
Semivolatile Organic Compounds														
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.00133	SL-3					-	-				
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.97	SL-3	-					-	-			-
2,4-Dichlorophenol	120-83-2	mg/kg	0.0694	SL-3					-	-	-			
2,4-Dimethylphenol 2,4-Dinitrophenol	105-67-9 51-28-5	mg/kg mg/kg	0.029 0.4	SL-8 SL-3										
2,4-Dinitrophenol	121-14-2	mg/kg	0.00279	SL-3							-			
2,6-Dinitrotoluene	606-20-2	mg/kg	0.667	SL-1							_			
2-Chloronaphthalene	91-58-7	mg/kg	5.36	SL-3					-		_	-		
2-Chlorophenol	95-57-8	mg/kg	0.2	SL-3							_			
2-Methylphenol	95-48-7	mg/kg	0.069	SL-8										
2-Nitroaniline 2-Nitrophenol	88-74-4 88-75-5	mg/kg	800	SL-1	-					-	-			
3,3'-Dichlorobenzidine	91-94-1	mg/kg mg/kg	3.43E-05	SL-3						-				
3-Nitroaniline	99-09-2	mg/kg	0.40L-00	OL-0		-	<u> </u>			-				
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.134	SL-3					-	-				
4-Bromophenyl phenyl ether	101-55-3	mg/kg			-		-		-	-	-			
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.498	SL-3							-			
4-Chloroaniline	106-47-8	mg/kg	5	SL-1										
4-Chlorophenyl phenyl ether	7005-72-3 106-44-5	mg/kg	0.67	SL-8					-					
4-Methylphenol 4-Nitroaniline	100-44-5	mg/kg ma/ka	50	SL-6 SL-1										
4-Nitrophenol	100-01-0	mg/kg	7	SL-9										
Benzoic acid	65-85-0	mg/kg	0.65	SL-8					_	_				
Benzyl alcohol	100-51-6	mg/kg	0.057	SL-8	-				-	_	-	_		
Benzyl butyl phthalate	85-68-7	mg/kg	0.00361	SL-3	-				-	-	-	-		
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	5.09	SL-3					-			-		
Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether	111-91-1 111-44-4	mg/kg mg/kg	0.000331	SL-3						-				
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.102	SL-3										
Carbazole	86-74-8	mg/kg	0.102	OL-0					_	_				
Dibenzofuran	132-64-9	mg/kg	0.54	SL-8					-		-		< 0.066 U	
Diethyl phthalate	84-66-2	mg/kg	0.2	SL-8	-				-	-	-	_		
Dimethyl phthalate	131-11-3	mg/kg	0.071	SL-8					-		-	-		
Di-n-butyl phthalate	84-74-2 117-84-0	mg/kg	0.283 6.2	SL-3 SL-8	-				-	-	-			
Di-n-octyl phthalate Hexachlorobenzene	118-74-1	mg/kg mg/kg	8.02E-06	SL-3										-
Hexachlorobutadiene	87-68-3	ma/ka	0.000212	SL-3										
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.032	SL-3					-		_			
Hexachloroethane	67-72-1	mg/kg	0.000161	SL-3					-	-				
Isophorone	78-59-1	mg/kg	0.583	SL-3					-	-				
Nitrobenzene	98-95-3	mg/kg	0.638 0.000551	SL-3					-					
N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	621-64-7 86-30-6	mg/kg mg/kg	0.000551	SL-3 SL-8					-	-	-			
Pentachlorophenol	87-86-5	mg/kg	3.17E-05	SL-3										
Phenol	108-95-2	mg/kg	0.42	SL-8					_	_	-			
Pesticides and Herbicides														
2,4'-DDD	53-19-0	mg/kg			-				-	-	-	_		
2,4'-DDE	3424-82-6	mg/kg	+						-					
2,4'-DDT	789-02-6	mg/kg	7.075.00	SL-3	-									
4,4'-DDD 4,4'-DDE	72-54-8 72-55-9	mg/kg mg/kg	7.27E-06 1.52E-06	SL-3 SL-3										
4,4'-DDT	50-29-3	mg/kg	1.63E-05	SL-3		-	-		_	_				
Aldrin	309-00-2	mg/kg	4.01E-08	SL-3					-		-			
Alpha-BHC	319-84-6	mg/kg	1.88E-06	SL-3					-		-			
Beta-BHC	319-85-7	mg/kg	6.55E-05	SL-3	-				-	-	-	-	-	-
cis-Chlordane	5103-71-9	mg/kg	0.0001	SL-8					-		-			
cis-Nonachlor	5103-73-1	mg/kg	6	SL-9			-		-	-	-			
Delta-BHC Dieldrin	319-86-8 60-57-1	mg/kg mg/kg	6.17E-07	SL-9 SL-3					-					
Endosulfan I	959-98-8	mg/kg	0.00121	SL-3						-				
Endosulfan II	33213-65-9	mg/kg	0.00121	SL-3						-				
Endosulfan Sulfate	1031-07-8	mg/kg	2.01	SL-3					-		-			
Endrin	72-20-8	mg/kg	0.00044	SL-3		-	-	-	_	_				
Endrin Aldehyde	7421-93-4	mg/kg	0.00243	SL-3					-		-			1

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	T117 A12 01/24/2006 T117-A12-SB-0.0-0.5 0 - 0.5 ft	T117 A12 01/24/2006 T117-A12-SB-0.5-1.5 0.5 - 1.5 ft
			SPM_RI_VADOSE- SOILS SLS	Screening Level		
Analyte	CAS_RN	Unit	2022.02	Source		
Total PAHs (ND=0)	T-PAH	mg/kg			-	
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg	0.00031	SL-3	-	-
Total cPAHs TEQ (ND = 1/2 RDL) Total cPAHs TEQ (ND multiplier Unknown)	T-cPAH-1/2U T-cPAH-UnkU	mg/kg mg/kg	0.00031 0.00031	SL-3 SL-3		-
Semivolatile Organic Compounds	1-cr Arr-Oliko	mg/kg	0.00031	OL-3	-	-
2,4,5-Trichlorophenol	95-95-4	mg/kg	0.00133	SL-3		1
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.97	SL-3		-
2,4-Dichlorophenol	120-83-2	mg/kg	0.0694	SL-3		-
2,4-Dimethylphenol	105-67-9	mg/kg	0.029	SL-8		-
2,4-Dinitrophenol 2,4-Dinitrotoluene	51-28-5 121-14-2	mg/kg mg/kg	0.4 0.00279	SL-3 SL-3		
2,6-Dinitrotoluene	606-20-2	mg/kg	0.667	SL-3		
2-Chloronaphthalene	91-58-7	mg/kg	5.36	SL-3	_	
2-Chlorophenol	95-57-8	mg/kg	0.2	SL-3		-
2-Methylphenol	95-48-7	mg/kg	0.069	SL-8	_	-
2-Nitroaniline	88-74-4	mg/kg	800	SL-1		-
2-Nitrophenol	88-75-5 91-94-1	mg/kg	3.43E-05	CL 2		-
3,3'-Dichlorobenzidine 3-Nitroaniline	91-94-1 99-09-2	mg/kg mg/kg	3.43E-05	SL-3		-
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg mg/kg	0.134	SL-3		-
4-Bromophenyl phenyl ether	101-55-3	mg/kg	0.104	01-0		-
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.498	SL-3		-
4-Chloroaniline	106-47-8	mg/kg	5	SL-1		-
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg				-
4-Methylphenol	106-44-5	mg/kg	0.67	SL-8		-
4-Nitroaniline 4-Nitrophenol	100-01-6 100-02-7	mg/kg mg/kg	50 7	SL-1 SL-9		
Benzoic acid	65-85-0	mg/kg	0.65	SL-9 SL-8		-
Benzyl alcohol	100-51-6	mg/kg	0.057	SL-8		
Benzyl butyl phthalate	85-68-7	mg/kg	0.00361	SL-3		-
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	5.09	SL-3	-	-
Bis(2-chloroethoxy)methane	111-91-1	mg/kg				
Bis(2-chloroethyl) ether	111-44-4	mg/kg	0.000331	SL-3		-
Bis(2-ethylhexyl) phthalate Carbazole	117-81-7 86-74-8	mg/kg mg/kg	0.102	SL-3		-
Dibenzofuran	132-64-9	mg/kg	0.54	SL-8		
Diethyl phthalate	84-66-2	mg/kg	0.2	SL-8		-
Dimethyl phthalate	131-11-3	mg/kg	0.071	SL-8		1
Di-n-butyl phthalate	84-74-2	mg/kg	0.283	SL-3		
Di-n-octyl phthalate	117-84-0	mg/kg	6.2	SL-8		-
Hexachlorobenzene	118-74-1 87-68-3	mg/kg	8.02E-06 0.000212	SL-3 SL-3		
Hexachlorobutadiene Hexachlorocyclopentadiene	77-47-4	mg/kg mg/kg	0.00212	SL-3		
Hexachloroethane	67-72-1	mg/kg	0.000161	SL-3		
Isophorone	78-59-1	mg/kg	0.583	SL-3		
Nitrobenzene	98-95-3	mg/kg	0.638	SL-3		
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.000551	SL-3		-
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.028	SL-8		-
Pentachlorophenol Phenol	87-86-5 108-95-2	mg/kg	3.17E-05 0.42	SL-3 SL-8		
Pesticides and Herbicides	100-90-2	mg/kg	0.42	OL-0		
2,4'-DDD	53-19-0	mg/kg				
2,4'-DDE	3424-82-6	mg/kg				
2,4'-DDT	789-02-6	mg/kg				-
4,4'-DDD	72-54-8	mg/kg	7.27E-06	SL-3		-
4,4'-DDE	72-55-9	mg/kg	1.52E-06	SL-3		
4,4'-DDT Aldrin	50-29-3 309-00-2	mg/kg mg/kg	1.63E-05 4.01E-08	SL-3 SL-3		
Alpha-BHC	319-84-6	mg/kg	1.88E-06	SL-3		-
Beta-BHC	319-85-7	mg/kg	6.55E-05	SL-3		-
cis-Chlordane	5103-71-9	mg/kg	0.0001	SL-8		-
cis-Nonachlor	5103-73-1	mg/kg			_	-
Delta-BHC	319-86-8	mg/kg	6	SL-9	-	-
Dieldrin	60-57-1	mg/kg	6.17E-07	SL-3		
Endosulfan I	959-98-8	mg/kg	0.00121	SL-3	-	
Endosulfan II Endosulfan Sulfate	33213-65-9 1031-07-8	mg/kg mg/kg	0.00121 2.01	SL-3 SL-3		
				SL-3	l	
Endrin	72-20-8	mg/kg	0.00044	SL-3		

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	B-01 11/17/2017 B-01-2-3	B-01-3.5-4.5		B-03 11/17/2017 B-03-0-1	B-03 11/17/2017 B-03-2-3	B-03 11/17/2017 B-03-5-6	B-04 11/17/2017 B-04-0-1	B-04 11/17/2017 B-04-2-2.5	B-04 11/17/2017 B-04-5-6	HA-01 03/11/2021 HA-1-0-1	HA-01 03/11/2021 HA-1-2-3	HA-02 03/11/2021 HA-2-0-1
			SPM_RI_VADOSE- SOILS SLS	Depth Screening Level	2 - 3 ft	3.5 - 4.5 ft	2.5 - 3 ft	0 - 1 ft	2 - 3 ft	5 - 6 ft	0 - 1 ft	2 - 2.5 ft	5 - 6 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft
Analyte	CAS RN	Unit	2022.02	Source						igsquare	ullet					
Endrin ketone	53494-70-5	mg/kg	0.005.00	01.0					-				-	< 0.02 U	< 0.001 U	< 0.02 U
Heptachlor Enevide	76-44-8 1024-57-3	mg/kg	6.62E-08 4.94E-07	SL-3										< 0.00998 U < 0.00998 U	< 0.0005 U < 0.0005 U	< 0.01 U < 0.01 U
Heptachlor Epoxide Lindane	58-89-9	mg/kg mg/ka	0.00389	SL-3 SL-3	-								-	< 0.00998 U	< 0.0005 U	< 0.01 U
Methoxychlor	72-43-5	mg/kg	0.0321	SL-3	_	_			_				_	< 12 U	< 0.00499 U	< 0.1 U
Mirex	2385-85-5	mg/kg	0.00714	SL-3	-		-		-				_	< 0.02 U	< 0.001 U	< 0.02 U
Oxychlordane	27304-13-8	mg/kg			-		-	_	-				-	< 0.02 U	< 0.001 U	< 0.02 U
Total Chlordane	57-74-9	mg/kg	2.27E-05	SL-3												
trans-Chlordane trans-Nonachlor	5103-74-2 39765-80-5	mg/kg	0.0001	SL-8	-	-								< 0.00998 U < 3.99 U	< 0.0005 U < 0.00399 U	< 0.88 U < 0.02 U
Total Petroleum Hydrocarbons	39700-00-0	mg/kg												< 3.99 U	< 0.00399 0	< 0.02 0
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-3	-									< 5.35 U	< 6.37 U	< 7.01 U
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9	-		-		-				_	144	986	124
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9	-		-	_	_				-	579	2840	593
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9					-				-	723	3830	717
Total TPHs	T-TPH	mg/kg	<u> </u>		-											<u> </u>
Volatile Organic Compounds 1.1.1.2-Tetrachloroethane	630-20-6	mg/kg	38.5	SL-1					-	I I	I I			< 0.00107 U	< 0.00125 U	< 0.00166 U
1,1,1-Trichloroethane	71-55-6	mg/kg	371	SL-3										< 0.00107 U	< 0.00125 U	< 0.00166 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.00168	SL-3				-				-	_	< 0.00107 U	< 0.00125 U	< 0.00166 U
1,1,2-Trichloroethane	79-00-5	mg/kg	0.00498	SL-3	-			-	-			-	-	< 0.00107 U	< 0.00125 U	< 0.00166 U
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	2400000	SL-1	_									< 0.00213 U	< 0.00249 U	< 0.00331 U
1,1-Dichloroethane	75-34-3	mg/kg	175	SL-1	-	-		-				-	-	< 0.00107 U	< 0.00125 U	< 0.00166 U
1,1-Dichloroethene	75-35-4	mg/kg	26.1	SL-3				-	-					< 0.00107 U	< 0.00125 U	< 0.00166 U
1,1-Dichloropropene 1,2,3-Trichlorobenzene	563-58-6 87-61-6	mg/kg mg/kg	20	SL-9										< 0.00107 U < 0.00533 U	< 0.00125 U < 0.00623 U	< 0.00166 U < 0.00828 U
1,2,3-Trichloropenzene	96-18-4	mg/kg	0.0063	SL-9 SL-1										< 0.00333 U	< 0.0023 U	< 0.00828 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.031	SL-8										< 0.00533 U	< 0.00623 U	
1,2,4-Trimethylbenzene	95-63-6	mg/kg	800	SL-1	_		-		_				-	< 0.00107 U	< 0.00125 U	
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.23	SL-1	_									< 0.00533 U	< 0.00623 U	
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.5	SL-1	-				-				-	< 0.00107 U	< 0.00125 U	< 0.00166 U
1,2-Dichlorobenzene	95-50-1	mg/kg	0.035	SL-8			-	-	-					< 0.00107 U	< 0.00125 U	< 0.00166 U
1,2-Dichloroethane (EDC) 1,2-Dichloropropane	107-06-2 78-87-5	mg/kg mg/kg	0.351 0.0157	SL-3 SL-3	-									< 0.00107 U	< 0.00125 U < 0.00125 U	< 0.00166 U < 0.00166 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	800	SL-3						- 	 			< 0.00107 U	< 0.00125 U	< 0.00166 U
1,3-Dichlorobenzene	541-73-1	mg/kg	0.0232	SL-3	-								_	< 0.00107 U	< 0.00125 U	< 0.00166 U
1,3-Dichloropropane	142-28-9	mg/kg	1600	SL-1	-		_	-	_		-		_	< 0.00107 U	< 0.00125 U	< 0.00166 U
1,4-Dichloro-2-Butene	110-57-6	mg/kg							-					< 0.00533 U	< 0.00623 U	< 0.00828 U
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SL-8										< 0.00107 U	< 0.00125 U	< 0.00166 U
2,2-Dichloropropane 2-Butanone	594-20-7 78-93-3	mg/kg mg/ka	48000	SL-1	-	-		-		⊢				< 0.00107 U < 0.00533 U	< 0.00125 U < 0.00623 U	< 0.00166 U 0.0561
2-Chloroethyl Vinyl Ether	78-93-3 110-75-8	mg/kg mg/kg	48000	SL-1	-									< 0.00533 UJ	< 0.00623 UJ	
2-Chlorotoluene	95-49-8	mg/kg	1600	SL-1	-									< 0.00333 03	< 0.00025 U	< 0.00166 U
2-Hexanone	591-78-6	mg/kg	400	SL-1	-		-		-		-			< 0.00533 U	< 0.00623 U	< 0.00100 U
2-Pentanone	107-87-9	mg/kg			-	-		_				_	_	< 0.00533 U	< 0.00623 U	< 0.00828 U
4-Chlorotoluene	106-43-4	mg/kg			-		-		-				-	< 0.00107 U	< 0.00125 U	< 0.00166 U
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1	-									< 0.00533 U	< 0.00623 U	< 0.00828 U
Acetone Acrolein	67-64-1 107-02-8	mg/kg mg/kg	72000 0.00443	SL-1 SL-3	-			-	-					0.178 < 0.00533 U	0.106 < 0.00623 U	0.483 < 0.00828 U
Acrylonitrile	107-02-6	mg/kg	0.000443	SL-3										< 0.00533 U	< 0.00623 U	
Benzene	71-43-2	mg/kg	0.00876	SL-3	_			_			-		_	0.00096 J	< 0.00125 U	< 0.00166 U
Bromobenzene	108-86-1	mg/kg	640	SL-1	-									< 0.00107 U	< 0.00125 U	< 0.00166 U
Bromochloromethane	74-97-5	mg/kg										-		< 0.00107 U	< 0.00125 U	< 0.00166 U
Bromodichloromethane	75-27-4	mg/kg	0.0132	SL-3	-									< 0.00107 U	< 0.00125 U	< 0.00166 U
Bromoform	75-25-2	mg/kg	0.0785	SL-3	-				-				-	< 0.00107 U	< 0.00125 U	< 0.00166 U
Bromomethane Carbon Disulfide	74-83-9 75-15-0	mg/kg mg/kg	1.22 8000	SL-3 SL-1										< 0.00107 U < 0.00107 U	< 0.00125 U < 0.00125 U	< 0.00166 U < 0.00166 U
Carbon Distillide Carbon Tetrachloride	75-15-0 56-23-5	mg/kg	0.00287	SL-3										< 0.00107 U	< 0.00125 U	
Chlorobenzene	108-90-7	mg/kg	1.72	SL-3	_			_		-				< 0.00107 U	< 0.00125 U	< 0.00166 U
Chloroethane	75-00-3	mg/kg			-									< 0.00213 U	< 0.00249 U	< 0.00331 U
Chloroform	67-66-3	mg/kg	0.806	SL-3	1								-	< 0.00107 U	< 0.00125 U	< 0.00166 U
Chloromethane	74-87-3	mg/kg			-			-	_			-	-	< 0.00107 U	< 0.00125 U	< 0.00166 U
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	160	SL-1				-						< 0.00107 U	< 0.00125 U	
cis-1,3-Dichloropropene	10061-01-5 124-48-1	mg/kg	0.00627 0.0103	SL-3 SL-3					-	┝═┩	\vdash	-		< 0.00107 U < 0.00107 U	< 0.00125 U < 0.00125 U	< 0.00166 U < 0.00166 U
Dibromochloromethane Dibromomethane	74-95-3	mg/kg mg/kg	800	SL-3 SL-1										< 0.00107 U	< 0.00125 U	< 0.00166 U
Dichlorodifluoromethane	75-71-8	mg/kg	16000	SL-1	-	-								< 0.00107 U	< 0.00125 U	< 0.00166 U
			0.176	SL-3		1				$\overline{}$	-			< 0.00107 U	< 0.00125 U	< 0.00166 U
Ethylbenzene	100-41-4 98-82-8	mg/kg	8000	SL-3 SL-1										< 0.00107 U	< 0.00125 U	0.001000

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	HA-02 03/11/2021 HA-2-2-3 2 - 3 ft	MW-04 03/04/2021 MW-4-0-1 0 - 1 ft	MW-04 03/04/2021 MW-4-4-5 4 - 5 ft	MW-05 03/05/2021 MW-5-0-1	MW-06 03/05/2021 MW-6-0-1 0 - 1 ft	MW-06 03/05/2021 MW-6-4-5	MW-07 03/09/2021 MW-7-0-1	MW-07 03/09/2021 MW-7-3-5	MW-07 03/09/2021 MW-7-5-6	MW-08 03/09/2021 MW-8-0-1 0 - 1 ft	MW-08 03/09/2021 MW-8-3-5
			SPM_RI_VADOSE- SOILS SLS	Screening Level	2-3π	0-1π	4-5π	0 - 1 ft	0-1π	4 - 5 ft	0 - 1 ft	3 - 5 ft	5 - 6 ft	0-1π	3 - 5 ft
Analyte	CAS_RN	Unit	2022.02	Source											
Endrin ketone	53494-70-5	mg/kg			< 0.00498 U	< 3.98 U		< 0.02 U	< 0.00994 U	< 0.001 U	< 0.001 U		< 0.001 U	< 0.001 U	
Heptachlor	76-44-8	mg/kg	6.62E-08	SL-3	< 0.00249 U	< 0.00996 U		< 0.00998 U	< 0.00497 U	< 0.0005 U	< 0.0005 U		< 0.0005 U	< 0.0005 U	
Heptachlor Epoxide	1024-57-3 58-89-9	mg/kg mg/kg	4.94E-07 0.00389	SL-3 SL-3	< 0.00249 U < 0.00249 U	< 0.00996 U < 0.00996 U		< 0.00998 U < 0.00998 U	< 0.00497 U < 0.00497 U	< 0.0005 U < 0.0005 U	< 0.0005 U < 0.0005 U		< 0.0005 U < 0.0005 U	< 0.0005 U < 0.0005 U	
Methoxychlor	72-43-5	mg/kg	0.00369	SL-3	< 0.00249 U	< 0.00996 U		< 0.00998 U	< 0.00497 U	< 0.0005 U	< 0.00499 U	-	< 0.005 U	< 0.0005 U	
Mirex	2385-85-5	mg/kg	0.00714	SL-3	< 0.00498 U	< 1.39 U		< 1.6 U	< 0.00994 U	< 0.00433 U	< 0.00499 U		< 0.003 U	< 0.00499 U	
Oxychlordane	27304-13-8	mg/kg	0.00711	02.0	< 0.00498 U	< 0.0199 U		< 0.02 U	< 0.00994 U	< 0.001 U	< 0.001 U		< 0.001 U	< 0.001 U	
Total Chlordane	57-74-9	mg/kg	2.27E-05	SL-3					_				_	_	
trans-Chlordane	5103-74-2	mg/kg	0.0001	SL-8	< 0.00249 U	< 3.98 U		< 0.00998 U	< 0.00497 U	0.00065	< 0.0005 U		< 0.0005 U	< 0.0005 U	
trans-Nonachlor	39765-80-5	mg/kg			< 0.00498 U	< 0.0199 U		< 0.798 U	< 0.00994 U	< 0.001 U	< 0.001 U		< 0.001 U	< 0.001 U	<u> </u>
Total Petroleum Hydrocarbons	TPH-GRO		30	01.0		< 6.76 U				< 7.01 U	.0511		. 7.00.11	< 6.31 U	
Gasoline Range Organics	TPH-GRO	mg/kg mg/kg	260	SL-3 SL-9	17.2 464	305		14.1 137	11.8 < 57.6 U	< 7.01 U	< 6.5 U < 55.2 U		< 7.63 U < 59 U	< 55.1 U	
Diesel Range Organics Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9	1670	1640		626	< 115 U	122	117		< 118 U	< 110 U	
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	2130	1950		763	< 115 U	122	117		< 118 U	< 110 U	
Total TPHs	T-TPH	mg/kg													
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	38.5	SL-1	< 0.00117 U			< 0.00161 U		< 0.00124 U	< 0.00131 U		< 0.00174 U		
1,1,1-Trichloroethane	71-55-6	mg/kg	371	SL-3	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.00168	SL-3	< 0.00117 U			< 0.00161 U		< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
1,1,2-Trichloroethane	79-00-5	mg/kg	0.00498	SL-3	< 0.00117 U			< 0.00161 U		< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
1,1,2-Trichlorotrifluoroethane	76-13-1 75-34-3	mg/kg	2400000 175	SL-1 SL-1	< 0.00234 U < 0.00117 U	< 0.00253 U < 0.00127 U		< 0.00322 U < 0.00161 U	< 0.00239 U < 0.0012 U	< 0.00249 U < 0.00124 U	< 0.00262 U < 0.00131 U		< 0.00349 U	< 0.00316 U < 0.00158 U	
1,1-Dichloroethane 1,1-Dichloroethene	75-34-3	mg/kg mg/kg	26.1	SL-3	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U < 0.00174 U	< 0.00158 U	
1,1-Dichloropropene	563-58-6	mg/kg	20.1	OL-0	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
1,2,3-Trichlorobenzene	87-61-6	mg/kg	20	SL-9	< 0.00584 U	< 0.00127 U		< 0.00101 U		< 0.00621 U	< 0.00654 U		< 0.00174 U	< 0.00789 U	
1,2,3-Trichloropropane	96-18-4	mg/kg	0.0063	SL-1	< 0.00234 U			< 0.00322 U	< 0.00239 U	< 0.00249 U	< 0.00262 U		< 0.00349 U	< 0.00316 U	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.031	SL-8	< 0.00584 U	< 0.00633 U		< 0.00804 U	< 0.00598 U	< 0.00621 U	< 0.00654 U		< 0.00872 U	< 0.00789 U	
1,2,4-Trimethylbenzene	95-63-6	mg/kg	800	SL-1	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	-
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.23	SL-1	< 0.00584 U			< 0.00804 U	< 0.00598 U	< 0.00621 U	< 0.00654 U		< 0.00872 U	< 0.00789 U	
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.5	SL-1	< 0.00117 U			< 0.00161 U		< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
1,2-Dichlorobenzene	95-50-1	mg/kg	0.035	SL-8	< 0.00117 U			< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U < 0.00174 U	< 0.00158 U	
1,2-Dichloroethane (EDC) 1,2-Dichloropropane	107-06-2 78-87-5	mg/kg mg/kg	0.351 0.0157	SL-3 SL-3	< 0.00117 U	< 0.00127 U < 0.00127 U		< 0.00161 U	< 0.0012 U < 0.0012 U	< 0.00124 U < 0.00124 U	< 0.00131 U < 0.00131 U		< 0.00174 U	< 0.00158 U < 0.00158 U	
1,3,5-Trimethylbenzene	108-67-8	mg/kg	800	SL-3 SL-1	< 0.00117 U	< 0.00127 U		< 0.00161 U		< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
1,3-Dichlorobenzene	541-73-1	mg/kg	0.0232	SL-3	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
1,3-Dichloropropane	142-28-9	mg/kg	1600	SL-1	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	_
1,4-Dichloro-2-Butene	110-57-6	mg/kg			< 0.00584 U	< 0.00633 U		< 0.00804 U	< 0.00598 U	< 0.00621 U	< 0.00654 U		< 0.00872 U	< 0.00789 U	
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SL-8	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
2,2-Dichloropropane	594-20-7	mg/kg			< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
2-Butanone	78-93-3	mg/kg	48000	SL-1	< 0.00584 U	< 0.00633 U		0.0316	0.0084	< 0.00621 U	0.0135		0.0177	< 0.00789 U	
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg	1600	01.4	< 0.00584 UJ < 0.00117 U			< 0.00804 U < 0.00161 U	< 0.00598 U < 0.0012 U	< 0.00621 U < 0.00124 U	< 0.00654 UJ < 0.00131 U		< 0.00872 UJ < 0.00174 U		
2-Chlorotoluene 2-Hexanone	95-49-8 591-78-6	mg/kg mg/kg	400	SL-1 SL-1	< 0.00117 U			< 0.00161 U		< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
2-Pentanone	107-87-9	mg/kg	400	OL-1	< 0.00584 U			0.0113	< 0.00598 U	< 0.00621 U	< 0.00654 U	-	< 0.00872 U	< 0.00789 U	
4-Chlorotoluene	106-43-4	mg/kg			< 0.00117 U			< 0.00161 U		< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1	< 0.00584 U	< 0.00633 U		< 0.00804 U	< 0.00598 U	< 0.00621 U	< 0.00654 U		< 0.00872 U	< 0.00789 U	
Acetone	67-64-1	mg/kg	72000	SL-1	0.0975	0.157		0.359	0.279	0.0652 J	0.171		0.213	0.125	
Acrolein	107-02-8	mg/kg	0.00443	SL-3	< 0.00584 U	< 0.00633 U		< 0.00804 U	< 0.00598 U	< 0.00621 U	< 0.00654 U		< 0.00872 U	< 0.00789 U	
Acrylonitrile	107-13-1	mg/kg	0.000117	SL-3	< 0.00584 U	< 0.00633 U		< 0.00804 U		< 0.00621 U	< 0.00654 UJ		< 0.00872 UJ		
Benzene Bromobenzene	71-43-2 108-86-1	mg/kg	0.00876 640	SL-3 SL-1	< 0.00117 U < 0.00117 U	< 0.00127 U < 0.00127 U		< 0.00161 U < 0.00161 U		< 0.00124 U < 0.00124 U	< 0.00131 U < 0.00131 U	 -	< 0.00174 U < 0.00174 U	< 0.00158 U < 0.00158 U	
Bromochloromethane	74-97-5	mg/kg mg/kg	640	SL-1	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Bromodichloromethane	75-27-4	mg/kg	0.0132	SL-3	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Bromoform	75-25-2	ma/ka	0.0785	SL-3	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00121 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Bromomethane	74-83-9	mg/kg	1.22	SL-3	< 0.00117 U	< 0.00127 U		< 0.00161 U	0.00049 J	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Carbon Disulfide	75-15-0	mg/kg	8000	SL-1	< 0.00117 U	< 0.00127 U		0.001 J	< 0.0012 U	< 0.00124 U	0.00104 J		0.00246	< 0.00158 U	
Carbon Tetrachloride	56-23-5	mg/kg	0.00287	SL-3	< 0.00117 U			< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Chlorobenzene	108-90-7	mg/kg	1.72	SL-3	< 0.00117 U			< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Chloroethane	75-00-3	mg/kg	0.000	CL A	< 0.00234 U			< 0.00322 U	< 0.00239 U	< 0.00249 U	< 0.00262 U		< 0.00349 U	< 0.00316 U	-
Chloroform	67-66-3 74-87-3	mg/kg	0.806	SL-3	< 0.00117 U < 0.00117 U	< 0.00127 U < 0.00127 U		< 0.00161 U < 0.00161 U		< 0.00124 U	< 0.00131 U < 0.00131 U	-	< 0.00174 U < 0.00174 U	< 0.00158 U < 0.00158 U	
Chloromethane cis-1.2-Dichloroethene (cDCE)	/4-8/-3 156-59-2	mg/kg mg/ka	160	SL-1	< 0.00117 U			< 0.00161 U	< 0.0012 U < 0.0012 U	< 0.00124 U < 0.00124 U	< 0.00131 U	-	< 0.00174 U	< 0.00158 U	
cis-1,3-Dichloropropene	10061-01-5	mg/kg mg/kg	0.00627	SL-3	< 0.00117 U	< 0.00127 U	 	< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U	 	< 0.00174 U	< 0.00158 U	
Dibromochloromethane	124-48-1	mg/kg	0.0103	SL-3	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Dibromomethane	74-95-3	mg/kg	800	SL-3	< 0.00117 U			< 0.00161 U		< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Dichlorodifluoromethane	75-71-8	mg/kg	16000	SL-1	< 0.00117 U			< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Ethylbenzene	100-41-4	mg/kg	0.176	SL-3	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Isopropylbenzene	98-82-8	mg/kg	8000	SL-1	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	1 - 7

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	MW-09 03/09/2021 MW-9-0-1	MW-09 03/09/2021 MW-9-5-6	MW-10 03/08/2021 MW-10-0-1	MW-11 03/08/2021 MW-11-0-1	MW-11 03/08/2021 MW-11-3-5	MW-12 03/03/2021 MW-12-0-1	MW-12 03/03/2021 MW-12-3-5	MW-13 03/01/2021 MW-13-0-1	MW-13 03/01/2021 MW-13-3-5	MW-14 03/10/2021 MW-14A-0-1	MW-14 03/01/2021 MW-14-4.5-5
			SPM_RI_VADOSE- SOILS SLS	Depth Screening Level	0 - 1 ft	5 - 6 ft	0 - 1 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	4.5 - 5 ft
Analyte	CAS_RN	Unit	2022.02	Source											
Endrin ketone	53494-70-5	mg/kg			< 0.001 U	< 0.001 U	-				-			-	
Heptachlor	76-44-8	mg/kg	6.62E-08	SL-3	< 0.0005 U	< 0.0005 U								-	
Heptachlor Epoxide	1024-57-3 58-89-9	mg/kg	4.94E-07 0.00389	SL-3	< 0.0005 U < 0.0005 U	< 0.0005 U < 0.0005 U									
Lindane Methoxychlor	72-43-5	mg/kg mg/kg	0.00389	SL-3 SL-3	< 0.0005 U	< 0.0005 U									
Mirex	2385-85-5	mg/kg	0.00714	SL-3	< 0.003 U	< 0.00433 U									
Oxychlordane	27304-13-8	mg/kg	0.00714	OL-0	< 0.001 U	< 0.001 U	_				_		_		
Total Chlordane	57-74-9	mg/kg	2.27E-05	SL-3	_	-	-				-		-		
trans-Chlordane	5103-74-2	mg/kg	0.0001	SL-8	< 0.0005 U	< 0.0005 U								-	
trans-Nonachlor	39765-80-5	mg/kg			< 0.001 U	< 0.001 U									
Total Petroleum Hydrocarbons	TPH-GRO		30	01.0		< 7.13 U	< 6.31 U			< 5.71 U	. 5.00.11		. 0.04.11	< 5.12 U	
Gasoline Range Organics	TPH-GRO TPH-DRO	mg/kg mg/kg	260	SL-3 SL-9	15.6 < 58.7 U	< 7.13 U < 65.9 U	< 56.9 U	31.9 < 54.1 U		< 54.6 U	< 5.26 U < 58.8 U	14.5 < 54.3 U	< 8.91 U < 53.8 U	< 5.12 U 82.4	12.3 < 53.9 U
Diesel Range Organics Motor Oil Range Organics	TPH-DRO	mg/kg	260	SL-9 SL-9	< 117 U	< 132 U	< 114 U	462		< 109 U	145	< 109 U	< 108 U	187	< 108 U
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	< 117 U	< 132 U	< 114 U	462	-	< 109 U	145	< 109 U	< 108 U	269	< 108 U
Total TPHs	T-TPH	mg/kg	200	02.0	-										
Volatile Organic Compounds							•								
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	38.5	SL-1	< 0.00117 U	< 0.00109 U		< 0.0011 U		< 0.00095 U		< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,1,1-Trichloroethane	71-55-6	mg/kg	371	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.00168	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,1,2-Trichloroethane	79-00-5	mg/kg	0.00498	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	2400000	SL-1	< 0.00235 U	< 0.00218 U	< 0.00207 U	< 0.00221 U		< 0.0019 U	< 0.00186 U	< 0.00261 U	< 0.0027 U	< 0.00186 U	< 0.00293 U
1,1-Dichloroethane	75-34-3 75-35-4	mg/kg	175 26.1	SL-1 SL-3	< 0.00117 U	< 0.00109 U < 0.00109 U	< 0.00103 U < 0.00103 U	< 0.0011 U < 0.0011 U		< 0.00095 U < 0.00095 U	< 0.00093 U < 0.00093 U	< 0.0013 U < 0.0013 U	< 0.00135 U < 0.00135 U	< 0.00093 U < 0.00093 U	< 0.00146 U < 0.00146 U
1,1-Dichloroethene	75-35-4 563-58-6	mg/kg	26.1	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,1-Dichloropropene 1,2,3-Trichlorobenzene	87-61-6	mg/kg mg/kg	20	SL-9	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.00552 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,2,3-Trichloropropane	96-18-4	mg/kg	0.0063	SL-3	< 0.00337 U	< 0.00344 U	< 0.00207 U	< 0.00332 U		< 0.00474 U	< 0.00486 U	< 0.00032 U	< 0.00073 U	< 0.00465 U	< 0.00732 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.031	SL-8	< 0.00587 U	< 0.00544 U		< 0.00552 U		< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U	< 0.00465 U	< 0.00732 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	800	SL-1	< 0.00117 U	< 0.00109 U		< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.23	SL-1	< 0.00587 U	< 0.00544 U	< 0.00517 U	< 0.00552 U		< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U	< 0.00465 U	< 0.00732 U
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.5	SL-1	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,2-Dichlorobenzene	95-50-1	mg/kg	0.035	SL-8	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.351	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,2-Dichloropropane	78-87-5	mg/kg	0.0157	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,3,5-Trimethylbenzene 1,3-Dichlorobenzene	108-67-8 541-73-1	mg/kg ma/ka	800 0.0232	SL-1 SL-3	< 0.00117 U < 0.00117 U	< 0.00109 U < 0.00109 U	< 0.00103 U < 0.00103 U	< 0.0011 U < 0.0011 U		< 0.00095 U < 0.00095 U	< 0.00093 U < 0.00093 U	< 0.0013 U < 0.0013 U	< 0.00135 U < 0.00135 U	< 0.00093 U < 0.00093 U	< 0.00146 U < 0.00146 U
1.3-Dichloropropane	142-28-9	ma/ka	1600	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
1,4-Dichloro-2-Butene	110-57-6	mg/kg	1000	OL-1	< 0.00587 U	< 0.00544 U	< 0.00517 U	< 0.00552 U		< 0.00033 U	< 0.00466 U	< 0.00652 U	< 0.00133 U	< 0.00465 U	< 0.00732 U
1.4-Dichlorobenzene	106-46-7	ma/ka	0.11	SL-8	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
2,2-Dichloropropane	594-20-7	mg/kg	•		< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
2-Butanone	78-93-3	mg/kg	48000	SL-1	< 0.00587 U	< 0.00544 U	< 0.00517 U	0.0118		0.0035 J	0.00498	< 0.00652 U	< 0.00675 U	< 0.00465 U	< 0.00732 U
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg			< 0.00587 UJ	< 0.00544 UJ		< 0.00552 U		< 0.00474 U	< 0.00466 U		< 0.00675 UJ	< 0.00465 UJ	< 0.00732 UJ
2-Chlorotoluene	95-49-8	mg/kg	1600	SL-1	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
2-Hexanone	591-78-6	mg/kg	400	SL-1	< 0.00587 U	< 0.00544 U	< 0.00517 U	< 0.00552 U		< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U	< 0.00465 U	< 0.00732 U
2-Pentanone	107-87-9	mg/kg			< 0.00587 U	< 0.00544 U	< 0.00517 U	< 0.00552 U		< 0.00474 U	< 0.00466 U	< 0.00652 UJ	< 0.00675 UJ	< 0.00465 U	< 0.00732 UJ
4-Chlorotoluene	106-43-4 108-10-1	mg/kg mg/ka	6400	SL-1	< 0.00117 U < 0.00587 U	< 0.00109 U < 0.00544 U	< 0.00103 U < 0.00517 U	< 0.0011 U < 0.00552 U		< 0.00095 U < 0.00474 U	< 0.00093 U < 0.00466 U	< 0.0013 U < 0.00652 U	< 0.00135 U < 0.00675 U	< 0.00093 U < 0.00465 U	< 0.00146 U < 0.00732 U
4-Methyl-2-pentanone Acetone	67-64-1	mg/kg	72000	SL-1	0.0695	0.00344 0	0.0703	0.211		0.0683	0.00466 U	0.144 J	0.0682 J	0.0673	0.0735 J
Acrolein	107-02-8	mg/kg	0.00443	SL-3	< 0.00587 U	< 0.00544 U	< 0.0703	< 0.00552 U		< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U	< 0.0075	< 0.00732 U
Acrylonitrile	107-13-1	mg/kg	0.000117	SL-3	< 0.00587 UJ	< 0.00544 UJ	< 0.00517 U	< 0.00552 U		< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U	< 0.00465 UJ	< 0.00732 U
Benzene	71-43-2	mg/kg	0.00876	SL-3	< 0.00117 U	0.00056 J	0.00067 J	< 0.0011 U		0.00056 J	0.00062 J	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Bromobenzene	108-86-1	mg/kg	640	SL-1	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Bromochloromethane	74-97-5	mg/kg			< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Bromodichloromethane	75-27-4	mg/kg	0.0132	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Bromoform	75-25-2	mg/kg	0.0785	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Bromomethane Carbon Disulfide	74-83-9 75-15-0	mg/kg	1.22 8000	SL-3 SL-1	< 0.00117 U < 0.00117 U	< 0.00109 U < 0.00109 U	< 0.00103 U < 0.00103 U	< 0.0011 U < 0.0011 U		0.00323 0.0129	< 0.00093 U < 0.00093 U	< 0.0013 U < 0.0013 U	< 0.00135 U < 0.00135 U	< 0.00093 U 0.001	< 0.00146 U < 0.00146 U
Carbon Disulfide Carbon Tetrachloride	75-15-0 56-23-5	mg/kg mg/kg	0.00287	SL-1 SL-3	< 0.00117 U	< 0.00109 U		< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.001 < 0.00093 U	< 0.00146 U
Chlorobenzene	108-90-7	mg/kg	1.72	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Chloroethane	75-00-3	mg/kg	1.72	OL-U	< 0.00235 U	< 0.00103 U	< 0.00103 U	< 0.00221 U		< 0.00093 U	< 0.00093 U	< 0.00261 U	< 0.00133 U	< 0.00186 U	< 0.00293 U
Chloroform	67-66-3	mg/kg	0.806	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00233 U
Chloromethane	74-87-3	mg/kg			< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	160	SL-1	< 0.00117 U	0.00076 J	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.00627	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Dibromochloromethane	124-48-1	mg/kg	0.0103	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Dibromomethane	74-95-3	mg/kg	800	SL-1	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Dichlorodifluoromethane	75-71-8 100-41-4	mg/kg	16000	SL-1 SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U < 0.0013 U	< 0.00135 U	< 0.00093 U < 0.00093 U	< 0.00146 U
Ethylbenzene		mg/kg	0.176		0.00111	0.001000		0.00110			0.00000	0.00100	0.001000	0.00000	0.001100
Isopropylbenzene	98-82-8	mg/kg	8000	SL-1	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U	ı	< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	MW-15 03/03/2021 MW-15-0-1	MW-15 03/03/2021 MW-15-3-5	SB-02 10/01/2007 SB-02-1	SB-11 09/28/2007 SB-11-2.5	SB-12 09/28/2007 SB-12-1.5	SB-13 10/01/2007 SB-13-1	SB-13 10/01/2007 SB-13-3.5	SB-14 10/01/2007 SB-14-3	SB-15 10/01/2007 SB-15-3.5	SB-16 10/01/2007 SB-16-3.5	SB18-5.0-072711
	1		SPM_RI_VADOSE-	Depth	0 - 1 ft	3 - 5 ft	1 - 3 ft	2 - 4 ft	2 - 4 ft	1 - 3 ft	4 - 6 ft	3 - 5 ft	4 - 6 ft	4 - 6 ft	5 - 5 ft
Analyte	CAS RN	Unit	SOILS_SLS _2022.02	Screening Level Source											
Endrin ketone	53494-70-5	mg/kg			< 0.001 U	< 0.001 U									
Heptachlor	76-44-8	mg/kg	6.62E-08 4.94E-07	SL-3	< 0.0005 U < 0.004 U	< 0.0005 U < 0.0005 U	< 0.00099 U	< 0.1 U	< 0.019 U	< 0.00099 U	< 0.001 U	< 0.01 U	< 0.1 U	< 0.1 U	
Heptachlor Epoxide Lindane	1024-57-3 58-89-9	mg/kg mg/kg	4.94E-07 0.00389	SL-3 SL-3	< 0.004 U	< 0.0005 U	< 0.00099 U	< 0.1 U	< 0.019 U	< 0.00099 U	< 0.001 U	< 0.01 U	< 0.1 U	< 0.1 U	
Methoxychlor	72-43-5	mg/kg	0.0321	SL-3	< 0.00499 U	< 0.00499 U									
Mirex	2385-85-5	mg/kg	0.00714	SL-3	< 0.001 U	< 0.001 U									
Oxychlordane	27304-13-8	mg/kg			< 0.001 U	< 0.001 U		_				-			
Total Chlordane	57-74-9	mg/kg	2.27E-05	SL-3		_	< 0.0099 U	< 3.1 U	< 0.62 U	< 0.0099 U	< 0.01 U	< 5 U	< 2.7 U	< 5.2 U	
trans-Chlordane	5103-74-2	mg/kg	0.0001	SL-8	< 0.0005 U	< 0.0005 U		-							
trans-Nonachlor	39765-80-5	mg/kg			< 0.001 U	< 0.001 U		<u> </u>	L			L		<u> </u>	
Total Petroleum Hydrocarbons Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-3	18.9	< 7.2 U	< 20 U	< 2000 U	< 100 U	< 20 U	< 20 U	< 200 U	150 J		
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9	< 62.9 U	< 53.5 U	< 50 U	9600 J	1300 J	< 1.8 U	< 50 U	2100 J	4100 J	12000 J	6300 J
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9	< 126 U	< 107 U	< 100 U	26000 J	3700 J	< 6.5 U	< 100 U	8200 J	10000 J	27000 J	34000
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	< 126 U	< 107 U	< 100 U	35600 J	5000 J	< 6.5 U	< 100 U	10300 J	14100 J	39000 J	40300 J
Total TPHs	T-TPH	mg/kg				-		-							
Volatile Organic Compounds	620.00.0	I	20.5	01.1	40.00151	* 0.0000 1:		1 4 0 074 11	40001111	1			- 0.007E ::	I = 0.000 · ·	
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	630-20-6 71-55-6	mg/kg ma/ka	38.5 371	SL-1	< 0.00154 U < 0.00154 U	< 0.0022 U < 0.0022 U		< 0.071 U	< 0.0041 U < 0.0041 U			-	< 0.0075 U < 0.0075 U	< 0.068 U < 0.068 U	
1,1,2,2-Tetrachloroethane	71-55-6 79-34-5	mg/kg mg/kg	0.00168	SL-3 SL-3	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U				< 0.0075 U	< 0.068 U	
1,1,2-Trichloroethane	79-00-5	mg/kg	0.00498	SL-3	< 0.00154 U	< 0.0022 U	-	< 0.071 U	< 0.0041 U				< 0.0075 U		-
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	2400000	SL-1	< 0.00308 U	< 0.00441 U									-
1,1-Dichloroethane	75-34-3	mg/kg	175	SL-1	< 0.00154 U	< 0.0022 U		< 0.071 U	0.00031				< 0.0075 U	< 0.068 U	
1,1-Dichloroethene	75-35-4	mg/kg	26.1	SL-3	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U			-	< 0.0075 U	< 0.068 U	
1,1-Dichloropropene	563-58-6	mg/kg			< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U				< 0.0075 U	< 0.068 U	
1,2,3-Trichlorobenzene	87-61-6 96-18-4	mg/kg	20	SL-9 SL-1	< 0.00769 U < 0.00308 U	< 0.011 U < 0.00441 U		< 0.29 U < 0.071 U	< 0.017 U < 0.0041 U			-	< 0.03 U < 0.0075 U	< 0.27 U < 0.068 U	
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	120-82-1	mg/kg mg/kg	0.0063 0.031	SL-1 SL-8	< 0.00308 U	< 0.00441 U < 0.011 U	< 0.009 U	< 0.071 U	< 0.0041 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.0075 U	< 0.068 U	
1,2,4-Trimethylbenzene	95-63-6	mg/kg	800	SL-0	< 0.00769 U	< 0.0022 U		10	0.00023	< 0.0093 U	< 0.0096 U		< 0.03 U	17	
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.23	SL-1	< 0.00769 U	< 0.011 U		< 0.29 U	< 0.017 U			-	< 0.03 U	< 0.27 UJ	
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.5	SL-1	< 0.00154 U	< 0.0022 U		< 0.29 U	< 0.017 U				< 0.03 U	< 0.27 U	
1,2-Dichlorobenzene	95-50-1	mg/kg	0.035	SL-8	< 0.00154 U	< 0.0022 U	< 0.009 U	0.24	< 0.0041 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.0075 U	0.31	
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.351	SL-3	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U				< 0.0075 U	< 0.068 U	
1,2-Dichloropropane 1,3,5-Trimethylbenzene	78-87-5 108-67-8	mg/kg	0.0157 800	SL-3 SL-1	< 0.00154 U < 0.00154 U	< 0.0022 U < 0.0022 U		< 0.071 U 3.3	< 0.0041 U < 0.017 U				< 0.0075 U 0.058 J	< 0.068 U 6.6	
1,3-Dichlorobenzene	541-73-1	mg/kg mg/kg	0.0232	SL-3	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.017 U		-		< 0.0075 U	< 0.068 U	
1,3-Dichloropropane	142-28-9	mg/kg	1600	SL-3	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U			_	< 0.0075 U	< 0.068 U	
1,4-Dichloro-2-Butene	110-57-6	mg/kg	1000	0 <u>.</u> .	< 0.00769 U	< 0.011 U									
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SL-8	< 0.00154 U	< 0.0022 U	< 0.009 U	0.038	< 0.0041 U	< 0.0093 U	< 0.0098 U	< 0.48 U	< 0.0075 U	0.038	
2,2-Dichloropropane	594-20-7	mg/kg			< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U			-	< 0.0075 U	< 0.068 UJ	
2-Butanone	78-93-3	mg/kg	48000	SL-1	< 0.00769 U	0.00577 J		0.71	0.012				0.0061 J	0.62	
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg	1000	01.4	< 0.00769 U	< 0.011 U								< 0.27 U	
2-Chlorotoluene 2-Hexanone	95-49-8 591-78-6	mg/kg mg/kg	1600 400	SL-1 SL-1	< 0.00154 U < 0.00769 U	< 0.0022 U < 0.011 U		< 0.29 U < 2.9 U	< 0.017 U < 0.017 U				< 0.03 U < 0.03 U	< 0.27 U	
2-Pentanone	107-87-9	mg/kg	400	OL-1	< 0.00769 U	< 0.011 U								× 2.7 K	
4-Chlorotoluene	106-43-4	mg/kg			< 0.00154 U	< 0.0022 U		< 0.29 U	< 0.017 U				< 0.03 U	< 0.27 U	
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1	< 0.00769 U	< 0.011 U		1.4	0.0028			-	< 0.03 U	0.66 J	
Acetone	67-64-1	mg/kg	72000	SL-1	0.0744 J	0.177		< 0.93 U	0.048			-	0.044 J	< 0.58 UJ	
Acrolein	107-02-8	mg/kg	0.00443	SL-3	< 0.00769 U	< 0.011 U		-							
Acrylonitrile	107-13-1 71-43-2	mg/kg	0.000117 0.00876	SL-3 SL-3	< 0.00769 U < 0.00154 U	< 0.011 U < 0.0022 U		0.072	< 0.0041 U				< 0.0075 U	0.078	
Benzene Bromobenzene	108-86-1	mg/kg mg/kg	640	SL-3 SL-1	< 0.00154 U	< 0.0022 U		< 0.29 U	< 0.0041 U				< 0.0075 U	< 0.27 U	
Bromochloromethane	74-97-5	mg/kg mg/kg	040	OL-1	< 0.00154 U	< 0.0022 U		< 0.29 U	< 0.0041 U				< 0.0075 U	< 0.27 U	
Bromodichloromethane	75-27-4	mg/kg	0.0132	SL-3	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U			-	< 0.0075 U	< 0.068 U	
Bromoform	75-25-2	mg/kg	0.0785	SL-3	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U			-	< 0.0075 U	< 0.068 U	
Bromomethane	74-83-9	mg/kg	1.22	SL-3	< 0.00154 U	0.00291		< 0.071 U	< 0.0041 U			-	< 0.0075 U	< 0.068 UJ	
Carbon Disulfide	75-15-0	mg/kg	8000	SL-1	< 0.00154 U	< 0.0022 U		< 0.071 U	0.00012				0.00067 J	< 0.068 U	
Carbon Tetrachloride	56-23-5	mg/kg	0.00287	SL-3	< 0.00154 U < 0.00154 U	< 0.0022 U		< 0.071 U < 0.071 U	< 0.0041 U				< 0.0075 U		
Chlorobenzene Chloroethane	108-90-7 75-00-3	mg/kg mg/kg	1.72	SL-3	< 0.00154 U < 0.00308 U	< 0.0022 U < 0.00441 U		< 0.071 U < 0.071 U	< 0.0041 U < 0.0041 U				< 0.0075 U < 0.0075 U	0.046 < 0.068 U	
Chloroform	67-66-3	mg/kg mg/kg	0.806	SL-3	< 0.00308 U	< 0.00441 U		< 0.071 U	< 0.0041 U				< 0.0075 U	< 0.068 U	
Chloromethane	74-87-3	mg/kg	0.000	32-0	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U			_	< 0.0075 U	< 0.068 U	
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	160	SL-1	< 0.00154 U	< 0.0022 U		8.9	0.0078				0.00054 J	11	
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.00627	SL-3	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U			_	< 0.0075 U	< 0.068 U	-
Dibromochloromethane	124-48-1	mg/kg	0.0103	SL-3	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U				< 0.0075 U	< 0.068 U	
Dibromomethane	74-95-3	mg/kg	800	SL-1 SL-1	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U				< 0.0075 U	< 0.068 U	
Dichlorodifluoromethane Ethylbenzene	75-71-8 100-41-4	mg/kg	16000 0.176	SL-1 SL-3	< 0.00154 U < 0.00154 U	< 0.0022 U < 0.0022 U		< 0.071 U	< 0.0041 U 0.00023				< 0.0075 U	< 0.068 U	
Ethylbenzene Isopropylbenzene	98-82-8	mg/kg mg/kg	8000	SL-3 SL-1	< 0.00154 U	< 0.0022 U		0.56	< 0.0023 < 0.017 U				0.0078 J 0.01 J	1.7	
Inobioblinging	30-02-0	ilig/kg	0000	OL-1	- 0.00104 0	· 0.0022 U		0.50	1 .0.017 0	!	-		0.013		

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	SB-20 07/27/2011 SB20-4.0-072711	SB-23 07/28/2011 SB23-1.0-072811	SB-26 03/04/2021 SB-26-0-1	SB-26 03/03/2021 SB-26-4-5	SB-27 03/09/2021 SB-27-0-1	SB-27 03/09/2021 SB-27-3-5	SB-28 03/01/2021 SB-28-0-1	SB-28 03/01/2021 SB-28-3-5	SB-29 03/01/2021 SB-29-0-1	SB-29 03/01/2021 SB-29A-3-5
	1		SPM RI VADOSE-	Depth	4 - 4 ft	1 - 1 ft	0 - 1 ft	4 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft	0 - 1 ft	3 - 5 ft
Analyte	CAS RN	Unit	SOILS_SLS 2022.02	Screening Level Source										
Endrin ketone	53494-70-5	mg/kg	_2022.02	Source			< 7.99 U						< 0.001 U	< 0.001 U
Heptachlor	76-44-8	mg/kg	6.62E-08	SL-3		-	< 0.998 U		-	-			< 0.0005 U	< 0.0005 U
Heptachlor Epoxide	1024-57-3	mg/kg	4.94E-07	SL-3		-	< 0.00998 U		-	-			< 0.0005 U	< 0.0005 U
Lindane	58-89-9	mg/kg	0.00389	SL-3			< 0.00998 U						< 0.0005 U	< 0.0005 U
Methoxychlor Mirex	72-43-5 2385-85-5	mg/kg mg/kg	0.0321 0.00714	SL-3 SL-3			< 0.0998 U < 1.2 U						< 0.005 U < 0.001 U	< 0.00499 U < 0.001 U
Oxychlordane	27304-13-8	mg/kg	0.00714	SL-3			< 0.02 U					 	< 0.001 U	< 0.001 U
Total Chlordane	57-74-9	mg/kg	2.27E-05	SL-3										
trans-Chlordane	5103-74-2	mg/kg	0.0001	SL-8			< 0.00998 U		-		-		< 0.0005 U	< 0.0005 U
trans-Nonachlor	39765-80-5	mg/kg					< 5.99 U						< 0.001 U	< 0.001 U
Total Petroleum Hydrocarbons	TPH-GRO	ma miller	30	SL-3			40.0		77.7		< 6.92 U		0.54	< 7.78 U
Gasoline Range Organics Diesel Range Organics	TPH-GRO TPH-DRO	mg/kg mg/kg	260	SL-3 SL-9	1400 J	< 27 U	12.6 1670	-	77.7 266		< 54.4 U		8.51 < 54.6 U	< 7.78 U < 61.5 U
Motor Oil Range Organics	TPH-DRO	mg/kg	260	SL-9	8500	81	7100		994		540		137	< 123 U
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	9900 J	94.5	8770		1260		540		137	< 123 U
Total TPHs	T-TPH	mg/kg												
Volatile Organic Compounds				81.4										
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	630-20-6 71-55-6	mg/kg	38.5 371	SL-1	-	-	< 0.00105 UJ < 0.00105 UJ		< 0.00133 U < 0.00133 U		< 0.001 UJ < 0.001 UJ		< 0.00116 U < 0.00116 U	< 0.00122 U < 0.00122 U
1,1,2,2-Tetrachloroethane	71-55-6 79-34-5	mg/kg mg/kg	0.00168	SL-3 SL-3			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ < 0.001 UJ		< 0.00116 U	< 0.00122 U < 0.00122 U
1,1,2-Trichloroethane	79-34-3	mg/kg	0.00498	SL-3	-	-	< 0.00105 UJ	-	< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	2400000	SL-1			< 0.00209 UJ		< 0.00266 U		< 0.00199 UJ		< 0.00232 U	< 0.00243 U
1,1-Dichloroethane	75-34-3	mg/kg	175	SL-1			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
1,1-Dichloroethene	75-35-4	mg/kg	26.1	SL-3			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
1,1-Dichloropropene 1,2,3-Trichlorobenzene	563-58-6 87-61-6	mg/kg	20	SL-9		-	< 0.00105 UJ < 0.00524 UJ	-	< 0.00133 U < 0.00665 U		< 0.001 UJ < 0.00499 UJ		< 0.00116 U < 0.0058 U	< 0.00122 U < 0.00609 U
1,2,3-Trichloropenzene	96-18-4	mg/kg mg/kg	0.0063	SL-9 SL-1			< 0.00524 UJ		< 0.00665 U		< 0.00499 UJ		< 0.0058 U	< 0.00609 U < 0.00243 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.0003	SL-8			< 0.00209 UJ		< 0.00200 U		< 0.00199 UJ		< 0.00232 U	< 0.00243 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	800	SL-1			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.23	SL-1			< 0.00524 UJ	-	< 0.00665 U		< 0.00499 UJ		< 0.0058 U	< 0.00609 U
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.5	SL-1	-	-	< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
1,2-Dichlorobenzene 1.2-Dichloroethane (EDC)	95-50-1 107-06-2	mg/kg	0.035 0.351	SL-8 SL-3		-	0.0123 J < 0.00105 UJ		< 0.00133 U < 0.00133 U		< 0.001 UJ < 0.001 UJ	-	< 0.00116 U < 0.00116 U	< 0.00122 U < 0.00122 U
1,2-Dichloropropane	78-87-5	mg/kg mg/kg	0.0157	SL-3			< 0.00105 UJ	-	< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	800	SL-3		-	< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
1,3-Dichlorobenzene	541-73-1	mg/kg	0.0232	SL-3			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
1,3-Dichloropropane	142-28-9	mg/kg	1600	SL-1			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
1,4-Dichloro-2-Butene	110-57-6	mg/kg	0.11	01.0			< 0.00524 UJ		< 0.00665 U		< 0.00499 UJ		< 0.0058 U	< 0.00609 U
1,4-Dichlorobenzene	106-46-7 594-20-7	mg/kg	0.11	SL-8		-	0.0204 J < 0.00105 UJ		< 0.00133 U < 0.00133 U		< 0.001 UJ < 0.001 UJ		< 0.00116 U < 0.00116 U	< 0.00122 U < 0.00122 U
2,2-Dichloropropane 2-Butanone	78-93-3	mg/kg mg/ka	48000	SL-1			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		0.00536 J	< 0.00122 U
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg	40000	OL-1			< 0.00524 UJ	_	< 0.00665 UJ		< 0.00499 UJ		< 0.0058 UJ	< 0.00609 UJ
2-Chlorotoluene	95-49-8	mg/kg	1600	SL-1		1	< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
2-Hexanone	591-78-6	mg/kg	400	SL-1		-	< 0.00524 UJ		< 0.00665 U	-	< 0.00499 UJ		< 0.0058 U	< 0.00609 U
2-Pentanone	107-87-9	mg/kg					< 0.00524 UJ		< 0.00665 U	-	< 0.00499 UJ		< 0.0058 UJ	< 0.00609 UJ
4-Chlorotoluene 4-Methyl-2-pentanone	106-43-4 108-10-1	mg/kg mg/kg	6400	SL-1			< 0.00105 UJ < 0.00524 UJ		< 0.00133 U < 0.00665 U		< 0.001 UJ < 0.00499 UJ		< 0.00116 U < 0.0058 U	< 0.00122 U < 0.00609 U
Acetone	67-64-1	mg/kg	72000	SL-1		-	0.0115 J		0.133		< 0.00493 UJ		0.115 J	0.0845 J
Acrolein	107-02-8	mg/kg	0.00443	SL-3		1	< 0.00524 UJ		< 0.00665 U		< 0.00499 UJ		< 0.0058 U	< 0.00609 U
Acrylonitrile	107-13-1	mg/kg	0.000117	SL-3			< 0.00524 UJ		< 0.00665 UJ		< 0.00499 UJ		< 0.0058 U	< 0.00609 U
Benzene	71-43-2	mg/kg	0.00876	SL-3			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
Bromobenzene	108-86-1 74-97-5	mg/kg	640	SL-1			< 0.00105 UJ < 0.00105 UJ	-	< 0.00133 U < 0.00133 U		< 0.001 UJ < 0.001 UJ		< 0.00116 U	< 0.00122 U < 0.00122 U
Bromochloromethane Bromodichloromethane	74-97-5 75-27-4	mg/kg mg/kg	0.0132	SL-3			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
Bromoform	75-25-2	mg/kg	0.0785	SL-3			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
Bromomethane	74-83-9	mg/kg	1.22	SL-3		-	< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
Carbon Disulfide	75-15-0	mg/kg	8000	SL-1			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
Carbon Tetrachloride	56-23-5	mg/kg	0.00287	SL-3			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
Chloroethane	108-90-7 75-00-3	mg/kg	1.72	SL-3			< 0.00105 UJ < 0.00209 UJ		< 0.00133 U < 0.00266 U		< 0.001 UJ < 0.00199 UJ		< 0.00116 U < 0.00232 U	< 0.00122 U < 0.00243 U
Chloroethane Chloroform	67-66-3	mg/kg mg/kg	0.806	SL-3			< 0.00209 UJ		< 0.00266 U		< 0.00199 UJ < 0.001 UJ		< 0.00232 U	< 0.00243 U < 0.00122 U
Chloromethane	74-87-3	mg/kg	0.000	OL-0			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	160	SL-1			0.00158 J		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.00627	SL-3			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
Dibromochloromethane	124-48-1	mg/kg	0.0103	SL-3			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
Dibromomethane	74-95-3	mg/kg	800	SL-1			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
Dichlorodifluoromethane	75-71-8	mg/kg	16000	SL-1			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U < 0.00122 U
Ethylbenzene	100-41-4	ma/ka	0.176	SL-3			< 0.00105 U.I		< 0.00133 U		< 0.001 UJ			

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-30 03/01/2021 SB-30-0-1 0 - 1 ft	SB-30 03/01/2021 SB-30A-3-5 3 - 5 ft	SB-31 03/01/2021 SB-31-0-1 0 - 1 ft	SB-31 03/01/2021 SB-31A-3-5 3 - 5 ft	SB-32 03/08/2021 SB-32-0-1 0 - 1 ft	SB-32 03/08/2021 SB-32-4-5 4 - 5 ft	SB-33 03/03/2021 SB-33-0-1 0 - 1 ft	SB-33 03/03/2021 SB-33-3-5 3 - 5 ft	SB-34 03/01/2021 SB-34-0-1 0 - 1 ft	SB-34 03/23/2021 SB-34R-0-1 0 - 1 ft	SB-34 03/01/2021 SB-34-3-4 3 - 4 ft
			SPM_RI_VADOSE- SOILS_SLS	Screening Level	0-110	3-511	0-110	3-511	0-111	4-511	0-110	3-511	0-110	0-111	3-411
Analyte	CAS RN	Unit	2022.02	Source											
Endrin ketone Heptachlor	53494-70-5 76-44-8	mg/kg mg/kg	6.62E-08	SL-3											
Heptachlor Epoxide	1024-57-3	mg/kg	4.94E-07	SL-3				-							
Lindane	58-89-9	mg/kg	0.00389	SL-3						-			_		
Methoxychlor	72-43-5	mg/kg	0.0321	SL-3		-		-		-	-				-
Mirex	2385-85-5	mg/kg	0.00714	SL-3						-			-		
Oxychlordane Total Chlordane	27304-13-8 57-74-9	mg/kg	2.27E-05	SL-3		-				-					
trans-Chlordane	5103-74-2	mg/kg mg/kg	0.0001	SL-3 SL-8											
trans-Nonachlor	39765-80-5	mg/kg	0.0001	OL-0						-					
Total Petroleum Hydrocarbons															
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-3	< 5 U	< 6.37 U	< 7.76 U	< 9.99 U	7.88	49.8	48.6	15.5	< 6.5 U	-	< 7.93 U
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9	< 54.7 U	< 55.1 U	< 52.5 U	< 54.8 U	< 57.7 U	< 60.6 U	< 58.6 U	< 63.9 U	< 55.9 U		< 54.3 U
Motor Oil Range Organics Diesel and Oil Extended Range Organics	TPH-ORO TPH-EXT	mg/kg mg/kg	260 260	SL-9 SL-9	212 212	< 110 U < 110 U	< 105 U < 105 U	< 110 U < 110 U	178 178	< 121 U < 121 U	327 327	340 340	233 233		< 109 U < 109 U
Total TPHs	T-TPH	mg/kg	200	OL-9						- 1210	321	340			- 100 0
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	38.5	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
1,1,1-Trichloroethane	71-55-6	mg/kg	371	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.00168 0.00498	SL-3 SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U < 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U < 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ < 0.00136 UJ	< 0.001 U	< 0.00108 UJ
1,1,2-Trichloroethane 1.1.2-Trichlorotrifluoroethane	79-00-5 76-13-1	mg/kg ma/ka	2400000	SL-3 SL-1	< 0.00102 U < 0.00204 U	< 0.00111 U	< 0.00132 U < 0.00263 U	< 0.00147 U < 0.00294 U	< 0.00172 U < 0.00343 U	< 0.00143 U	< 0.001 U < 0.002 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U < 0.002 U	< 0.00108 UJ
1,1-Dichloroethane	75-34-3	mg/kg	175	SL-1	< 0.00102 U	< 0.00222 U	< 0.00200 U	< 0.00234 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00272 00	< 0.001 U	< 0.00108 UJ
1,1-Dichloroethene	75-35-4	mg/kg	26.1	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
1,1-Dichloropropene	563-58-6	mg/kg			< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
1,2,3-Trichlorobenzene	87-61-6	mg/kg	20	SL-9	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	96-18-4 120-82-1	mg/kg	0.0063 0.031	SL-1 SL-8	< 0.00204 U < 0.00511 U	< 0.00222 U < 0.00556 U	< 0.00263 U < 0.00658 U	< 0.00294 U < 0.00736 U	< 0.00343 U < 0.00858 U	< 0.00285 U < 0.00714 U	< 0.002 U < 0.005 U	< 0.00305 U < 0.00762 U	< 0.00272 UJ < 0.0068 UJ	< 0.002 U < 0.005 U	< 0.00217 UJ < 0.00542 UJ
1,2,4-1 richiorobenzene 1,2,4-Trimethylbenzene	95-63-6	mg/kg mg/kg	800	SL-8 SL-1	< 0.00511 0	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U	< 0.0068 UJ < 0.00136 UJ	< 0.005 U	< 0.00542 UJ
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.23	SL-1	< 0.00102 U	< 0.00556 U	< 0.00152 U	< 0.00736 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00132 U	< 0.00130 UJ	< 0.001 U	< 0.00542 UJ
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.5	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
1,2-Dichlorobenzene	95-50-1	mg/kg	0.035	SL-8	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.351	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
1,2-Dichloropropane 1,3,5-Trimethylbenzene	78-87-5 108-67-8	mg/kg mg/ka	0.0157 800	SL-3 SL-1	< 0.00102 U < 0.00102 U	< 0.00111 U < 0.00111 U	< 0.00132 U < 0.00132 U	< 0.00147 U < 0.00147 U	< 0.00172 U < 0.00172 U	< 0.00143 U < 0.00143 U	< 0.001 U < 0.001 U	< 0.00152 U < 0.00152 U	< 0.00136 UJ < 0.00136 UJ	< 0.001 U < 0.001 U	< 0.00108 UJ < 0.00108 UJ
1,3-Dichlorobenzene	541-73-1	mg/kg	0.0232	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
1,3-Dichloropropane	142-28-9	mg/kg	1600	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
1,4-Dichloro-2-Butene	110-57-6	mg/kg			< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SL-8	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	
2,2-Dichloropropane 2-Butanone	594-20-7 78-93-3	mg/kg mg/kg	48000	SL-1	< 0.00102 U < 0.00511 U	< 0.00111 U < 0.00556 U	< 0.00132 U < 0.00658 U	< 0.00147 U < 0.00736 U	< 0.00172 U < 0.00858 U	< 0.00143 U < 0.00714 U	< 0.001 U 0.00933	< 0.00152 U < 0.00762 U	< 0.00136 UJ 0.0374 J	< 0.001 U 0.00373 J	< 0.00108 UJ < 0.00542 UJ
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg	46000	SL-1	< 0.00511 UJ		< 0.00658 UJ	< 0.00736 UJ	< 0.00858 U	< 0.00714 U	< 0.00933	< 0.00762 U	< 0.0068 UJ	< 0.00373 J	< 0.00542 UJ
2-Chlorotoluene	95-49-8	mg/kg	1600	SL-1	< 0.00011 00	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00114 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
2-Hexanone	591-78-6	mg/kg	400	SL-1	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ
2-Pentanone	107-87-9	mg/kg			< 0.00511 UJ	< 0.00556 UJ	< 0.00658 UJ	< 0.00736 UJ	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U	0.0123 J	< 0.005 U	< 0.00542 UJ
4-Chlorotoluene	106-43-4 108-10-1	mg/kg	6400	SL-1	< 0.00102 U < 0.00511 U	< 0.00111 U < 0.00556 U	< 0.00132 U < 0.00658 U	< 0.00147 U	< 0.00172 U < 0.00858 U	< 0.00143 U < 0.00714 U	< 0.001 U < 0.005 U	< 0.00152 U < 0.00762 U	< 0.00136 UJ < 0.0068 UJ	< 0.001 U	< 0.00108 UJ < 0.00542 UJ
4-Methyl-2-pentanone Acetone	67-64-1	mg/kg mg/kg	72000	SL-1	0.0426 J	0.00556 U	0.0056 J	< 0.00736 U 0.0883 J	0.00556	0.17	0.11	0.0447	0.24 J	< 0.005 U 0.0828	0.00542 0J
Acrolein	107-02-8	mg/kg	0.00443	SL-3	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ
Acrylonitrile	107-13-1	mg/kg	0.000117	SL-3	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ
Benzene	71-43-2	mg/kg	0.00876	SL-3	< 0.00102 U	0.00037 J	< 0.00132 U	< 0.00147 U	< 0.00172 UJ	< 0.00143 U	0.00035 J	< 0.00152 U	0.00067 J	0.00065 J	< 0.00108 UJ
Bromobenzene	108-86-1	mg/kg	640	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Bromochloromethane Bromodichloromethane	74-97-5 75-27-4	mg/kg mg/kg	0.0132	SL-3	< 0.00102 U < 0.00102 U	< 0.00111 U < 0.00111 U	< 0.00132 U < 0.00132 U	< 0.00147 U < 0.00147 U	< 0.00172 U < 0.00172 U	< 0.00143 U < 0.00143 U	< 0.001 U < 0.001 U	< 0.00152 U < 0.00152 U	< 0.00136 UJ < 0.00136 UJ	< 0.001 U < 0.001 U	< 0.00108 UJ < 0.00108 UJ
Bromoform	75-25-2	mg/kg	0.0785	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Bromomethane	74-83-9	mg/kg	1.22	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	0.00151	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Carbon Disulfide	75-15-0	mg/kg	8000	SL-1	< 0.00102 U	< 0.00111 U	0.0009 J	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Carbon Tetrachloride	56-23-5	mg/kg	0.00287	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Chlorobenzene	108-90-7	mg/kg	1.72	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Chloroethane Chloroform	75-00-3 67-66-3	mg/kg mg/kg	0.806	SL-3	< 0.00204 U < 0.00102 U	< 0.00222 U < 0.00111 U	< 0.00263 U < 0.00132 U	< 0.00294 U < 0.00147 U	< 0.00343 U < 0.00172 U	< 0.00285 U < 0.00143 U	< 0.002 U < 0.001 U	< 0.00305 U < 0.00152 U	< 0.00272 UJ < 0.00136 UJ	< 0.002 U < 0.001 U	< 0.00217 UJ < 0.00108 UJ
Chloromethane	74-87-3	mg/kg	0.000	0L-0	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	160	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.00627	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Dibromochloromethane	124-48-1	mg/kg	0.0103	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Dibromomethane Dichlorodifluoromethane	74-95-3 75-71-8	mg/kg mg/kg	800 16000	SL-1 SL-1	< 0.00102 U < 0.00102 U	< 0.00111 U < 0.00111 U	< 0.00132 U < 0.00132 U	< 0.00147 U < 0.00147 U	< 0.00172 U < 0.00172 U	< 0.00143 U < 0.00143 U	< 0.001 U < 0.001 U	< 0.00152 U < 0.00152 U	< 0.00136 UJ < 0.00136 UJ	< 0.001 U < 0.001 U	< 0.00108 UJ
Ethylbenzene	100-41-4	mg/kg ma/ka	0.176	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
			0.170	OL-0		0.0011110	- 0.00 IOZ U	0.00 PT U	- 0.00112 U	- 0.00 PTO U	0.0010	U	- 0.00100 00	- 0.0010	< 0.00108 UJ

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date	SB-34 03/23/2021	SS-01 02/09/2016	SS-02 02/09/2016	SS-03 02/09/2016	SS-04 02/10/2016	SS-05 02/10/2016	SS-06 02/10/2016
				Sample Depth	SB-34R-3-4 3 - 4 ft	SPM-SS-01-02092016 0 - 1.6 ft	SPM-SS-02-02092016 0 - 1.6 ft	SPM-SS-03-02092016 0 - 1.6 ft	SPM-SS-04-02102016 0 - 1.6 ft	SPM-SS-05-02102016 0 - 1.6 ft	SPM-SS-06-02102016 0 - 1.6 ft
			SPM_RI_VADOSE- SOILS_SLS	Screening Level	<u> </u>	0 110 11	,	C non			
Analyte	CAS_RN	Unit	2022.02	Source							
Endrin ketone Heptachlor	53494-70-5 76-44-8	mg/kg mg/kg	6.62E-08	SL-3		-	-	-			-
Heptachlor Epoxide	1024-57-3	mg/kg	4.94E-07	SL-3		-					
Lindane	58-89-9	mg/kg	0.00389	SL-3			_	_			_
Methoxychlor	72-43-5	mg/kg	0.0321	SL-3	-		-	-			-
Mirex	2385-85-5	mg/kg	0.00714	SL-3		-	-	-		-	-
Oxychlordane	27304-13-8	mg/kg		01.0		-	-	-	-		-
Total Chlordane trans-Chlordane	57-74-9 5103-74-2	mg/kg mg/kg	2.27E-05 0.0001	SL-3 SL-8		-	-	-		-	-
trans-Nonachlor	39765-80-5	mg/kg	0.0001	SL-0		-	-	-			-
Total Petroleum Hydrocarbons	00100-00-0	mg/ng									-
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-3							-
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9		-	-	-			-
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9		-	-	-			-
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9			-	-			-
Total TPHs Volatile Organic Compounds	T-TPH	mg/kg									-
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	38.5	SL-1	< 0.00104 U	I -		I	I		-
1,1,1-Trichloroethane	71-55-6	mg/kg	371	SL-3	< 0.00104 U	-	-	-			-
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.00168	SL-3	< 0.00104 U						_
1,1,2-Trichloroethane	79-00-5	mg/kg	0.00498	SL-3	< 0.00104 U	-	-	-		-	-
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	2400000	SL-1	< 0.00209 U		-	-		-	-
1,1-Dichloroethane	75-34-3	mg/kg	175	SL-1	< 0.00104 U		-	-			-
1,1-Dichloroethene 1,1-Dichloropropene	75-35-4 563-58-6	mg/kg mg/kg	26.1	SL-3	< 0.00104 U < 0.00104 U		-				-
1,2,3-Trichlorobenzene	87-61-6	mg/kg	20	SL-9	< 0.00522 U	-	-	-			_
1,2,3-Trichloropropane	96-18-4	mg/kg	0.0063	SL-1	< 0.00209 U	_	_	_			-
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.031	SL-8	< 0.00522 U	-	-	-			-
1,2,4-Trimethylbenzene	95-63-6	mg/kg	800	SL-1	< 0.00104 U	-	-	-			-
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.23	SL-1	< 0.00522 U	-		-			-
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.5	SL-1	< 0.00104 U		-	-		-	-
1,2-Dichlorobenzene 1,2-Dichloroethane (EDC)	95-50-1 107-06-2	mg/kg mg/kg	0.035 0.351	SL-8 SL-3	< 0.00104 U < 0.00104 U	-	-	-			-
1,2-Dichloropropane	78-87-5	mg/kg	0.0157	SL-3	< 0.00104 U						
1,3,5-Trimethylbenzene	108-67-8	mg/kg	800	SL-1	< 0.00104 U			_			_
1,3-Dichlorobenzene	541-73-1	mg/kg	0.0232	SL-3	< 0.00104 U		-				-
1,3-Dichloropropane	142-28-9	mg/kg	1600	SL-1	< 0.00104 U		-	-	-		-
1,4-Dichloro-2-Butene	110-57-6	mg/kg			< 0.00522 U	-	-	-			-
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SL-8	< 0.00104 U	-	-	-			-
2,2-Dichloropropane 2-Butanone	594-20-7 78-93-3	mg/kg mg/kg	48000	SL-1	< 0.00104 U < 0.00522 U	-		-			
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg	40000	JL-1	< 0.00522 U					-	_
2-Chlorotoluene	95-49-8	mg/kg	1600	SL-1	< 0.00104 U			_			_
2-Hexanone	591-78-6	mg/kg	400	SL-1	< 0.00522 U						
2-Pentanone	107-87-9	mg/kg			< 0.00522 U	-		-	-		-
4-Chlorotoluene	106-43-4	mg/kg			< 0.00104 U	-				-	-
4-Methyl-2-pentanone	108-10-1 67-64-1	mg/kg	6400 72000	SL-1 SL-1	< 0.00522 U 0.0512	-	-	-			-
Acetone Acrolein	107-02-8	mg/kg mg/kg	0.00443	SL-1 SL-3	< 0.00522 U	-	-	-			
Acrylonitrile	107-13-1	mg/kg	0.000117	SL-3	< 0.00522 U	-					-
Benzene	71-43-2	mg/kg	0.00876	SL-3	< 0.00104 U		-	-			-
Bromobenzene	108-86-1	mg/kg	640	SL-1	< 0.00104 U	-		-		-	-
Bromochloromethane	74-97-5	mg/kg			< 0.00104 U		-	-			-
Bromodichloromethane	75-27-4	mg/kg	0.0132	SL-3	< 0.00104 U	-	-	-			-
Bromoform	75-25-2	mg/kg	0.0785	SL-3	< 0.00104 U < 0.00104 U		-	-		-	-
Bromomethane Carbon Disulfide	74-83-9 75-15-0	mg/kg mg/kg	1.22 8000	SL-3 SL-1	< 0.00104 U	-	-	-			
Carbon Tetrachloride	56-23-5	mg/kg	0.00287	SL-3	< 0.00104 U		-				
Chlorobenzene	108-90-7	mg/kg	1.72	SL-3	< 0.00104 U	_	-			-	
Chloroethane	75-00-3	mg/kg			< 0.00209 U	-	-	-			-
Chloroform	67-66-3	mg/kg	0.806	SL-3	< 0.00104 U	-	-	-	-	-	-
Chloromethane	74-87-3	mg/kg			< 0.00104 U	-				-	-
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	160 0.00627	SL-1	< 0.00104 U	-	-	-			
cis-1,3-Dichloropropene Dibromochloromethane	10061-01-5 124-48-1	mg/kg ma/ka	0.00627	SL-3 SL-3	< 0.00104 U < 0.00104 U	-	-	-			-
Dibromocnioromethane Dibromomethane	74-95-3	mg/kg mg/kg	800	SL-3 SL-1	< 0.00104 U		-	-			-
Dichlorodifluoromethane	75-71-8	mg/kg	16000	SL-1	< 0.00104 U		-	-			-
Ethylbenzene	100-41-4	mg/kg	0.176	SL-3	< 0.00104 U	_	-	-			-
Isopropylbenzene	98-82-8	mg/kg	8000	SL-1	< 0.00104 U						

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SS-07 02/09/2016 SPM-SS-07-02092016 0 - 1.6 ft	SS-08 02/09/2016 SPM-SS-08-02092016 0 - 1.6 ft	SS-09 02/10/2016 SPM-SS-09-02102016 0 - 1.6 ft	SS-10 02/10/2016 SPM-SS-10-02102016 0 - 1.6 ft	SS-11 02/10/2016 SPM-SS-11-02102016 0 - 1.6 ft	SS-12 02/09/2016 SPM-SS-12-02092016 0 - 1.6 ft
			SPM_RI_VADOSE- SOILS SLS	Screening Level	0 - 1.6 ft	υ - 1.6 π	0 - 1.6 ft			
Analyte	CAS RN	Unit	2022.02	Source						
Endrin ketone	53494-70-5	mg/kg								
Heptachlor	76-44-8	mg/kg	6.62E-08	SL-3					-	-
Heptachlor Epoxide	1024-57-3	mg/kg	4.94E-07	SL-3						-
Lindane	58-89-9	mg/kg	0.00389	SL-3					-	-
Methoxychlor	72-43-5	mg/kg	0.0321 0.00714	SL-3					-	-
Mirex Oxychlordane	2385-85-5 27304-13-8	mg/kg mg/kg	0.00714	SL-3					-	-
Total Chlordane	57-74-9	mg/kg	2.27E-05	SL-3				-		-
trans-Chlordane	5103-74-2	mg/kg	0.0001	SL-8					-	-
trans-Nonachlor	39765-80-5	mg/kg							-	-
Total Petroleum Hydrocarbons										
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-3		-		-	-	-
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9					-	-
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9					-	-
Diesel and Oil Extended Range Organics	TPH-EXT T-TPH	mg/kg	260	SL-9						-
Total TPHs Volatile Organic Compounds	I-IPH	mg/kg	1							
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	38.5	SL-1						
1,1,1-Trichloroethane	71-55-6	mg/kg	371	SL-3						-
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.00168	SL-3						_
1,1,2-Trichloroethane	79-00-5	mg/kg	0.00498	SL-3					-	-
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	2400000	SL-1	-	_	-	_		-
1,1-Dichloroethane	75-34-3	mg/kg	175	SL-1					-	-
1,1-Dichloroethene	75-35-4	mg/kg	26.1	SL-3					-	-
1,1-Dichloropropene	563-58-6	mg/kg		01.0					-	-
1,2,3-Trichlorobenzene	87-61-6	mg/kg	20	SL-9		-			-	-
1,2,3-Trichloropropane	96-18-4 120-82-1	mg/kg	0.0063 0.031	SL-1 SL-8		-			-	-
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	95-63-6	mg/kg mg/kg	800	SL-6 SL-1				-		
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.23	SL-1					-	-
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.5	SL-1					-	_
1,2-Dichlorobenzene	95-50-1	mg/kg	0.035	SL-8		-		-	-	-
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.351	SL-3					-	-
1,2-Dichloropropane	78-87-5	mg/kg	0.0157	SL-3		-		-	-	-
1,3,5-Trimethylbenzene	108-67-8	mg/kg	800	SL-1					-	-
1,3-Dichlorobenzene	541-73-1	mg/kg	0.0232	SL-3					-	-
1,3-Dichloropropane 1,4-Dichloro-2-Butene	142-28-9 110-57-6	mg/kg mg/kg	1600	SL-1						
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SL-8					-	-
2,2-Dichloropropane	594-20-7	mg/kg	0.11	OL-O						
2-Butanone	78-93-3	mg/kg	48000	SL-1					_	-
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg							-	_
2-Chlorotoluene	95-49-8	mg/kg	1600	SL-1						-
2-Hexanone	591-78-6	mg/kg	400	SL-1					-	-
2-Pentanone	107-87-9	mg/kg							-	-
4-Chlorotoluene 4-Methyl-2-pentanone	106-43-4 108-10-1	mg/kg	6400	SL-1					-	-
Acetone	67-64-1	mg/kg mg/kg	72000	SL-1						
Acrolein	107-02-8	mg/kg	0.00443	SL-3		-		-		-
Acrylonitrile	107-13-1	mg/kg	0.000117	SL-3					-	
Benzene	71-43-2	mg/kg	0.00876	SL-3		_		_		_
Bromobenzene	108-86-1	mg/kg	640	SL-1					-	-
Bromochloromethane	74-97-5	mg/kg				-		-	-	-
Bromodichloromethane	75-27-4	mg/kg	0.0132	SL-3					-	-
Bromoform	75-25-2	mg/kg	0.0785	SL-3		-			-	-
Bromomethane Carbon Disulfide	74-83-9 75-15-0	mg/kg mg/kg	1.22 8000	SL-3 SL-1					-	
Carbon Distillide Carbon Tetrachloride	56-23-5	mg/kg	0.00287	SL-3					-	-
Chlorobenzene	108-90-7	mg/kg	1.72	SL-3		-		-		
Chloroethane	75-00-3	mg/kg							-	-
Chloroform	67-66-3	mg/kg	0.806	SL-3		-		-		-
Chloromethane	74-87-3	mg/kg							-	-
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	160	SL-1		-		-	-	-
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.00627	SL-3					-	-
<u>Dibromochloromethane</u>	124-48-1	mg/kg	0.0103	SL-3					-	-
Dibromomethane Dichlorodifluoromethane	74-95-3 75-71-8	mg/kg mg/kg	800 16000	SL-1 SL-1						
Ethylbenzene	100-41-4	mg/kg mg/kg	0.176	SL-3						-

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SS-13 02/10/2016 SPM-SS-13-02102016 0 - 1.6 ft	SS-14 02/10/2016 SPM-SS-14-02102016 0 - 1.6 ft	SS-15 02/09/2016 SPM-SS-15-02102016 0 - 1.6 ft	SS-16 02/09/2016 SPM-SS-16-02092016 0 - 1.6 ft	SS-17 02/10/2016 SPM-SS-17-02102016 0 - 1.6 ft	SS-18 02/10/2016 SPM-SS-18-02102016 0 - 1.6 ft
			SPM_RI_VADOSE- SOILS SLS	Screening Level	υ - 1.6 π	U - 1.6 Tt	υ - 1.6 π	U - 1.6 Tt	U - 1.6 ft	υ-1.6π
Analyte	CAS_RN	Unit	2022.02	Source						
Endrin ketone	53494-70-5	mg/kg				-		-	-	
Heptachlor	76-44-8	mg/kg	6.62E-08	SL-3		-			-	
Heptachlor Epoxide Lindane	1024-57-3 58-89-9	mg/kg mg/kg	4.94E-07 0.00389	SL-3 SL-3						
Methoxychlor	72-43-5	mg/kg	0.0321	SL-3		-		-	-	-
Mirex	2385-85-5	mg/kg	0.00714	SL-3						_
Oxychlordane	27304-13-8	mg/kg				_		_	-	-
Total Chlordane	57-74-9	mg/kg	2.27E-05	SL-3		-		-	-	
trans-Chlordane	5103-74-2	mg/kg	0.0001	SL-8		-		-	-	-
trans-Nonachlor	39765-80-5	mg/kg				-		-	-	-
Total Petroleum Hydrocarbons Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-3						
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9						
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9						
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9						-
Total TPHs	T-TPH	mg/kg				-		-	-	
Volatile Organic Compounds	1					1	1	1	1	1
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	38.5	SL-1		-		-	-	-
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	71-55-6 79-34-5	mg/kg mg/kg	371 0.00168	SL-3 SL-3		-		-	-	-
1,1,2,1 etrachioroethane	79-34-5 79-00-5	mg/kg mg/kg	0.00168	SL-3 SL-3		-		-		-
1,1,2-Trichloroetriane 1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	2400000	SL-3						-
1,1-Dichloroethane	75-34-3	mg/kg	175	SL-1		-		-	-	
1,1-Dichloroethene	75-35-4	mg/kg	26.1	SL-3						
1,1-Dichloropropene	563-58-6	mg/kg				-		-	-	-
1,2,3-Trichlorobenzene	87-61-6	mg/kg	20	SL-9						-
1,2,3-Trichloropropane	96-18-4	mg/kg	0.0063	SL-1		-		-	-	-
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.031 800	SL-8		-		-	-	-
1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane	95-63-6 96-12-8	mg/kg mg/kg	0.23	SL-1 SL-1					-	
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.5	SL-1					-	
1,2-Dichlorobenzene	95-50-1	mg/kg	0.035	SL-8		-		-	-	
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.351	SL-3						
1,2-Dichloropropane	78-87-5	mg/kg	0.0157	SL-3		-		-	-	-
1,3,5-Trimethylbenzene	108-67-8	mg/kg	800	SL-1		-		-	-	-
1,3-Dichlorobenzene	541-73-1 142-28-9	mg/kg	0.0232 1600	SL-3 SL-1		-		-	-	-
1,3-Dichloropropane 1,4-Dichloro-2-Butene	110-57-6	mg/kg mg/kg	1600	SL-1					-	-
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SL-8		-		-	-	-
2,2-Dichloropropane	594-20-7	mg/kg	•			-		-	-	-
2-Butanone	78-93-3	mg/kg	48000	SL-1		_		_	-	_
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg				-		-	-	-
2-Chlorotoluene	95-49-8	mg/kg	1600	SL-1		-		-	-	-
2-Hexanone	591-78-6	mg/kg	400	SL-1					-	-
2-Pentanone	107-87-9 106-43-4	mg/kg						-	-	
4-Chlorotoluene 4-Methyl-2-pentanone	106-43-4	mg/kg mg/kg	6400	SL-1		-		-	-	-
Acetone	67-64-1	mg/kg	72000	SL-1		-		-	-	-
Acrolein	107-02-8	mg/kg	0.00443	SL-3		_		_		
Acrylonitrile	107-13-1	mg/kg	0.000117	SL-3						-
Benzene	71-43-2	mg/kg	0.00876	SL-3		-		-	-	-
Bromobenzene	108-86-1	mg/kg	640	SL-1		-		-	-	-
Bromochloromethane Bromodichloromethane	74-97-5 75-27-4	mg/kg	0.0132	CI 2		-		-		-
Bromodicniorometnane Bromoform	75-27-4 75-25-2	mg/kg mg/kg	0.0132	SL-3 SL-3					-	-
Bromomethane	74-83-9	mg/kg	1.22	SL-3		-		-	-	_
Carbon Disulfide	75-15-0	mg/kg	8000	SL-1		-		-	-	
Carbon Tetrachloride	56-23-5	mg/kg	0.00287	SL-3		-		-	-	_
Chlorobenzene	108-90-7	mg/kg	1.72	SL-3					-	-
Chloroethane	75-00-3	mg/kg				-		-	-	-
Chloroform	67-66-3	mg/kg	0.806	SL-3		-		-	-	-
Chloromethane cis-1,2-Dichloroethene (cDCE)	74-87-3 156-59-2	mg/kg	160	SL-1		-		-	-	
cis-1,2-Dichloroetnene (CDCE)	10061-01-5	mg/kg mg/kg	0.00627	SL-1 SL-3						-
Dibromochloromethane	124-48-1	mg/kg	0.0103	SL-3				-		
Dibromomethane	74-95-3	mg/kg	800	SL-1		_		_	-	_
Dichlorodifluoromethane	75-71-8	mg/kg	16000	SL-1		_		_		
Ethylbenzene	100-41-4	mg/kg	0.176	SL-3						
Isopropylbenzene	98-82-8	mg/kg	8000	SL-1	l		l		I	I

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	SS-19 02/10/2016 SPM-SS-19-02102016		SS-21 02/08/2016 SPM-SS-21-02082016	SS-22 02/08/2016 SPM-SS-22-02082016		
	 		SPM RI VADOSE-	Depth	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft
	0.00		SOILS_SLS	Screening Level						
Analyte	CAS_RN 53494-70-5	Unit	_2022.02	Source						
Endrin ketone Heptachlor	76-44-8	mg/kg mg/kg	6.62E-08	SL-3						-
Heptachlor Epoxide	1024-57-3	mg/kg	4.94E-07	SL-3						
Lindane	58-89-9	mg/kg	0.00389	SL-3						
Methoxychlor	72-43-5	mg/kg	0.0321	SL-3		-	-	_		-
Mirex	2385-85-5	mg/kg	0.00714	SL-3		-			-	-
Oxychlordane	27304-13-8	mg/kg							-	-
Total Chlordane	57-74-9	mg/kg	2.27E-05	SL-3 SL-8						-
trans-Chlordane trans-Nonachlor	5103-74-2 39765-80-5	mg/kg mg/kg	0.0001	SL-8		-		-		
Total Petroleum Hydrocarbons	33703-00-3	HIQ/KQ								-
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-3						
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9		-			-	-
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9					-	-
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9		-	-	-		-
Total TPHs	T-TPH	mg/kg								
Volatile Organic Compounds	630-20-6		38.5	CL 4						
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	630-20-6 71-55-6	mg/kg mg/kg	38.5 371	SL-1 SL-3					-	-
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg mg/kg	0.00168	SL-3 SL-3						
1,1,2,2-Tetrachioroethane	79-34-5	mg/kg	0.00498	SL-3						
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	2400000	SL-1						
1,1-Dichloroethane	75-34-3	mg/kg	175	SL-1		-			-	-
1,1-Dichloroethene	75-35-4	mg/kg	26.1	SL-3			-	-		
1,1-Dichloropropene	563-58-6	mg/kg			-	-			-	-
1,2,3-Trichlorobenzene	87-61-6	mg/kg	20	SL-9						
1,2,3-Trichloropropane	96-18-4	mg/kg	0.0063	SL-1		-			-	-
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.031	SL-8		-			-	-
1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane	95-63-6 96-12-8	mg/kg mg/kg	800 0.23	SL-1 SL-1						-
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.5	SL-1						-
1,2-Dichlorobenzene	95-50-1	mg/kg	0.035	SL-8		-				-
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.351	SL-3					-	-
1,2-Dichloropropane	78-87-5	mg/kg	0.0157	SL-3		-			-	-
1,3,5-Trimethylbenzene	108-67-8	mg/kg	800	SL-1		-				-
1,3-Dichlorobenzene	541-73-1	mg/kg	0.0232	SL-3						
1,3-Dichloropropane	142-28-9	mg/kg	1600	SL-1					-	-
1,4-Dichloro-2-Butene	110-57-6 106-46-7	mg/kg	0.11	SL-8		-	<u>-</u>	<u>-</u>	-	-
1,4-Dichlorobenzene 2,2-Dichloropropane	106-46-7 594-20-7	mg/kg ma/ka	0.11	SL-8						-
2-Butanone	78-93-3	mg/kg	48000	SL-1	-	-			-	-
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg	40000	OL-1					-	_
2-Chlorotoluene	95-49-8	mg/kg	1600	SL-1		-				
2-Hexanone	591-78-6	mg/kg	400	SL-1		_		_		_
2-Pentanone	107-87-9	mg/kg							-	-
4-Chlorotoluene	106-43-4	mg/kg				-	-	-		
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1		-			-	-
Acrolein	67-64-1 107-02-8	mg/kg	72000 0.00443	SL-1 SL-3					-	-
Acrolein Acrylonitrile	107-02-8	mg/kg mg/kg	0.00443	SL-3 SL-3			-		-	-
Benzene	71-43-2	mg/kg	0.00876	SL-3						
Bromobenzene	108-86-1	mg/kg	640	SL-3		-				
Bromochloromethane	74-97-5	mg/kg								
Bromodichloromethane	75-27-4	mg/kg	0.0132	SL-3						-
Bromoform	75-25-2	mg/kg	0.0785	SL-3		-				-
Bromomethane	74-83-9	mg/kg	1.22	SL-3		-	-	-		
Carbon Disulfide	75-15-0	mg/kg	8000	SL-1						
Carbon Tetrachloride	56-23-5	mg/kg	0.00287	SL-3		-		-		
Chlorobenzene Chloroethane	108-90-7 75-00-3	mg/kg mg/kg	1.72	SL-3		-				-
Chloroform	75-00-3 67-66-3	mg/кg mg/kg	0.806	SL-3						-
Chloromethane	74-87-3	mg/kg	0.000	OL-0		-				
cis-1.2-Dichloroethene (cDCE)	156-59-2	mg/kg	160	SL-1		-				-
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.00627	SL-3						-
Dibromochloromethane	124-48-1	mg/kg	0.0103	SL-3		-				-
Dibromomethane	74-95-3	mg/kg	800	SL-1						-
Dichlorodifluoromethane Ethylbenzene	75-71-8 100-41-4	mg/kg mg/kg	16000 0.176	SL-1 SL-3		-			-	-

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SS-25 02/08/2016 SPM-SS-25-02082016 0 - 1.6 ft	SS-26 02/08/2016 SPM-SS-26-02082016 0 - 1.6 ft	SS-27 02/08/2016 SPM-SS-27-02082016 0 - 1.6 ft	SS-28 02/11/2016 SPM-SS-28-02112016 0 - 1.6 ft	SS-29 02/11/2016 SPM-SS-29-02112016 0 - 1.6 ft	SS-30 02/11/2016 SPM-SS-30-02112016 0 - 1.6 ft	SS-31 11/17/2017 SS-31-0-1.5 0 - 1.5 ft
			SPM_RI_VADOSE- SOILS_SLS	Screening Level		5					
Analyte	CAS_RN	Unit	2022.02	Source							
Endrin ketone	53494-70-5	mg/kg				-				-	-
Heptachlor	76-44-8	mg/kg	6.62E-08	SL-3		-		-	-	-	
Heptachlor Epoxide	1024-57-3	mg/kg	4.94E-07	SL-3	-	-		-	-	-	
Lindane Methoxychlor	58-89-9 72-43-5	mg/kg mg/kg	0.00389 0.0321	SL-3 SL-3		-		-		-	
Mirex	2385-85-5	mg/kg	0.00714	SL-3						_	
Oxychlordane	27304-13-8	mg/kg	0.00714	OL-0		-		_	-		
Total Chlordane	57-74-9	mg/kg	2.27E-05	SL-3		-		-	-	_	
trans-Chlordane	5103-74-2	mg/kg	0.0001	SL-8		_		-		_	
trans-Nonachlor	39765-80-5	mg/kg				_		_		_	-
Total Petroleum Hydrocarbons											
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-3		-				-	
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9	-	-		-	-	-	-
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9		-				-	
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	-	-				-	
Total TPHs Volatile Organic Compounds	T-TPH	mg/kg									<u> </u>
Volatile Organic Compounds 1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	38.5	SL-1							
1.1.1-Trichloroethane	71-55-6	mg/kg	371	SL-3							
1.1.2.2-Tetrachloroethane	79-34-5	ma/ka	0.00168	SL-3		-		-	-	_	-
1,1,2-Trichloroethane	79-00-5	mg/kg	0.00498	SL-3				-			
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	2400000	SL-1		_		-		_	-
1,1-Dichloroethane	75-34-3	mg/kg	175	SL-1		-		_		-	
1,1-Dichloroethene	75-35-4	mg/kg	26.1	SL-3		-		-		-	
1,1-Dichloropropene	563-58-6	mg/kg			-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	87-61-6	mg/kg	20	SL-9						-	-
1,2,3-Trichloropropane	96-18-4	mg/kg	0.0063	SL-1	-			-	-	-	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.031	SL-8		-				-	
1,2,4-Trimethylbenzene	95-63-6 96-12-8	mg/kg	800	SL-1 SL-1	-			-	-	-	
1,2-Dibromo-3-chloropropane	106-93-4	mg/kg	0.23 0.5	SL-1	-	-			-	-	
1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene	95-50-1	mg/kg mg/kg	0.035	SL-1 SL-8	-				-	_	
1.2-Dichloroethane (EDC)	107-06-2	mg/kg	0.351	SL-3							
1,2-Dichloropropane	78-87-5	mg/kg	0.0157	SL-3		_					
1,3,5-Trimethylbenzene	108-67-8	mg/kg	800	SL-1		-		-	-	-	
1,3-Dichlorobenzene	541-73-1	mg/kg	0.0232	SL-3		_				-	
1,3-Dichloropropane	142-28-9	mg/kg	1600	SL-1		-		-	-	-	
1,4-Dichloro-2-Butene	110-57-6	mg/kg				-				-	-
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SL-8		-		-	-		
2,2-Dichloropropane	594-20-7	mg/kg	10000	01.4		-				-	-
2-Butanone 2-Chloroethyl Vinyl Ether	78-93-3 110-75-8	mg/kg mg/kg	48000	SL-1	-	-		-	-	-	
2-Chlorotoluene	95-49-8	mg/kg mg/kg	1600	SL-1	-	-				-	
2-Hexanone	591-78-6	mg/kg	400	SL-1					-		
2-Pentanone	107-87-9	mg/kg	400	OL-1				_	-		
4-Chlorotoluene	106-43-4	mg/kg				_					-
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1		-		-	-	-	-
Acetone	67-64-1	mg/kg	72000	SL-1	-	_		-		-	_
Acrolein	107-02-8	mg/kg	0.00443	SL-3		-		-		-	
Acrylonitrile	107-13-1	mg/kg	0.000117	SL-3		-		-			
Benzene	71-43-2	mg/kg	0.00876	SL-3		-		-		-	-
Bromobenzene	108-86-1	mg/kg	640	SL-1		-		-	-	-	-
Bromochloromethane Bromodichloromethane	74-97-5 75-27-4	mg/kg	0.0132	SL-3	-	-		-	-	-	-
Bromodicniorometnane Bromoform	75-27-4 75-25-2	mg/kg mg/kg	0.0132	SL-3 SL-3						-	-
Bromomethane	74-83-9	mg/kg mg/kg	1.22	SL-3					-	† 	+
Carbon Disulfide	74-63-9 75-15-0	mg/kg	8000	SL-3 SL-1		-		_		-	
Carbon Tetrachloride	56-23-5	mg/kg	0.00287	SL-3		-		_	-	_	
Chlorobenzene	108-90-7	mg/kg	1.72	SL-3		-			-	_	
Chloroethane	75-00-3	mg/kg				_		-		-	
Chloroform	67-66-3	mg/kg	0.806	SL-3		_		-		-	
Chloromethane	74-87-3	mg/kg				-		-	-	-	-
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	160	SL-1		-				-	-
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.00627	SL-3	-	-		-	-	-	
			0.0103	SL-3						-	-
Dibromochloromethane	124-48-1	mg/kg									
Dibromochloromethane Dibromomethane	74-95-3	mg/kg	800	SL-1				-	-	-	-
Dibromochloromethane										-	-

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

Analyte				Sample Depth	11/17/2017 SS-32-0-1.5 0 - 1.5 ft	11/17/2017 SS-33-0-1.5 0 - 1.5 ft	11/17/2017 SS-34-0-1.5 0 - 1.5 ft	11/17/2017 SS-35-0-1.5 0 - 1.5 ft	11/17/2017 SS-36-0-1.5 0 - 1.5 ft	11/17/2017 SS-37-0-1.5 0 - 1.5 ft	11/17/2017 SS-38-0-1 0 - 1 ft	11/17/2017 SS-39-0-1.25 0 - 1.25 ft	01/17/2006 T117-A10-SB-01 0 - 1.5 ft	01/24/2006 T117-A11-SB-0.0-0.5 0 - 0.5 ft
	CAS RN	Unit	SPM_RI_VADOSE- SOILS_SLS 2022.02	Screening Level										
Endrin ketone	53494-70-5	mg/kg	2022.02	Source										
Heptachlor	76-44-8	mg/kg	6.62E-08	SL-3										
Heptachlor Epoxide	1024-57-3	mg/kg	4.94E-07	SL-3	_					_	_			
Lindane	58-89-9	mg/kg	0.00389	SL-3	_					_				
Methoxychlor	72-43-5	mg/kg	0.0321	SL-3	-				-	-				
Mirex	2385-85-5	mg/kg	0.00714	SL-3	-				-	-		-		
Oxychlordane	27304-13-8 57-74-9	mg/kg	2.27E-05	SL-3	-					-				
Total Chlordane trans-Chlordane	5103-74-2	mg/kg mg/kg	0.0001	SL-3 SL-8							-			
trans-Nonachlor	39765-80-5	mg/kg	0.0001	SL-0										
Total Petroleum Hydrocarbons	00.00.00	marka												
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-3	-				-	-	-	-		
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9	_		-		_	_		_	94	
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9	-				-	-			100	
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	-					-			194	
Total TPHs	T-TPH	mg/kg	<u> </u>		-								190	
Volatile Organic Compounds 1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	38.5	SL-1	_					_				
1,1,1-Trichloroethane	71-55-6	mg/kg ma/ka	371	SL-3	-	-								
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.00168	SL-3	-	-				-				
1,1,2-Trichloroethane	79-00-5	mg/kg	0.00498	SL-3	-	-				-				
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	2400000	SL-1	_		_		_	_	_			
1,1-Dichloroethane	75-34-3	mg/kg	175	SL-1	_				_	_				
1,1-Dichloroethene	75-35-4	mg/kg	26.1	SL-3	_	-		-	-	_	-	-		
1,1-Dichloropropene	563-58-6	mg/kg		01.0	-				-	-		-		
1,2,3-Trichlorobenzene	87-61-6	mg/kg	20 0.0063	SL-9	-			-	-	-	-			
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	96-18-4 120-82-1	mg/kg mg/kg	0.0063	SL-1 SL-8							-			
1,2,4-Trichlorobenzene	95-63-6	mg/kg	800	SL-6 SL-1	-					-				
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.23	SL-1										
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.5	SL-1	_		_		_	_				
1,2-Dichlorobenzene	95-50-1	mg/kg	0.035	SL-8	-		-		_	-	_	-		
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.351	SL-3	-				_	-	-	_		
1,2-Dichloropropane	78-87-5	mg/kg	0.0157	SL-3	-				-	-				
1,3,5-Trimethylbenzene	108-67-8	mg/kg	800	SL-1	-				-	-				
1,3-Dichlorobenzene	541-73-1 142-28-9	mg/kg	0.0232 1600	SL-3 SL-1	-	-				-	-			
1,3-Dichloropropane 1,4-Dichloro-2-Butene	110-57-6	mg/kg mg/kg	1600	SL-1										
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SL-8	-									
2,2-Dichloropropane	594-20-7	mg/kg	0.11	OL-0	_	-		-		_	-			
2-Butanone	78-93-3	mg/kg	48000	SL-1	_					_	_			
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg			_		-	-	_	_	-	_		
2-Chlorotoluene	95-49-8	mg/kg	1600	SL-1	_		-		_	_		_		
2-Hexanone	591-78-6	mg/kg	400	SL-1	_				_	_		-		
2-Pentanone	107-87-9	mg/kg			-				-	-	-			
4-Chlorotoluene 4-Methyl-2-pentanone	106-43-4 108-10-1	mg/kg mg/kg	6400	SL-1	-			-		-				
4-Metnyi-z-pentanone Acetone	67-64-1	mg/kg mg/kg	72000	SL-1 SL-1	-					-				
Acrolein	107-02-8	mg/kg	0.00443	SL-3	_	-				_				
Acrylonitrile	107-13-1	mg/kg	0.000117	SL-3	-						-			
Benzene	71-43-2	mg/kg	0.00876	SL-3	1	1		-	_	1	-		-	
Bromobenzene	108-86-1	mg/kg	640	SL-1										
Bromochloromethane	74-97-5	mg/kg			-				-	-		-		
Bromodichloromethane	75-27-4	mg/kg	0.0132	SL-3	-					-	-			
Bromoform Bromomothone	75-25-2	mg/kg	0.0785	SL-3	-					-				
Bromomethane Carbon Disulfide	74-83-9 75-15-0	mg/kg mg/kg	1.22 8000	SL-3 SL-1	-					-				
Carbon Distille Carbon Tetrachloride	56-23-5	mg/kg	0.00287	SL-3	-					-	-			
Chlorobenzene	108-90-7	mg/kg	1.72	SL-3	_					_	_			
Chloroethane	75-00-3	mg/kg			-					-	-			
Chloroform	67-66-3	mg/kg	0.806	SL-3	_					_	-		-	
Chloromethane	74-87-3	mg/kg			-	-				-				
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	160	SL-1	-				-	-	-	-		
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.00627	SL-3	-					-	-			
<u>Dibromochloromethane</u>	124-48-1 74-95-3	mg/kg	0.0103	SL-3	-			-	-	-	-	-		
Dibromomethane Dichlorodifluoromethane	74-95-3 75-71-8	mg/kg mg/kg	800 16000	SL-1 SL-1	-					-				
Ethylbenzene	100-41-4	mg/kg mg/kg	0.176	SL-3		-								
Isopropylbenzene	98-82-8	mg/kg	8000	SL-3							-			

Table B.1. Soil Chemical Analytical Results - Vadose Zone Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	T117 A12 01/24/2006 T117-A12-SB-0.0-0.5 0 - 0.5 ft	T117 A12 01/24/2006 T117-A12-SB-0.5-1.5 0.5 - 1.5 ft
			SPM_RI_VADOSE- SOILS SLS	Screening Level		
Analyte	CAS_RN	Unit	2022.02	Source		
Endrin ketone	53494-70-5	mg/kg	0.005.00	01.0		
Heptachlor	76-44-8	mg/kg	6.62E-08	SL-3		
Heptachlor Epoxide	1024-57-3 58-89-9	mg/kg	4.94E-07 0.00389	SL-3 SL-3		
Lindane Methoxychlor	72-43-5	mg/kg mg/kg	0.00369	SL-3		
Mirex	2385-85-5	ma/ka	0.00714	SL-3	_	
Oxychlordane	27304-13-8	mg/kg				
Total Chlordane	57-74-9	mg/kg	2.27E-05	SL-3		
trans-Chlordane	5103-74-2	mg/kg	0.0001	SL-8	-	
trans-Nonachlor	39765-80-5	mg/kg				
Total Petroleum Hydrocarbons Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-3		
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9		
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9	-	
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	-	
Total TPHs	T-TPH	mg/kg				
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	38.5	SL-1		
1,1,1-Trichloroethane	71-55-6	mg/kg	371	SL-3		
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	79-34-5 79-00-5	mg/kg mg/kg	0.00168 0.00498	SL-3 SL-3		
1,1,2-Trichloroethane 1.1.2-Trichlorotrifluoroethane	79-00-5 76-13-1	mg/kg ma/ka	2400000	SL-3 SL-1	_	-
1,1-Dichloroethane	75-34-3	mg/kg	175	SL-1		
1,1-Dichloroethene	75-35-4	mg/kg	26.1	SL-3		
1,1-Dichloropropene	563-58-6	mg/kg				
1,2,3-Trichlorobenzene	87-61-6	mg/kg	20	SL-9		-
1,2,3-Trichloropropane	96-18-4	mg/kg	0.0063	SL-1	-	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.031	SL-8	-	
1,2,4-Trimethylbenzene	95-63-6	mg/kg	800	SL-1	-	
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	96-12-8 106-93-4	mg/kg	0.23 0.5	SL-1 SI -1	-	
1,2-Dibromoetnane (EDB) 1,2-Dichlorobenzene	95-50-1	mg/kg mg/kg	0.035	SL-8		
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.351	SL-3		
1,2-Dichloropropane	78-87-5	mg/kg	0.0157	SL-3	-	
1,3,5-Trimethylbenzene	108-67-8	mg/kg	800	SL-1	-	
1,3-Dichlorobenzene	541-73-1	mg/kg	0.0232	SL-3		
1,3-Dichloropropane	142-28-9	mg/kg	1600	SL-1	-	
1,4-Dichloro-2-Butene	110-57-6	mg/kg	0.11	01.0		
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SL-8	-	
2,2-Dichloropropane 2-Butanone	594-20-7 78-93-3	mg/kg mg/kg	48000	SL-1	-	
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg	40000	OL-1		
2-Chlorotoluene	95-49-8	mg/kg	1600	SL-1	-	
2-Hexanone	591-78-6	mg/kg	400	SL-1	_	
2-Pentanone	107-87-9	mg/kg				
4-Chlorotoluene	106-43-4	mg/kg				
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1		
Acrolein	67-64-1 107-02-8	mg/kg mg/kg	72000 0.00443	SL-1 SL-3	-	
Acrylonitrile	107-02-6	mg/kg	0.00443	SL-3		
Benzene	71-43-2	mg/kg	0.00876	SL-3		
Bromobenzene	108-86-1	mg/kg	640	SL-1	_	
Bromochloromethane	74-97-5	mg/kg	1			
Bromodichloromethane	75-27-4	mg/kg	0.0132	SL-3	_	
Bromoform	75-25-2	mg/kg	0.0785	SL-3	-	
Bromomethane	74-83-9	mg/kg	1.22	SL-3		
Carbon Disulfide	75-15-0	mg/kg	8000	SL-1		
Carbon Tetrachloride	56-23-5 108-90-7	mg/kg	0.00287 1.72	SL-3 SL-3		
<u>Chlorobenzene</u> Chloroethane	75-00-3	mg/kg mg/kg	1.12	SL-3	-	
Chloroform	67-66-3	mg/kg	0.806	SL-3		
Chloromethane	74-87-3	mg/kg	5.000	32-0	-	-
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	160	SL-1	-	
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.00627	SL-3	-	
Dibromochloromethane	124-48-1	mg/kg	0.0103	SL-3		-
Dibromomethane	74-95-3	mg/kg	800	SL-1		
Dichlorodifluoromethane	75-71-8 100-41-4	mg/kg	16000 0.176	SL-1 SL-3	-	
Ethylbenzene		mg/kg				

Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	B-01 11/17/2017 B-01-2-3 2 - 3 ft	B-01 11/17/2017 B-01-3.5-4.5 3.5 - 4.5 ft		B-03 11/17/2017 B-03-0-1 0 - 1 ft	B-03 11/17/2017 B-03-2-3 2 - 3 ft	B-03 11/17/2017 B-03-5-6 5 - 6 ft	B-04 11/17/2017 B-04-0-1 0 - 1 ft	B-04 11/17/2017 B-04-2-2.5 2 - 2.5 ft	B-04 11/17/2017 B-04-5-6 5 - 6 ft	HA-01 03/11/2021 HA-1-0-1 0 - 1 ft	HA-01 03/11/2021 HA-1-2-3 2 - 3 ft	HA-02 03/11/2021 HA-2-0-1 0 - 1 ft
			SPM_RI_VADOSE- SOILS SLS	Canadana I awal												
Analyte	CAS RN	Unit	2022.02	Screening Level Source												
m.p-Xvlenes	179601-23-1		_2022.02	Source		-								0.00605	< 0.00249 U	0.00163 J
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg ma/ka	556	SL-1										< 0.00107 U	< 0.00249 U	< 0.00163 J
			0.435	SL-3										< 0.00107 U	< 0.00125 U	
Methylene Chloride Methyliodide	75-09-2 74-88-4	mg/kg mg/ka	0.435	SL-3										< 0.00533 U	< 0.00623 U	< 0.00828 U < 0.00166 U
n-Butylbenzene	104-51-8	mg/kg mg/ka	4000	SL-1			-							< 0.00107 U	< 0.00125 U	< 0.00166 U
	103-65-1		8000	SL-1	-									< 0.00107 U	< 0.00125 U	< 0.00166 U
n-Propylbenzene o-Xylene	95-47-6	mg/kg	8000	SL-1										0.00107 0	< 0.00125 U	< 0.00166 U
		mg/kg					-									
p-Isopropyltoluene	99-87-6	mg/kg			-									< 0.00107 U	< 0.00125 U	< 0.00166 U
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1	-			-						< 0.00107 U	< 0.00125 U	< 0.00166 U
Styrene	100-42-5	mg/kg	300	SL-9	-			-						< 0.00107 U	< 0.00125 U	< 0.00166 U
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1	-			-						< 0.00107 U	< 0.00125 U	< 0.00166 U
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3	-			-						0.00956	0.0142	0.0325
Toluene	108-88-3	mg/kg	0.72	SL-3	-									0.00678	0.00122 J	0.00442
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3		-		-					-	0.00847	< 0.00249 U	0.00163 J
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3		-		-					-	< 0.00107 U	< 0.00125 U	< 0.00166 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3										< 0.00107 U	< 0.00125 U	< 0.00166 U
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3		-		-					-	0.00285	< 0.00125 U	0.00186
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1	-	-		-						< 0.00213 U	< 0.00249 U	< 0.00331 U
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1				-						< 0.00533 UJ	< 0.00623 UJ	< 0.00828 UJ
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3										< 0.00107 U	< 0.00125 U	< 0.00166 U
Conventionals																
Total Organic Carbon	TOC	%												1.76	2.02	2.75
Total Solids	TS	%						-						90.99	89.8	81.68

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Direct Contact Unrestricted Protect Surface Water via Ground Water Vadose Zone

Protect Sediment via Erosion

Site-Specific TEE Unrestricted

Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	HA-02 03/11/2021 HA-2-2-3 2 - 3 ft	MW-04 03/04/2021 MW-4-0-1 0 - 1 ft	MW-04 03/04/2021 MW-4-4-5 4 - 5 ft	MW-05 03/05/2021 MW-5-0-1 0 - 1 ft	MW-06 03/05/2021 MW-6-0-1 0 - 1 ft	MW-06 03/05/2021 MW-6-4-5 4 - 5 ft	MW-07 03/09/2021 MW-7-0-1 0 - 1 ft	MW-07 03/09/2021 MW-7-3-5 3 - 5 ft	MW-07 03/09/2021 MW-7-5-6 5 - 6 ft	MW-08 03/09/2021 MW-8-0-1 0 - 1 ft	MW-08 03/09/2021 MW-8-3-5 3 - 5 ft
			SPM_RI_VADOSE-												
			SOILS_SLS	Screening Level											
Analyte	CAS_RN	Unit	_2022.02	Source											
m,p-Xylenes	179601-23-1	mg/kg			< 0.00234 U	< 0.00253 U		< 0.00322 U			< 0.00262 U		< 0.00349 U	< 0.00316 U	
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1	< 0.00117 U	< 0.00127 U		< 0.00161 U		< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Methylene Chloride	75-09-2	mg/kg	0.435	SL-3					< 0.00598 U				< 0.00872 U		
Methyliodide	74-88-4	mg/kg			< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
o-Xylene	95-47-6	mg/kg			< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
p-Isopropyltoluene	99-87-6	mg/kg			< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Styrene	100-42-5	mg/kg	300	SL-9	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3	0.00485	0.00517	-	< 0.00161 U	0.00122	0.0006 J	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Toluene	108-88-3	mg/kg	0.72	SL-3	< 0.00117 U	0.00061 J		0.00206	0.00063 J	< 0.00124 U	< 0.00131 U		0.00136 J	< 0.00158 U	
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3	< 0.00234 U	< 0.00253 U		< 0.00322 U	< 0.00239 U	< 0.00249 U	< 0.00262 U	-	< 0.00349 U	< 0.00316 U	
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3	< 0.00117 U	0.00071 J		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U	-	< 0.00174 U	< 0.00158 U	
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1	< 0.00234 U	< 0.00253 U		< 0.00322 U	< 0.00239 U	< 0.00249 U	< 0.00262 U		< 0.00349 U	< 0.00316 U	
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1	< 0.00584 UJ	< 0.00633 U		< 0.00804 U	< 0.00598 U	< 0.00621 U	< 0.00654 U		< 0.00872 U	< 0.00789 U	
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3	< 0.00117 U	< 0.00127 U		< 0.00161 U	< 0.0012 U	< 0.00124 U	< 0.00131 U		< 0.00174 U	< 0.00158 U	
Conventionals															
Total Organic Carbon	TOC	%			1.3	0.95		0.74	0.56	0.1	0.21		< 0.02 U	0.22	
Total Solids	TS	%			91	91.51		90.41	88.92	85.5	90.25		79.38	90.93	

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Direct Contact Unrestricted

Protect Surface Water via Ground Water Vadose Zone Protect Sediment via Erosion

Site-Specific TEE Unrestricted

Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	MW-09 03/09/2021 MW-9-0-1 0 - 1 ft	MW-09 03/09/2021 MW-9-5-6 5 - 6 ft	MW-10 03/08/2021 MW-10-0-1 0 - 1 ft	MW-11 03/08/2021 MW-11-0-1 0 - 1 ft	MW-11 03/08/2021 MW-11-3-5 3 - 5 ft	MW-12 03/03/2021 MW-12-0-1 0 - 1 ft	MW-12 03/03/2021 MW-12-3-5 3 - 5 ft	MW-13 03/01/2021 MW-13-0-1 0 - 1 ft	MW-13 03/01/2021 MW-13-3-5 3 - 5 ft	MW-14 03/10/2021 MW-14A-0-1 0 - 1 ft	MW-14 03/01/2021 MW-14-4.5-5 4.5 - 5 ft
			SPM_RI_VADOSE-												
			SOILS_SLS	Screening Level											
Analyte	CAS RN	Unit	2022.02	Source											
m,p-Xylenes	179601-23-1	mg/kg			< 0.00235 U	< 0.00218 U	< 0.00207 U	< 0.00221 U		< 0.0019 U	< 0.00186 U	< 0.00261 U	< 0.0027 U	< 0.00186 U	< 0.00293 U
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Methylene Chloride	75-09-2	mg/kg	0.435	SL-3	< 0.00587 U	< 0.00544 U	< 0.00517 U	< 0.00552 U		< 0.00474 U	< 0.00466 U	0.00789	0.14 J	< 0.00465 U	< 0.00732 U
Methyliodide	74-88-4	mg/kg			< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
o-Xylene	95-47-6	mg/kg			< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
p-Isopropyltoluene	99-87-6	mg/kg			< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Styrene	100-42-5	mg/kg	300	SL-9	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3	0.00111 J	0.0163	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	0.878	0.252 J	< 0.00093 U	< 0.00146 U
Toluene	108-88-3	mg/kg	0.72	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		0.00034 J	0.00062 J	< 0.0013 U	0.00048 J	< 0.00093 U	< 0.00146 U
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3	< 0.00235 U	< 0.00218 U	< 0.00207 U	< 0.00221 U		< 0.0019 U	< 0.00186 U	< 0.00261 U	< 0.0027 U	< 0.00186 U	< 0.00293 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3	< 0.00117 U	0.00209	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	0.00471	0.00273	< 0.00093 U	< 0.00146 U
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1	< 0.00235 U	< 0.00218 U	< 0.00207 U	< 0.00221 U		< 0.0019 U	< 0.00186 U	< 0.00261 U	< 0.0027 U	< 0.00186 U	< 0.00293 U
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1	< 0.00587 U	< 0.00544 U	< 0.00517 U	< 0.00552 U	-	< 0.00474 U	< 0.00466 U	< 0.00652 U	< 0.00675 U	< 0.00465 U	< 0.00732 U
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3	< 0.00117 U	< 0.00109 U	< 0.00103 U	< 0.0011 U		< 0.00095 U	< 0.00093 U	< 0.0013 U	< 0.00135 U	< 0.00093 U	< 0.00146 U
Conventionals															
Total Organic Carbon	TOC	%			< 0.02 U	0.22	0.24	1.23		0.19	0.71	< 0.02 U	< 0.02 U	0.26	< 0.07 U
Total Solids	TS	%			94.68	76.43	87.69	92.3		91.32	80.08	92.13	92.88	86.25	92.01

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH

LPAH = low molecular weight PAH TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Direct Contact Unrestricted

Protect Surface Water via Ground Water Vadose Zone Protect Sediment via Erosion

Site-Specific TEE Unrestricted

Project No. 190293 , South Park Marina, Seattle, Washington

			Lopu pi vapose i	Location Date Sample Depth	MW-15 03/03/2021 MW-15-0-1 0 - 1 ft	MW-15 03/03/2021 MW-15-3-5 3 - 5 ft	SB-02 10/01/2007 SB-02-1 1 - 3 ft	SB-11 09/28/2007 SB-11-2.5 2 - 4 ft	SB-12 09/28/2007 SB-12-1.5 2 - 4 ft	SB-13 10/01/2007 SB-13-1 1 - 3 ft	SB-13 10/01/2007 SB-13-3.5 4 - 6 ft	SB-14 10/01/2007 SB-14-3 3 - 5 ft	SB-15 10/01/2007 SB-15-3.5 4 - 6 ft	SB-16 10/01/2007 SB-16-3.5 4 - 6 ft	SB-18 07/27/2011 SB18-5.0-072711 5 - 5 ft
			SPM_RI_VADOSE- SOILS SLS	Screening Level											
Analyte	CAS RN	Unit	2022.02	Source											
m.p-Xvlenes	179601-23-1	ma/ka		000100	< 0.00308 U	< 0.00441 U		21	0.0013				0.0046 J	44	
Methyl tert-butyl ether (MTBE)	1634-04-4	ma/ka	556	SL-1	< 0.00154 U	< 0.0022 U						_			
Methylene Chloride	75-09-2	ma/ka	0.435	SL-3	< 0.00769 U	0.00962 J		0.034	< 0.00044 U				< 0.00097 UJ	< 0.27 U	
Methyliodide	74-88-4	mg/kg			< 0.00154 U	< 0.0022 U		_	-			_	-	-	
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1	< 0.00154 U	< 0.0022 U		0.96	< 0.017 U			-	< 0.03 U	2	
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1	< 0.00154 U	< 0.0022 U		0.67	< 0.017 U		-	_	< 0.03 U	1.8	
o-Xylene	95-47-6	mg/kg			< 0.00154 U	< 0.0022 U		14	0.00049		-	_	0.0013 J	24	
p-Isopropyltoluene	99-87-6	mg/kg			< 0.00154 U	< 0.0022 U		1.2	< 0.017 U		-		0.039 J	2.6	
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1	< 0.00154 U	< 0.0022 U		0.54	< 0.017 U		-	_	< 0.03 U	1.2	
Styrene	100-42-5	mg/kg	300	SL-9	< 0.00154 U	< 0.0022 U		0.037	< 0.0041 U		1		< 0.0075 U	< 0.068 U	
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1	< 0.00154 U	< 0.0022 U		0.042	< 0.017 U				< 0.03 U	0.087	
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3	< 0.00154 U	< 0.0022 U		0.16	0.0015		1	-	0.00073 J	0.17	
Toluene	108-88-3	mg/kg	0.72	SL-3	< 0.00154 U	0.00071 J		4.1	0.0017				0.0023 J	7.2	
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3	< 0.00308 U	< 0.00441 U		-							
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3	< 0.00154 U	< 0.0022 U		0.21	< 0.0041 U		1	-	< 0.0075 U	0.098	
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3	< 0.00154 U	< 0.0022 U		< 0.071 U	< 0.0041 U				< 0.0075 U	< 0.068 U	
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3	< 0.00154 U	< 0.0022 U		0.17	0.0005		-		< 0.0075 U	0.15	
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1	< 0.00308 U	< 0.00441 U		< 0.071 U	< 0.0041 U		1	-	< 0.0075 U	< 0.068 U	
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1	< 0.00769 U	< 0.011 U		-	-						
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3	< 0.00154 U	< 0.0022 U		0.09	0.0014				0.0027 J	0.87	
Conventionals		·	·	•		•	·		·	·	·		·		
Total Organic Carbon	TOC	%			0.15	< 0.02 U		-							
Total Solids	TS	%			91.68	92.42	94.8	84	89.3	95.5	94.9	90.5	75.1	82.2	

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

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cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Protect Surface Water via Ground Water Vadose Zone

Direct Contact Unrestricted

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Protect Sediment via Erosion

Site-Specific TEE Unrestricted

Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-20 07/27/2011 SB20-4.0-072711 4 - 4 ft	SB-23 07/28/2011 SB23-1.0-072811 1 - 1 ft	SB-26 03/04/2021 SB-26-0-1 0 - 1 ft	SB-26 03/03/2021 SB-26-4-5 4 - 5 ft	SB-27 03/09/2021 SB-27-0-1 0 - 1 ft	SB-27 03/09/2021 SB-27-3-5 3 - 5 ft	SB-28 03/01/2021 SB-28-0-1 0 - 1 ft	SB-28 03/01/2021 SB-28-3-5 3 - 5 ft	SB-29 03/01/2021 SB-29-0-1 0 - 1 ft	SB-29 03/01/2021 SB-29A-3-5 3 - 5 ft
			SPM_RI_VADOSE-											
			SOILS_SLS	Screening Level										
Analyte	CAS_RN	Unit	2022.02	Source										
m,p-Xylenes	179601-23-1	mg/kg			-		< 0.00209 UJ		< 0.00266 U	-	< 0.00199 UJ		< 0.00232 U	< 0.00243 U
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1	-		< 0.00105 UJ		< 0.00133 U	-	< 0.001 UJ		< 0.00116 U	< 0.00122 U
Methylene Chloride	75-09-2	mg/kg	0.435	SL-3	_		< 0.00524 UJ		< 0.00665 U		< 0.00499 UJ		0.0153	0.0264
Methyliodide	74-88-4	mg/kg			_		< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1	-		< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1			< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
o-Xylene	95-47-6	mg/kg					< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
p-Isopropyltoluene	99-87-6	mg/kg					< 0.00105 UJ		< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1			< 0.00105 UJ	_	< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
Styrene	100-42-5	mg/kg	300	SL-9			< 0.00105 UJ	_	< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1			< 0.00105 UJ	-	< 0.00133 U		< 0.001 UJ		< 0.00116 U	< 0.00122 U
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3			0.0213 J	-	< 0.00133 U	-	0.00085 J		0.00049 J	< 0.00122 U
Toluene	108-88-3	mg/kg	0.72	SL-3			< 0.00105 UJ		< 0.00133 U	-	< 0.001 UJ		0.00035 J	< 0.00122 U
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3			< 0.00209 UJ		< 0.00266 U	-	< 0.00199 UJ		< 0.00232 U	< 0.00243 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3	-		< 0.00105 UJ	-	< 0.00133 U	-	< 0.001 UJ		< 0.00116 U	< 0.00122 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3			< 0.00105 UJ		< 0.00133 U	-	< 0.001 UJ		< 0.00116 U	< 0.00122 U
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3			0.0005 J		< 0.00133 U	-	< 0.001 UJ		< 0.00116 U	< 0.00122 U
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1			< 0.00209 UJ		< 0.00266 U	-	< 0.00199 UJ		< 0.00232 U	< 0.00243 U
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1			< 0.00524 UJ		< 0.00665 U	-	< 0.00499 UJ		< 0.0058 U	< 0.00609 U
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3			< 0.00105 UJ		< 0.00133 U	-	< 0.001 UJ		< 0.00116 U	< 0.00122 U
Conventionals								•						
Total Organic Carbon	TOC	%			-		2.98		0.34	-	0.75		0.25	0.43
Total Solids	TS	%					87.43		93.81		89.79		93.03	76.22

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH

LPAH = low molecular weight PAH TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Protect Surface Water via Ground Water Vadose Zone

Protect Sediment via Erosion

Direct Contact Unrestricted

Site-Specific TEE Unrestricted

Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-30 03/01/2021 SB-30-0-1 0 - 1 ft	SB-30 03/01/2021 SB-30A-3-5 3 - 5 ft	SB-31 03/01/2021 SB-31-0-1 0 - 1 ft	SB-31 03/01/2021 SB-31A-3-5 3 - 5 ft	SB-32 03/08/2021 SB-32-0-1 0 - 1 ft	SB-32 03/08/2021 SB-32-4-5 4 - 5 ft	SB-33 03/03/2021 SB-33-0-1 0 - 1 ft	SB-33 03/03/2021 SB-33-3-5 3 - 5 ft	SB-34 03/01/2021 SB-34-0-1 0 - 1 ft	SB-34 03/23/2021 SB-34R-0-1 0 - 1 ft	SB-34 03/01/2021 SB-34-3-4 3 - 4 ft
			SPM_RI_VADOSE-												
			SOILS_SLS	Screening Level											
Analyte	CAS RN	Unit	2022.02	Source											
m,p-Xylenes	179601-23-1	mg/kg			< 0.00204 U	< 0.00222 U	< 0.00263 U	< 0.00294 U	< 0.00343 U	< 0.00285 U	< 0.002 U	< 0.00305 U	0.00088 J	0.00105 J	< 0.00217 UJ
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ		< 0.00108 UJ
Methylene Chloride	75-09-2	mg/kg	0.435	SL-3	< 0.00511 U	< 0.00556 U	< 0.00658 U	0.00682 J	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U	< 0.0068 UJ		
Methyliodide	74-88-4	mg/kg			< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	0.00165	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
o-Xylene	95-47-6	mg/kg			< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
p-Isopropyltoluene	99-87-6	mg/kg			< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Styrene	100-42-5	mg/kg	300	SL-9	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3	0.0181	0.187	0.0547	0.0415	< 0.00172 U	< 0.00143 U	0.00257	0.00208	0.00086 J	0.0015	< 0.00108 UJ
Toluene	108-88-3	mg/kg	0.72	SL-3	< 0.00102 U	< 0.00111 U	0.0004 J	< 0.00147 U	0.0007 J	< 0.00143 U	0.00049 J	< 0.00152 U	0.00274 J	0.00272	< 0.00108 UJ
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3	< 0.00204 U	< 0.00222 U	< 0.00263 U	< 0.00294 U	< 0.00343 U	< 0.00285 U	< 0.002 U	< 0.00305 U	< 0.00272 UJ	0.00105 J	< 0.00217 UJ
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3	< 0.00102 U	0.00069 J	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	0.00125	0.00135 J	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1	< 0.00204 U	< 0.00222 U	< 0.00263 U	< 0.00294 U	< 0.00343 U	< 0.00285 U	< 0.002 U	< 0.00305 U	< 0.00272 UJ	< 0.002 U	< 0.00217 UJ
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1	< 0.00511 U	< 0.00556 U	< 0.00658 U	< 0.00736 U	< 0.00858 U	< 0.00714 U	< 0.005 U	< 0.00762 U	< 0.0068 UJ	< 0.005 U	< 0.00542 UJ
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3	< 0.00102 U	< 0.00111 U	< 0.00132 U	< 0.00147 U	< 0.00172 U	< 0.00143 U	< 0.001 U	< 0.00152 U	< 0.00136 UJ	< 0.001 U	< 0.00108 UJ
Conventionals															
Total Organic Carbon	TOC	%			0.26	0.58	0.1	0.19	1.08 J	0.22	0.09	0.07	0.14	-	< 0.04 U
Total Solids	TS	%			81.8	89.13	93.65	86.58	86.47	82.29	91.97	79.58	90.06	_	90.26

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

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cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Protect Surface Water via Ground Water Vadose Zone

Direct Contact Unrestricted

Protect Sediment via Erosion

Site-Specific TEE Unrestricted

Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-34R-3-4	SS-01 02/09/2016 SPM-SS-01-02092016 0 - 1.6 ft	SS-02 02/09/2016 SPM-SS-02-02092016 0 - 1.6 ft	SS-03 02/09/2016 SPM-SS-03-02092016 0 - 1.6 ft	SS-04 02/10/2016 SPM-SS-04-02102016 0 - 1.6 ft	SS-05 02/10/2016 SPM-SS-05-02102016 0 - 1.6 ft	SS-06 02/10/2016 SPM-SS-06-02102016 0 - 1.6 ft
			SPM_RI_VADOSE-								
A b. A.	040 511	11-9	SOILS_SLS	Screening Level							
Analyte	CAS_RN	Unit	2022.02	Source							
m,p-Xylenes	179601-23-1	mg/kg	===	a	< 0.00209 U			-			-
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1	< 0.00104 U			-			-
Methylene Chloride	75-09-2	mg/kg	0.435	SL-3	< 0.00522 U			-			
Methyliodide	74-88-4	mg/kg			< 0.00104 U			-			
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1	< 0.00104 U						
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1	< 0.00104 U	-					
o-Xylene	95-47-6	mg/kg			< 0.00104 U	-					
p-Isopropyltoluene	99-87-6	mg/kg			< 0.00104 U			-			
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1	< 0.00104 U			-			_
Styrene	100-42-5	mg/kg	300	SL-9	< 0.00104 U			-			_
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1	< 0.00104 U						_
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3	< 0.00104 U						
Toluene	108-88-3	mg/kg	0.72	SL-3	< 0.00104 U						
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3	< 0.00209 U						
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3	< 0.00104 U						
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3	< 0.00104 U	-		-			
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3	< 0.00104 U						
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1	< 0.00209 U	-		-			-
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1	< 0.00522 U	-		-			
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3	< 0.00104 U	-	-	-			-
Conventionals											
Total Organic Carbon	TOC	%			-	0.205	0.349	0.526	0.56	0.496	0.276
Total Solids	TS	%				-		-			-

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Direct Contact Unrestricted Protect Surface Water via Ground Water Vadose Zone

Protect Sediment via Erosion

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Site-Specific TEE Unrestricted

Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample Depth	SS-07 02/09/2016 SPM-SS-07-02092016 0 - 1.6 ft	SS-08 02/09/2016 SPM-SS-08-02092016 0 - 1.6 ft	SS-09 02/10/2016 SPM-SS-09-02102016 0 - 1.6 ft	SS-10 02/10/2016 SPM-SS-10-02102016 0 - 1.6 ft	SS-11 02/10/2016 SPM-SS-11-02102016 0 - 1.6 ft	SS-12 02/09/2016 SPM-SS-12-02092016 0 - 1.6 ft
			SPM_RI_VADOSE-	0						
	0.00 0.00		SOILS_SLS	Screening Level						
Analyte	CAS RN	Unit	2022.02	Source						
m,p-Xylenes	179601-23-1	mg/kg								-
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1						-
Methylene Chloride	75-09-2	mg/kg	0.435	SL-3				-	-	-
Methyliodide	74-88-4	mg/kg							-	-
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1		-		-		-
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1						-
o-Xylene	95-47-6	mg/kg								-
p-Isopropyltoluene	99-87-6	mg/kg								-
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1						_
Styrene	100-42-5	mg/kg	300	SL-9						_
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1					-	-
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3					-	_
Toluene	108-88-3	mg/kg	0.72	SL-3				_	-	_
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3				-	-	-
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3						
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3		-		_		-
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3		-		_		-
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1		-				-
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1				-	-	-
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3	-	-				-
Conventionals										
Total Organic Carbon	TOC	%			0.218	0.37	0.366	0.0643	0.337	1.06
Total Solids	TS	%						_	-	-

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Direct Contact Unrestricted

Protect Surface Water via Ground Water Vadose Zone Protect Sediment via Erosion

Site-Specific TEE Unrestricted

Project No. 190293 , South Park Marina, Seattle, Washington

			ISPM RI VADOSE-	Location Date Sample Depth	SS-13 02/10/2016 SPM-SS-13-02102016 0 - 1.6 ft	SS-14 02/10/2016 SPM-SS-14-02102016 0 - 1.6 ft	SS-15 02/09/2016 SPM-SS-15-02102016 0 - 1.6 ft	SS-16 02/09/2016 SPM-SS-16-02092016 0 - 1.6 ft	SS-17 02/10/2016 SPM-SS-17-02102016 0 - 1.6 ft	SS-18 02/10/2016 SPM-SS-18-02102016 0 - 1.6 ft
				0						
A b. A.	040 PN	11.34	SOILS_SLS	Screening Level						
Analyte	CAS RN	Unit	2022.02	Source						
m,p-Xylenes	179601-23-1	mg/kg			-	-				-
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1	-	-				-
Methylene Chloride	75-09-2	mg/kg	0.435	SL-3		-				-
Methyliodide	74-88-4	mg/kg				-				-
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1		-			-	-
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1						-
o-Xylene	95-47-6	mg/kg								-
p-Isopropyltoluene	99-87-6	mg/kg			-	_			-	_
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1	1	_			-	_
Styrene	100-42-5	mg/kg	300	SL-9	1	_			-	_
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1		_			-	-
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3		-				
Toluene	108-88-3	mg/kg	0.72	SL-3						_
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3						_
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3						-
trans-1,3-Dichloropropene	10061-02-6	ma/ka	0.00627	SL-3						
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3						_
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1	-					-
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1		-			-	-
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3		-			-	-
Conventionals						•	•	•	•	•
Total Organic Carbon	TOC	%			0.217	0.107	0.701	0.514	0.0516	1.45
Total Solids	TS	%				_			-	-

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Direct Contact Unrestricted Protect Surface Water via Ground Water Vadose Zone

Protect Sediment via Erosion

Site-Specific TEE Unrestricted

Natural Background SL-10

Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date	SS-19 02/10/2016	SS-20 02/10/2016	SS-21 02/08/2016	SS-22 02/08/2016	SS-23 02/08/2016	SS-24 02/10/2016
				Sample	SPM-SS-19-02102016	SPM-SS-20-02102016	SPM-SS-21-02082016	SPM-SS-22-02082016	SPM-SS-23-02082016	SPM-SS-24-02102016
				Depth	0 - 1.6 ft					
			SPM_RI_VADOSE- SOILS SLS	Screening Level						
Analyte	CAS RN	Unit	2022.02	Source						
m.p-Xvlenes	179601-23-1	ma/ka								
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1		-		-	-	
Methylene Chloride	75-09-2	mg/kg	0.435	SL-3		-		-	-	
Methyliodide	74-88-4	mg/kg				-		-	-	
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1	-					-
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1						
o-Xylene	95-47-6	mg/kg				_		_	-	_
p-Isopropyltoluene	99-87-6	mg/kg				-		-	-	-
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1	_					-
Styrene	100-42-5	mg/kg	300	SL-9		_		_	-	_
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1		-		-	-	-
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3		_		_	-	
Toluene	108-88-3	mg/kg	0.72	SL-3		-		-	-	
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3		-		-	-	-
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3		_		_	-	
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3		-		-	-	
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3		_		_	-	
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1		_		_	-	
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1		-		-	-	
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3		-		-	-	-
Conventionals	·	·								
Total Organic Carbon	TOC	%			0.246	0.128	1.14	0.507	0.46	0.446
Total Solids	TS	%	1							

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Direct Contact Unrestricted

Protect Surface Water via Ground Water Vadose Zone Protect Sediment via Erosion

Site-Specific TEE Unrestricted

Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	SS-25 02/08/2016 SPM-SS-25-02082016	SS-26 02/08/2016 SPM-SS-26-02082016	SS-27 02/08/2016 SPM-SS-27-02082016	SS-28 02/11/2016 SPM-SS-28-02112016	SS-29 02/11/2016	SS-30 02/11/2016 SPM-SS-30-02112016	SS-31 11/17/2017
				Depth	0 - 1.6 ft	0 - 1.6 ft	0 - 1.6 ft	0 - 1.5 ft			
	ı		SPM RI VADOSE-		0 - 1.010	0 - 1.010	0 - 1.0 10	0 - 1.010	0 - 1.010	0 - 1.011	0 - 1.5 11
			SOILS SLS	Screening Level							
Analyte	CAS RN	Unit	2022.02	Source							
m.p-Xvlenes	179601-23-1	ma/ka	LOZZE.OZ	Courco		_		_			
Methyl tert-butyl ether (MTBE)	1634-04-4	ma/ka	556	SL-1							_
Methylene Chloride	75-09-2	mg/kg	0.435	SL-3		_		_			
Methyliodide	74-88-4	ma/ka								-	
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1		-		-		-	
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1		-		-		-	
o-Xylene	95-47-6	mg/kg				_		_		_	-
p-Isopropyltoluene	99-87-6	mg/kg									
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1		_		_		_	
Styrene	100-42-5	mg/kg	300	SL-9		_		_	-		
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1							
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3			-		-	-	-
Toluene	108-88-3	mg/kg	0.72	SL-3						_	
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3		-		-		-	-
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3		-		-			
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3		-		-		-	-
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3							
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1		-		-	-	-	
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1							
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3		-		-		-	
Conventionals		•	•	·							
Total Organic Carbon	TOC	%			0.573	0.13	0.252	0.618	1.18	0.927	-
Total Solids	TS	%	1	I							

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

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ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Direct Contact Unrestricted

Protect Surface Water via Ground Water Vadose Zone Protect Sediment via Erosion

Site-Specific TEE Unrestricted

Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date	SS-32 11/17/2017	SS-33 11/17/2017	SS-34 11/17/2017	SS-35 11/17/2017	SS-36 11/17/2017	SS-37 11/17/2017	SS-38 11/17/2017	SS-39 11/17/2017	T117 A10 01/17/2006	T117 A11 01/24/2006
							SS-34-0-1.5			SS-37-0-1.5		SS-39-0-1.25	T117-A10-SB-01	T117-A11-SB-0.0-0.5
				Depth	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft		0 - 1.5 ft	0 - 1.5 ft	0 - 1 ft	0 - 1.25 ft	0 - 1.5 ft	0 - 0.5 ft
			SPM RI VADOSE-											
			SOILS SLS	Screening Level										
Analyte	CAS RN	Unit	2022.02	Source										
m.p-Xvlenes	179601-23-1	ma/ka												
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1	-						_		-	-
Methylene Chloride	75-09-2	mg/kg	0.435	SL-3	_				-		_			
Methyliodide	74-88-4	mg/kg			_				-		_			
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1	_			-	-	-	-			-
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1	_				-	-	_	-		
o-Xylene	95-47-6	mg/kg			-		-	-	_	_	-	-	-	-
p-Isopropyltoluene	99-87-6	mg/kg			-		-		-	_	-	-	1	-
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1	1		-		-				1	1
Styrene	100-42-5	mg/kg	300	SL-9	-					-	-		-	-
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1					-		-		-	-
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3	1				-		-		-	-
Toluene	108-88-3	mg/kg	0.72	SL-3	-					-	-		-	
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3	_				-		-			-
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3					-		_			-
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3	-				-		-			
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3					-		_			-
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1					-		_			-
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1	-				-		-			
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3							-			
Conventionals														
Total Organic Carbon	TOC	%	1										0.945	0.721
Total Solids	TS	%											85.5	89.2

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

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UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Protect Surface Water via Ground Water Vadose Zone

Direct Contact Unrestricted

Protect Sediment via Erosion

Site-Specific TEE Unrestricted

Project No. 190293 , South Park Marina, Seattle, Washington

				Location Date Sample	T117 A12 01/24/2006 T117-A12-SB-0.0-0.5	T117 A12 01/24/2006 T117-A12-SB-0.5-1.5
				Depth	0 - 0.5 ft	0.5 - 1.5 ft
			SPM_RI_VADOSE-			
			SOILS_SLS	Screening Level		
Analyte	CAS_RN	Unit	2022.02	Source		
m,p-Xylenes	179601-23-1	mg/kg			-	
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1	-	
Methylene Chloride	75-09-2	mg/kg	0.435	SL-3	_	
Methyliodide	74-88-4	mg/kg			-	-
n-Butylbenzene	104-51-8	mg/kg	4000	SL-1	-	
n-Propylbenzene	103-65-1	mg/kg	8000	SL-1	_	
o-Xylene	95-47-6	mg/kg			-	-
p-Isopropyltoluene	99-87-6	mg/kg			-	
sec-Butylbenzene	135-98-8	mg/kg	8000	SL-1	_	-
Styrene	100-42-5	mg/kg	300	SL-9	-	-
tert-Butylbenzene	98-06-6	mg/kg	8000	SL-1	-	
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0289	SL-3	-	
Toluene	108-88-3	mg/kg	0.72	SL-3	_	
Total Xylenes	1330-20-7	mg/kg	0.944	SL-3	-	
trans-1,2-Dichloroethene	156-60-5	mg/kg	5.17	SL-3	-	
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.00627	SL-3	_	
Trichloroethene (TCE)	79-01-6	mg/kg	0.0044	SL-3	-	
Trichlorofluoromethane	75-69-4	mg/kg	24000	SL-1	-	
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1	_	
Vinyl Chloride	75-01-4	mg/kg	0.00106	SL-3	-	
Conventionals						
Total Organic Carbon	TOC	%			1.25	
Total Solids	TS	%			84.8	87.28

Vadose zone is considered from ground surface to 6 feet below ground surface (bgs). Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

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cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Direct Contact Unrestricted

Protect Surface Water via Ground Water Vadose Zone Protect Sediment via Erosion

Screening Level Codes: SL-1 SL-3 SL-8 SL-9 Site-Specific TEE Unrestricted

				Location Date Sample Depth	B-01 11/17/2017 B-01-8.5-9.5 8.5 - 9.5 ft	B-02 11/17/2017 B-02-6.5-7 6.5 - 7 ft	B-03 11/17/2017 B-03-6.5-7 6.5 - 7 ft	B-04 11/17/2017 B-04-6.5-7 6.5 - 7 ft	MW-04 03/04/2021 MW-4-7-8 7 - 8 ft	MW-04 03/04/2021 MW-4-10.5-11.5 10.5 - 11.5 ft	MW-04 03/04/2021 MW-4-13.5-14.5 13.5 - 14.5 ft
Analyte	CAS_RN	Unit	SPM_RI_SATURAT ED-SOIL_SLS _2022.02	Screening Level Source							
Metals							•	•	•		
Arsenic	7440-38-2	mg/kg	7.3	SL-10	-				1.88	29.3	2.92
Barium	7440-39-3	mg/kg	8.26 0.77	SL-6	-	-			 0.08 J	0.07 J	0.7
Cadmium Chromium	7440-43-9 7440-47-3	mg/kg mg/kg	48.2	SL-10 SL-10	-				21.6	9.92	35.5
Copper	7440-50-8	mg/kg	36.4	SL-10		-			9.18	20.7	37.9
Lead	7439-92-1	mg/kg	50	SL-10		-			9.7 J	3.18 J	166 J
Mercury	7439-97-6	mg/kg	0.07	SL-10		_			0.0141 J	0.0234 J	0.422
Nickel	7440-02-0	mg/kg	48	SL-10		-			9.59	8.51	12.3
Selenium	7782-49-2	mg/kg	0.3	SL-9	-	-					
Silver	7440-22-4	mg/kg	0.0163	SL-6		-	-			-	
Zinc	7440-66-6	mg/kg	85.1	SL-10		-			30.4	25.5	94.8
Butyl Tin Ions			1					1	1		
Dibutyltin Ion	14488-53-0	mg/kg	 			-					
Monobutyltin Tetrabutyltin	78763-54-9 1461-25-2	mg/kg ma/ka	1			-	-				
Tributyltin Ion	1461-25-2 36643-28-4	mg/kg mg/kg	0.000111	SL-7							
Polychlorinated Biphenyl Aroclors	JUU4J-20-4	mg/kg	0.000111	GL-1							
Aroclor 1016	12674-11-2	mg/kg			< 0.064 U	< 6.3 U	< 1.3 U	< 1.2 U	< 0.231 U	< 0.004 U	< 0.255 U
Aroclor 1221	11104-28-2	mg/kg			< 0.064 U	< 6.3 U	< 1.3 U	< 1.2 U	< 0.231 U	< 0.004 U	< 0.255 U
Aroclor 1232	11141-16-5	mg/kg			< 0.064 U	< 6.3 U	< 1.3 U	< 1.2 U	< 0.231 U	< 0.004 U	< 0.255 U
Aroclor 1242	53469-21-9	mg/kg			< 0.064 U	15	3.6	2.3	< 0.231 U	< 0.004 U	< 0.255 U
Aroclor 1248	12672-29-6	mg/kg			< 0.064 U	< 6.3 U	< 1.3 U	< 1.2 U	9.52	0.0512	< 0.255 U
Aroclor 1254	11097-69-1	mg/kg			< 0.064 U	93 J	7	6	10.4	0.0787	3.91
Aroclor 1260	11096-82-5	mg/kg			< 0.064 U	23	3	2.4	6.45	0.0409	1.87
Aroclor 1262	37324-23-5	mg/kg				-			< 0.231 U	< 0.004 U	< 0.255 U
Aroclor 1268	11100-14-4	mg/kg	5 405 07	01.0					< 0.231 U	< 0.004 U	< 0.255 U
Total PCB Aroclors (ND=1/2 RL) Total PCBs (Sum of Aroclors)	T-PCBs1/2U T-PCBs	mg/kg	5.49E-07 5.49E-07	SL-6 SL-6	< 0.064 U < 0.064 U	144 J 131	16.2 13.6	13.1 10.7	27.1 26.4	0.183 0.171	6.67 5.78
Polychlorinated Biphenyl Congeners	1-PCBS	mg/kg	5.49E-07	SL-0	< 0.004 U	131	13.0	10.7	20.4	0.171	5.70
Total PCB Congeners	T-PCBCong	mg/kg	5.49E-07	SL-6		99.1			22.1		
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	3.47E-10	SL-6		0.00270 J	_		0.000499		
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	3.47E-10	SL-6	-	0.00270 J			0.000514		
Dioxins/Furans											
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9							
Total CDF TEQ (ND = 1/2 RDL)		mgmg				-	_		0.000704 J		
	CDF TEQ-1/2U	mg/kg	2E-06	SL-9					0.000299 J		
Total Dioxin/Furan TEQ (ND = 0)	CDF TEQ-1/2U DF-TEQ-0U	mg/kg mg/kg	2E-06 5.2E-06	SL-9 SL-10					0.000299 J 0.00100 J		
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9		-			0.000299 J		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06	SL-9 SL-10 SL-10	 				0.000299 J 0.00100 J 0.00100 J		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0	mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26	SL-9 SL-10 SL-10 SL-7		 			0.000299 J 0.00100 J 0.00100 J 0.0836 J	 0.00784	 0.0122
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6	mg/kg mg/kq mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388	SL-9 SL-10 SL-10 SL-7 SL-7		 			0.000299 J 0.00100 J 0.00100 J 0.0836 J 0.102 J	 0.00784 0.0151	 0.0122 0.0216
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7		 			0.000299 J 0.00100 J 0.00100 J 0.0836 J 0.102 J 0.411	 0.00784 0.0151 0.0101	 0.0122 0.0216 0.0876
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6	mg/kg mg/kq mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388	SL-9 SL-10 SL-10 SL-7 SL-7					0.000299 J 0.00100 J 0.00100 J 0.0836 J 0.102 J	 0.00784 0.0151	 0.0122 0.0216
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8	mg/kg ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-7 SL-8	 				0.000299 J 0.00100 J 0.00100 J 0.0836 J 0.102 J 0.411 0.0583	0.00784 0.0151 0.0101 0.00259 J	0.0122 0.0216 0.0876 0.0374
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Anthracene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7					0.000299 J 0.00100 J 0.00100 J 0.0836 J 0.102 J 0.411 0.0583 0.904		 0.0122 0.0216 0.0876 0.0374 0.284
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8					0.000299 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Filuoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8					0.000299 J 0.00100 J 0.00100 J 0.0836 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(q,h.i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8	mg/kg ma/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8					0.000299 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 0.0583 0.904 0.0756 0.6861 0.696 < 0.0497 U < 0.0497 U		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g, h,i)perylene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8					0.000299 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 < 0.0497 U 0.0517		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Pyrene Benz(a)anthracene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7					0.000299 J 0.00100 J 0.00100 J 0.00100 J 0.0836 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 0.0497 U < 0.0497 U 0.517 0.179		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Pyrene Benzo(a)anthracene Benzo(a)pyrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	mg/kg ma/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8					0.000299 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 < 0.0497 U 0.517 0.179 0.108		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methy/naphthalene 2-Methy/naphthalene Acenaphthene Acenaphthylene Acenaphthylene Anthracene Benzo(a, h,i)perylene Fluoranthene Fluoranthene Naphthalene Naphthalene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7					0.000299 J 0.00100 J 0.00100 J 0.00100 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 < 0.0497 U < 0.0497 U 0.517 0.179 0.108		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(a, h.j)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(a)pyrene Benzo(b)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	mg/kg ma/kg ma/kg mg/kg	2E-06 5.2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7					0.000299 J 0.00100 J 0.00100 J 0.0836 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 0.0497 U < 0.0497 U < 1.0497 U 0.179 0.108 0.108 0.109 0.0569		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz- k-fluor	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7					0.000299 J 0.00100 J 0.00100 J 0.00100 J 0.102 J 0.411 0.0583 0.904 0.0756 0.881 0.696 < 0.0497 U 0.179 0.179 0.108 0.108 0.108		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(a, h.i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7					0.000299 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 < 0.0497 U < 0.0497 U 0.517 0.179 0.108 0.106 0.0569 0.0545		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)anthracene Benzo(a)anthracene Benzo(a)fluoranthene Benzo(j,kfluoranthene Benzo(j,kfluoranthene Benzo(k)ffluoranthene Benzo(k)ffluoranthene Benzo(k)ffluoranthene Benzo(k)ffluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz- k-fluor 207-08-9 218-01-9	mg/kg ma/kg mg/kg	2E-06 5.2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7					0.000299 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 0.681 0.0497 U 0.517 0.179 0.108 0.106 0.0569 0.0545 0.0545		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Naphthalene Naphthalene Phenanthrene Phenanthrene Benzo(a)anthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7					0.000299 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 < 0.0497 U < 0.0497 U 0.517 0.179 0.108 0.106 0.0569 0.0545		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Pyrene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA	mg/kg ma/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-8					0.000299 J 0.00100 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 <0.0497 U 0.517 0.179 0.108 0.106 0.0569 0.0545 0.282 0.0195 J 0.0595 0.208		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(j)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH	mg/kg ma/kg ma/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-8 SL-8					0.000299 J 0.00100 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 J 0.0583 0.904 0.0756 0.681 0.696 < 0.0497 U 0.517 0.179 0.108 0.106 0.0563 0.0563 0.0497 U 0.517 0.179 0.108 0.106 0.0565 0.0545 0.0282 0.0195 J 0.0595 0.208		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Actenaphthylene Actenaphthylene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Pyrene Benzo(a) pyrene Benzo(a) pyrene Benzo(b) fluoranthene Benzo(j) fluoranthene Benzo(j) fluoranthene Benzo(j) korranthene Benzo(j) korranthene Benzo(j) korranthene Benzo(j) korranthene Benzo(j) korranthene Benzo(j) korranthene Total Benzofluoranthene Total Benzofluoranthene Total HPAHs Total LPAHs	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH T-LPAH	mg/kg ma/kg ma/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-8					0.000299 J 0.00100 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 0.681 0.097 0.179 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.1095 0.208 0.208 0.208 0.208		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthene Benzo(a,h.i)perylene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)fluoranthene Benzo(fluoranthene Benzo(fluoranthene Benzo(fluoranthene Benzo(fluoranthene Benzo(fluoranthene Benzo(fluoranthene Benzo(fluoranthene Total PAHS Total Benzo(luoranthenes Total HPAHS Total PAHS (ND=0)	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-89-2 205-82-3 Benz- k-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH T-PAH	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-8 SL-8 SL-8 SL-8					0.000299 J 0.00100 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 <0.0497 U 0.517 0.179 0.108 0.106 0.0569 0.0545 0.282 0.0195 J 0.0595 0.208 2.13 J 2.07 4.20 J		
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Actenaphthylene Actenaphthylene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Pyrene Benzo(a) pyrene Benzo(a) pyrene Benzo(b) fluoranthene Benzo(j) fluoranthene Benzo(j) fluoranthene Benzo(j) korranthene Benzo(j) korranthene Benzo(j) korranthene Benzo(j) korranthene Benzo(j) korranthene Benzo(j) korranthene Total Benzofluoranthene Total Benzofluoranthene Total HPAHs Total LPAHs	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH T-LPAH	mg/kg ma/kg ma/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-8 SL-8					0.000299 J 0.00100 J 0.00100 J 0.00100 J 0.0036 J 0.102 J 0.411 0.0583 0.904 0.0756 0.681 0.696 0.681 0.097 0.179 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.108 0.1095 0.208 0.208 0.208 0.208		

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	MW-04 03/04/2021 MW-4-18-20 18 - 20 ft	MW-05 03/05/2021 MW-5-6-7 6 - 7 ft	MW-05 03/05/2021 MW-5-8-9.5 8 - 9.5 ft	MW-05 03/05/2021 MW-5-15-16 15 - 16 ft	MW-05 03/05/2021 MW-5-20-22.5 20 - 22.5 ft	MW-05 03/05/2021 MW-5-26.5-28 26.5 - 28 ft	MW-06 03/05/2021 MW-6-9 9 ft
Analyte	CAS_RN	Unit	SPM_RI_SATURAT ED-SOIL_SLS _2022.02	Screening Level Source							
Metals							•		•		
Arsenic	7440-38-2	mg/kg	7.3	SL-10	1.7	1.4	1.12 J	1.75	1.43	5.29	1.33
Barium	7440-39-3	mg/kg	8.26 0.77	SL-6	0.05 J	3.74	0.26	0.17	 0.08 J	0.13	 < 0.13 U
Cadmium Chromium	7440-43-9 7440-47-3	mg/kg mg/kg	48.2	SL-10 SL-10	8.78	3.74 77.3	0.26 20.6 J	12.6	0.08 J 11.6	0.13 50	< 0.13 U 10.7
Copper	7440-47-3	mg/kg	36.4	SL-10	10.4	35	14.2	12.4	10.5	31	8.8
Lead	7439-92-1	mg/kg	50	SL-10	1.34	586 J	64.5 J	39.3	10.5	7.64	1.67
Mercury	7439-97-6	mg/kg	0.07	SL-10		0.211	0.045	0.0566		0.0432	
Nickel	7440-02-0	mg/kg	48	SL-10	7.66	8.5	8.52	7.49	8.37	58.4	6.06
Selenium	7782-49-2	mg/kg	0.3	SL-9			-	-	-		
Silver	7440-22-4	mg/kg	0.0163	SL-6		-		-		-	
Zinc	7440-66-6	mg/kg	85.1	SL-10	26.1	418	110 J	44.3	26.2	70.2	34.5
Butyl Tin Ions											
Dibutyltin Ion	14488-53-0	mg/kg	ļ		-	< 0.0572 U	< 0.0577 U	0.00308 J		0.0239	
Monobutyltin	78763-54-9	mg/kg	 			< 0.0404 U	< 0.0408 U	0.00188 J		0.0144	
Tetrabutyltin Tributyltin Ion	1461-25-2	mg/kg	0.000111	SL-7	-	< 0.0495 U < 0.0382 U	< 0.0499 U 0.00749 J	< 0.00496 U 0.00281 J		< 0.00496 U	
Polychlorinated Biphenyl Aroclors	36643-28-4	mg/kg	0.000111	SL-/		< 0.0382 0	0.00749 J	0.00281 J		0.026	
Aroclor 1016	12674-11-2	ma/ka	1		< 0.004 U	< 1.44 U	< 0.311 U	< 0.1 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	11104-28-2	mg/kg			< 0.004 U	< 1.44 U	< 0.311 U	< 0.1 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1221	11141-16-5	mg/kg			< 0.004 U	< 1.44 U	< 0.311 U	< 0.1 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1242	53469-21-9	mg/kg			< 0.004 U	< 1.44 U	< 0.311 U	< 0.1 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	12672-29-6	mg/kg			< 0.004 U	< 1.44 U	2.62 J	< 0.1 U	0.0424	< 0.004 U	0.0088 J
Aroclor 1254	11097-69-1	mg/kg			0.0043	18.9	3.87 J	0.72	0.14	0.0076	0.0318
Aroclor 1260	11096-82-5	mg/kg			0.0017 J	7	1.28	0.234	0.0504	0.0034 J	0.0145
Aroclor 1262	37324-23-5	mg/kg			< 0.004 U	< 1.44 U	< 0.311 U	< 0.1 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1268	11100-14-4	mg/kg			< 0.004 U	< 1.44 U	< 0.311 U	< 0.1 U	< 0.004 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	5.49E-07	SL-6	0.0200 J	30.9	8.70	1.30	0.245	0.0250 J	0.0671 J
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	5.49E-07	SL-6	0.00600 J	25.9	7.77	0.954	0.233	0.0110 J	0.0551 J
Polychlorinated Biphenyl Congeners Total PCB Congeners	T-PCBCong	ma at /ls at	5.49E-07	SL-6		36.9			ı		
Total PCB Congeners Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg mg/kg	3.47E-10	SL-6	-	0.00103					
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	3.47E-10	SL-6	-	0.00103					
Dioxins/Furans	1 05 120 1/20	mgmg	0.172 10	52.0		0.00101					
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9		-					
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9				-			
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U										
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-1EQ-00	mg/kg	5.2E-06	SL-10		-		-			
	DF-TEQ-00 DF-TEQ-1/2U	mg/kg mg/kg	5.2E-06 5.2E-06	SL-10 SL-10							
Polycyclic Aromatic Hydrocarbons	DF-TEQ-1/2U	mg/kg	5.2E-06	SL-10							
1-Methylnaphthalene	DF-TEQ-1/2U 90-12-0	mg/kg mg/kg	5.2E-06 2.26	SL-10 SL-7	 0.00107 J	1.05	 0.383 J	 0.0517	 0.00471 J	 < 0.00499 U	 0.00315 J
1-Methylnaphthalene 2-Methylnaphthalene	90-12-0 91-57-6	mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388	SL-10 SL-7 SL-7	0.00107 J 0.00142 J	 1.05 0.342	 0.383 J 0.511 J	0.0517 0.0554	 0.00471 J 0.00556	 < 0.00499 U < 0.00499 U	 0.00315 J 0.00608
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene	90-12-0 91-57-6 83-32-9	mg/kg mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277	SL-10 SL-7 SL-7 SL-7	0.00107 J 0.00142 J < 0.00498 U	1.05 0.342 0.298	 0.383 J 0.511 J 0.0768	0.0517 0.0554 0.0108	0.00471 J 0.00556 0.00175 J	 < 0.00499 U < 0.00499 U 0.0011 J	 0.00315 J 0.00608 < 0.00499 U
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene	90-12-0 91-57-6 83-32-9 208-96-8	mg/kg mg/kg mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3	SL-10 SL-7 SL-7 SL-7 SL-8	0.00107 J 0.00142 J < 0.00498 U < 0.00498 U	1.05 0.342 0.298 0.0672	0.383 J 0.511 J 0.0768 0.0256 J	0.0517 0.0554 0.0108 0.00404 J	0.00471 J 0.00556 0.00175 J < 0.00498 U	 	 0.00315 J 0.00608 < 0.00499 U < 0.00499 U
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene	90-12-0 91-57-6 83-32-9 208-96-8 120-12-7	mg/kg mg/kg mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7	 0.00107 J 0.00142 J < 0.00498 U < 0.00498 U < 0.00498 U	1.05 0.342 0.298 0.0672 0.797	0.383 J 0.511 J 0.0768 0.0256 J 0.14	0.0517 0.0554 0.0108 0.00404 J 0.0369	 0.00471 J 0.00556 0.00175 J < 0.00498 U 0.00467 J	 < 0.00499 U < 0.00499 U 0.0011 J < 0.00499 U 0.00092 J	 0.00315 J 0.00608 < 0.00499 U < 0.00499 U 0.00177 J
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acenaphthylene Anthracene Benzo(g,h,i)perylene	90-12-0 91-57-6 83-32-9 208-96-8	mg/kg mg/kg mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3	SL-10 SL-7 SL-7 SL-7 SL-8	0.00107 J 0.00142 J < 0.00498 U < 0.00498 U	1.05 0.342 0.298 0.0672	0.383 J 0.511 J 0.0768 0.0256 J	0.0517 0.0554 0.0108 0.00404 J	0.00471 J 0.00556 0.00175 J < 0.00498 U	 	 0.00315 J 0.00608 < 0.00499 U < 0.00499 U
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene	90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8	 0.00107 J 0.00142 J < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U	1.05 0.342 0.298 0.0672 0.797 0.0811 0.62	0.383 J 0.511 J 0.0768 0.0256 J 0.14 0.0221 J	0.0517 0.0554 0.0108 0.00404 J 0.0369 0.00627			 0.00315 J 0.00608 < 0.00499 U < 0.00499 U 0.00177 J 0.00317 J
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene	90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7	 0.00107 J 0.00142 J < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U	1.05 0.342 0.298 0.0672 0.797	0.383 J 0.511 J 0.0768 0.0256 J 0.14 0.0221 J 0.118	0.0517 0.0554 0.0108 0.00404 J 0.0369 0.00627 0.0307			
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene	90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5	SL-10 SL-7 SL-7 SL-7 SL-8 SL-9 SL-8 SL-7 SL-8 SL-7 SL-6 SL-6 SL-8		1.05 0.342 0.298 0.0672 0.797 0.0811 0.62 0.573 < 0.00596 UJ 0.94		0.0517 0.0554 0.0108 0.00404 J 0.0369 0.00627 0.0307 0.0316			
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Naphthalene	90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8	0.00107 J 0.00142 J < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U < 0.00498 U						
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g, h.j)perylene Fluoranthene Fluorene Naphthalene Phenanthrene	90-12-0 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g, h.i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a) anthracene Benzo(a) pyrene	90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5	SL-10 SL-7 SL-7 SL-7 SL-8 SL-9 SL-8 SL-7 SL-8 SL-7 SL-6 SL-6 SL-8							
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Naphthalene Phenanthrene Phenanthrene Phenalthrene Benzo(a)anthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene	DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g, hi)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	90-12-0 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(q,h,i)perylene Fluoranthene Fluoranthene Naphthalene Phenanthrene Pyrene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene	90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz- k-fluor	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Naphthalene Naphthalene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene	DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 208-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Ben2- k-fluor 207-08-9	mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acenaphthylene Anthracene Benzo(g,hi)perylene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j,k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	90-12-0 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz- k-fluor 207-08-9 218-01-9	mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
I-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Naphthalene Phenanthrene Phenanthrene Benzo(a)anthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene	90-12-0 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz- k-fluor 207-08-9 218-01-9 53-70-3	mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(a,h,i)perylene Fluoranthene Fluoranthene Naphthalene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz- k-fluor 207-08-9 218-01-9 53-70-3 193-39-5	mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-7 SL-6 SL-8 SL-7							
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Naphthalene Phenanthrene Phenanthrene Phenaphthalene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene	90-12-0 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz- k-fluor 207-08-9 218-01-9 53-70-3	mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7 SL-6 SL-8 SL-7							
1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(a, hi)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)apyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(l, k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Dibenzo(a, h)anthracene Indeno(1,2,3-od)pyrene Total Benzo(d)uronathene	90-12-0 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA	mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-7 SL-6 SL-8 SL-7							
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(q,h,i)perylene Fluoranthene Fluoranthene Naphthalene Naphthalene Phenanthrene Phenanthrene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Totalenzo(k,a)anthracene Indeno(1,2,3-cd)pyrene Total Benzo(luoranthenes Total HPAHs Total LPAHs Total LPAHs Total LPAHs Total LPAHs Total PAHs (ND=0)	90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH T-LPAH	mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-6 SL-6 SL-6 SL-8 SL-7							
1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Naphthalene Phenanthrene Phyrene Benz(a)lanthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes Total HPAHs Total LPAHs	DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH T-LPAH	mg/kg mg/kg	5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-6 SL-6 SL-6 SL-6 SL-6 SL-8							

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	MW-06 03/05/2021 MW-6-18-20 18 - 20 ft	MW-07 03/09/2021 MW-7-17-19 17 - 19 ft	MW-08 03/09/2021 MW-8-8-9 8 - 9 ft	MW-08 03/09/2021 MW-8-18-20 18 - 20 ft	MW-10 03/08/2021 MW-10-5.5-6.5 5.5 - 6.5 ft	MW-11 03/08/2021 MW-11-6-7 6 - 9 ft	MW-12 03/03/2021 MW-12-9.5-10.5 9.5 - 10.5 ft
Analyte	CAS RN	Unit	SPM_RI_SATURAT ED-SOIL_SLS 2022.02	Screening Level Source							
Metals	0/10_1(1)	Offic	_2022.02	Cource							
Arsenic	7440-38-2	mg/kg	7.3	SL-10	1.53	1.75	1.78 J		3.17	2.66	1.41
Barium	7440-39-3	mg/kg	8.26	SL-6						-	
Cadmium	7440-43-9	mg/kg	0.77	SL-10	< 0.12 U	< 0.12 U	< 0.12 U		0.05 J	< 0.13 U	0.1 J
Chromium	7440-47-3	mg/kg	48.2	SL-10	8.37	10.8	6.99 J	-	10.3	10.9	9.88
Copper	7440-50-8	mg/kg	36.4	SL-10	11.4	10.7	8.7	-	15.6	18.3	12.9
Lead	7439-92-1 7439-97-6	mg/kg	50	SL-9	1.36	1.6	1.15 J < 0.0256 U	<u></u>	2.08	2.77	2.03
Mercury	7439-97-6	mg/kg	0.07 48	SL-10 SL-10	6.94	11.3	< 0.0256 U 5.26 J	-	0.0312 9.07	0.0157 J 8.9	7.3
Nickel Selenium	7782-49-2	mg/kg mg/kg	0.3	SL-10	0.94	11.3	5.26 J		9.07	0.9	1.3
Silver	7440-22-4	mg/kg	0.0163	SL-6				-			
Zinc	7440-66-6	mg/kg	85.1	SL-10	21.7	28.7	19.4	-	24.1	24.1	40
Butyl Tin Ions											
Dibutyltin Ion	14488-53-0	mg/kg			-	-	< 0.00574 U	-	< 0.00578 U	< 0.00572 U	-
Monobutyltin	78763-54-9	mg/kg	ļ				< 0.00405 U		< 0.00408 U	< 0.00404 U	
Tetrabutyltin	1461-25-2	mg/kg				-	< 0.00497 U	-	< 0.005 U	< 0.00495 U	
Tributyltin Ion	36643-28-4	mg/kg	0.000111	SL-7			< 0.00383 U		< 0.00386 U	< 0.00382 U	
Polychlorinated Biphenyl Aroclors	10074 44 0	ma a: //			< 0.004 U	40.004 II	Z 0 00411	< 0.00411	< 0.00411	4 0 CO4 II	< 0.004 U
Aroclor 1016 Aroclor 1221	12674-11-2 11104-28-2	mg/kg	+		< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U
Aroclor 1232	11141-16-5	mg/kg mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1232	53469-21-9	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1248	12672-29-6	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Aroclor 1254	11097-69-1	mg/kg			< 0.004 U	< 0.004 U	0.006	< 0.004 U	< 0.004 U	< 0.004 U	0.0039 J
Aroclor 1260	11096-82-5	mg/kg			< 0.004 U	0.0009 J	0.0029 J	< 0.004 U	0.0008 J	0.0021 J	< 0.004 U
Aroclor 1262	37324-23-5	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	0.0014 J
Aroclor 1268	11100-14-4	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	5.49E-07	SL-6	< 0.004 U	0.0169 J	0.0229 J	< 0.004 U	0.0168 J	0.0181 J	0.0193 J
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	5.49E-07	SL-6	< 0.004 U	0.000900 J	0.00890 J	< 0.004 U	0.000800 J	0.00210 J	0.00530 J
Polychlorinated Biphenyl Congeners	T 0000	4	E 40E 07	01.0			1		ı		ı
Total PCB Congeners Total PCB TEQ (ND = 0)	T-PCBCong PCB-TEQ-0U	mg/kg mg/kg	5.49E-07 3.47E-10	SL-6 SL-6				<u></u>			
Total PCB TEQ (ND = 0)	PCB-TEQ-00	mg/kg	3.47E-10	SL-6							
Dioxins/Furans	1 OD-1LQ-1/20	mg/kg	3.47 L-10	OL-0							
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9							
Total CDF TEQ (ND = 1/2 RDL)						-					
	CDF TEQ-1/2U	mg/kg	2E-06	SL-9							
Total Dioxin/Furan TEQ (ND = 0)	CDF TEQ-1/2U DF-TEQ-0U		2E-06 5.2E-06	SL-10							
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06								
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06	SL-10 SL-10							
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26	SL-10 SL-10 SL-7	 0.00116 J		 < 0.00497 U		 < 0.00498 U	 < 0.00497 U	
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6	mg/kg ma/kq mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388	SL-10 SL-10 SL-7 SL-7	0.00116 J 0.0018 J		 < 0.00497 U < 0.00497 U		 < 0.00498 U < 0.00498 U	 < 0.00497 U < 0.00497 U	
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277	SL-10 SL-10 SL-7 SL-7 SL-7	0.00116 J 0.0018 J < 0.005 U		 < 0.00497 U < 0.00497 U < 0.00497 U		 < 0.00498 U < 0.00498 U < 0.00498 U	 < 0.00497 U < 0.00497 U < 0.00497 U 	
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8	0.00116 J 0.0018 J < 0.005 U < 0.005 U				<0.00498 U <0.00498 U <0.00498 U <0.00498 U <0.00498 U	<0.00497 U <0.00497 U <0.00497 U <0.00497 U <0.00497 U	
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7	 0.00116 J 0.0018 J < 0.005 U < 0.005 U < 0.005 U						
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8	0.00116 J 0.0018 J < 0.005 U < 0.005 U				<0.00498 U <0.00498 U <0.00498 U <0.00498 U <0.00498 U	<0.00497 U <0.00497 U <0.00497 U <0.00497 U <0.00497 U	
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Acenaphthylene Benzo(g,h,i)perylene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8					 	 	
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8							
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8							
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Anthracene Benzo(g, h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0	mg/kg ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8							
Total Dioxin/Furan TEO (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Pyrene Benz(g)alanthracene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-7 SL-7 SL-6 SL-8 SL-7							
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Anthracene Benzo(g,h,l)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)anthracene Benzo(a)anthracene Benzo(a)pyrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8							
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Naphthalene Naphthalene Phenanthrene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	mg/kg ma/ka mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-7 SL-7 SL-6 SL-8 SL-7							
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-7 SL-7 SL-6 SL-8 SL-7			 				
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-jk-fluor	mg/kg ma/ka mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-7 SL-7 SL-6 SL-8 SL-7							
Total Dioxin/Furan TEO (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Phenz(a)aphyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(j)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	mg/kg ma/ka mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-7 SL-7 SL-6 SL-8 SL-7			 				
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor	mg/kg ma/ka mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-7 SL-7 SL-6 SL-8 SL-7							
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	CDF TEO-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-7 SL-6 SL-8 SL-7							
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8							
Total Dioxin/Furan TEO (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(j)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-jk-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-10 SL-10 SL-17 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-6 SL-8 SL-7 SL-6 SL-8 SL-7							
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(a,h,i)perylene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)aphrene Benzo(a)pyrene Benzo(a)pyrene Benzo(ji)fluoranthene Benzo(ji,Kjfluoranthene Benzo(ji,Kjfluoranthene Benzo(ji,Kjfluoranthene Benzo(ji,Kjfluoranthene Benzo(ji,Kjfluoranthene Total HpAHs	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8							
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Total Senzo(la)pyrene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Total Benzo(guranthenes Total HPAHs Total PAHs (ND=0)	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH T-LPAH	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-10 SL-10 SL-17 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7 SL-6							
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Anthracene Benzo(a,h.i)perylene Fluoranthene Fluoranthene Fluoranthene Phenanthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)litoranthene Benzo(jitoranthene Benzo(jitoranthene Benzo(jitoranthene Benzo(jitoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes Total HPAHs Total LPAHs	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-10 SL-10 SL-17 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-6 SL-8 SL-7 SL-6 SL-8 SL-7							

				Location Date Sample Depth	MW-13 03/01/2021 MW-13-9.5-10.5 9.5 - 10.5 ft	MW-13 03/01/2021 MW-13-18-19.5 18 - 19.5 ft	SB-01 09/27/2007 SB-01-9 9 - 11 ft	SB-02 09/28/2007 SB-02-9 9 - 11 ft	SB-03 09/27/2007 SB-03-7 7 - 9 ft	SB-03 09/27/2007 SB-03-13.5 14 - 16 ft	SB-04 09/27/2007 SB-04-8 8 - 10 ft
Analyte	CAS RN	Unit	SPM_RI_SATURAT ED-SOIL_SLS 2022.02	Screening Level Source	0.0 10.0 1.						5 .6.
Metals	67.6 <u>_</u> 1.11	- Crinc		000,00							
Arsenic	7440-38-2	mg/kg	7.3	SL-10	1.78 J		1.5	2.2	1	1.7	4.2
Barium	7440-39-3	mg/kg	8.26	SL-6		-					-
Cadmium	7440-43-9	mg/kg	0.77	SL-10	< 0.12 U	-	0.037	0.063	0.281	0.029	0.097
Chromium	7440-47-3	mg/kg	48.2	SL-10	8.61		7.98	9.47	23.1	8.4	11.8
Copper	7440-50-8 7439-92-1	mg/kg	36.4 50	SL-10 SL-9	11.2 J		9.74	56 13.7 J	10.8 31.8 J	7.58	19.9 3.32 J
Lead Mercury	7439-92-1 7439-97-6	mg/kg ma/ka	0.07	SL-9 SL-10	1.39 J 0.016 J	-	1.29 J 0.007	13.7 J 0.009	31.8 J 0.015	2.23 J 0.01	3.32 J 0.048
Nickel	7440-02-0	mg/kg	48	SL-10	6.38	-	0.007	0.009	0.015	0.01	0.046
Selenium	7782-49-2	mg/kg	0.3	SL-9							
Silver	7440-22-4	mg/kg	0.0163	SL-6		_	0.06	0.066	0.07	0.055	0.108
Zinc	7440-66-6	mg/kg	85.1	SL-10	17.9	-	19.1	29.3	33	15	26.3
Butyl Tin Ions											
Dibutyltin Ion	14488-53-0	mg/kg				-					
Monobutyltin	78763-54-9	mg/kg			-	-		-			-
Tetrabutyltin	1461-25-2	mg/kg	0.000444	01.7							
Tributyltin Ion	36643-28-4	mg/kg	0.000111	SL-7		-					
Polychlorinated Biphenyl Aroclors Aroclor 1016	12674-11-2	mg/kg			< 0.004 U		< 0.0099 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 0.01 U
Aroclor 1221	11104-28-2	mg/kg			< 0.004 U	-	< 0.0099 U		< 0.0099 U	< 0.0099 U	
Aroclor 1221	11141-16-5	mg/kg			< 0.004 U	-					
Aroclor 1242	53469-21-9	mg/kg			< 0.004 U	_					_
Aroclor 1248	12672-29-6	mg/kg			< 0.004 U		< 0.0099 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 0.01 U
Aroclor 1254	11097-69-1	mg/kg			< 0.004 U		< 0.0099 U	< 0.01 U	0.092	0.039	< 0.01 U
Aroclor 1260	11096-82-5	mg/kg			< 0.004 U	-	< 0.0099 U	0.021	0.088	< 0.0099 U	< 0.01 U
Aroclor 1262	37324-23-5	mg/kg			< 0.004 U						
Aroclor 1268	11100-14-4	mg/kg			< 0.004 U						
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	5.49E-07	SL-6	< 0.004 U			0.0360 J	0.190 J	0.0539 J	< 0.01 UJ
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	5.49E-07	SL-6	< 0.004 U		< 0.0099 U	0.021	0.18	0.039	< 0.01 U
Polychlorinated Biphenyl Congeners Total PCB Congeners	T-PCBCong	mg/kg	5.49E-07	SL-6					I	I I	
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	3.47E-10	SL-6							
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	3.47E-10	SL-6							
Dioxins/Furans	1										
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9		-			-	-	
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9		-			-		-
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg	5.2E-06	SL-10							
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	mg/kg	5.2E-06	SL-10							
Polycyclic Aromatic Hydrocarbons	00.40.0		0.00	01.7	- 0.0040511		1		1		
1-Methylnaphthalene 2-Methylnaphthalene	90-12-0 91-57-6	mg/kg	2.26 0.0388	SL-7 SL-7	< 0.00495 U < 0.00495 U		 < 0.01 U	< 0.01 U	 < 0.01 U	< 0.0099 U	< 0.01 U
Acenaphthene	83-32-9	mg/kg mg/kg	0.0366	SL-7	< 0.00495 U		< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U
Acenaphthylene	208-96-8	mg/kg	1.3	SL-8	< 0.00495 U		< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U
Anthracene	120-12-7	mg/kg	0.0511	SL-7	< 0.00495 U	-	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.67	SL-8	< 0.00495 U	-	< 0.01 U	0.0064	< 0.01 U	< 0.0099 U	0.0065
Fluoranthene	206-44-0	mg/kg	0.0899	SL-7	< 0.00495 U		< 0.01 U	0.0091	0.0046	0.003	0.013
Fluorene	86-73-7	mg/kg	0.0294	SL-7	< 0.00495 U		< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U
Naphthalene	91-20-3	mg/kg	0.00207	SL-6	< 0.00495 U	< 0.00653 U	< 0.01 U	< 0.01 U	0.0037	< 0.0099 U	< 0.01 U
Phenanthrene	85-01-8	mg/kg	1.5	SL-8	0.00136 J		< 0.01 U	0.0029	0.0081	0.0038	0.0062
Pyrene	129-00-0	mg/kg	0.137	SL-7	< 0.00495 U	-	< 0.01 U	0.0083	0.0051 < 0.01 U	0.0033	0.017
Benz(a)anthracene Benzo(a)pyrene	56-55-3 50-32-8	mg/kg mg/kg	1.55E-05	SL-6	< 0.00495 U < 0.00495 U		< 0.01 U < 0.01 U	0.0052 0.006	< 0.01 U < 0.01 U	< 0.0099 U < 0.0099 U	0.0063 0.0075
Benzo(b)fluoranthene	205-99-2	mg/kg	1.000-00	OL-U	< 0.00495 U		< 0.01 U	0.00	< 0.01 U	< 0.0099 U	0.0079
Benzo(j)fluoranthene	205-82-3	mg/kg			< 0.00495 U						
Benzo(j,k)fluoranthene	Benz-jk-fluor	mg/kg									
	207-08-9	mg/kg			< 0.00495 U	_	< 0.01 U	0.0036	< 0.01 U	< 0.0099 U	0.0023
Benzo(k)fluoranthene					< 0.00495 U		< 0.01 U	0.0071	< 0.01 U	< 0.0099 U	0.0071
Chrysene	218-01-9	mg/kg			0.0040511		< 0.01 U	0.0022	< 0.01 U	< 0.0099 U	< 0.01 U
Chrysene Dibenzo(a,h)anthracene	53-70-3	mg/kg			< 0.00495 U						
Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	53-70-3 193-39-5	mg/kg mg/kg		01 -	< 0.00495 U	-	< 0.01 U	0.006	< 0.01 U	< 0.0099 U	0.0061
Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes	53-70-3 193-39-5 TOTBFA	mg/kg mg/kg mg/kg	3.2	SL-8	< 0.00495 U < 0.0099 U		< 0.01 U	0.006	< 0.01 U	< 0.0099 U 	0.0061
Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes Total HPAHs	53-70-3 193-39-5 TOTBFA T-HPAH	mg/kg mg/kg mg/kg mg/kg	12	SL-8	< 0.00495 U < 0.0099 U < 0.00495 U	-	< 0.01 U < 0.01 U	0.006 0.0639	< 0.01 U 0.00970	< 0.0099 U 0.00630	0.0061 0.0737
Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes Total HPAHs Total LPAHs	53-70-3 193-39-5 TOTBFA T-HPAH T-LPAH	mg/kg mg/kg mg/kg mg/kg mg/kg			< 0.00495 U < 0.0099 U < 0.00495 U 0.00136 J		< 0.01 U < 0.01 U < 0.01 U	0.006 0.0639 0.00290	< 0.01 U 0.00970 0.0118	< 0.0099 U 0.00630 0.00380	0.0061 0.0737 0.00620
Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes Total HPAHs	53-70-3 193-39-5 TOTBFA T-HPAH	mg/kg mg/kg mg/kg mg/kg	12	SL-8	< 0.00495 U < 0.0099 U < 0.00495 U		< 0.01 U < 0.01 U	0.006 0.0639	< 0.01 U 0.00970	< 0.0099 U 0.00630	0.0061 0.0737

				Location Date Sample Depth	SB-05 09/27/2007 SB-05-8 8 - 10 ft	SB-06 09/28/2007 SB-06-8 8 - 10 ft	SB-07 09/28/2007 SB-07-9 9 - 11 ft	SB-08 09/27/2007 SB-08-9 9 - 11 ft	SB-09 09/27/2007 SB-09-10 10 - 12 ft	SB-10 09/28/2007 SB-10-14 14 - 16 ft	SB-13 10/01/2007 SB-13-7 7 - 9 ft
Analyte	CAS RN	Unit	SPM_RI_SATURAT ED-SOIL_SLS 2022.02	Screening Level Source	- 1010	- 1010					
Metals											
Arsenic	7440-38-2	mg/kg	7.3	SL-10	8.7	1.9	1.4	2.1	2	1.8	1.2
Barium	7440-39-3	mg/kg	8.26	SL-6	-	-					
Cadmium	7440-43-9	mg/kg	0.77	SL-10	0.084	0.021	0.025	0.061	0.029	0.141	0.577
Chromium	7440-47-3	mg/kg	48.2	SL-10	13.4	7.51	6.37	10.6	7.66	8.6	21.5
Copper Lead	7440-50-8 7439-92-1	mg/kg	36.4 50	SL-10 SL-9	21.7 4.39 J	7.19 1.49 J	7.38 2.13 J	13.9 2.09 J	10.6 1.46 J	10.8 16.3 J	5.43 33.9
Mercury	7439-92-1	mg/kg mg/kg	0.07	SL-9 SL-10	4.39 J 0.064	1.49 J 0.004	0.005	0.028	0.008	0.007	0.021
Nickel	7440-02-0	mg/kg	48	SL-10	0.004	0.004	0.005	0.020	0.000	0.007	0.021
Selenium	7782-49-2	mg/kg	0.3	SL-9		-					
Silver	7440-22-4	mg/kg	0.0163	SL-6	0.145	0.055	0.049	0.091	0.064	0.116	0.057
Zinc	7440-66-6	mg/kg	85.1	SL-10	28.9	15.4	14.8	22.6	17.6	28.7	122
Butyl Tin Ions											
Dibutyltin Ion	14488-53-0	mg/kg			-	-			-		
Monobutyltin	78763-54-9	mg/kg			-		-		-	-	-
Tetrabutyltin	1461-25-2	mg/kg			-	-					
Tributyltin Ion	36643-28-4	mg/kg	0.000111	SL-7							
Polychlorinated Biphenyl Aroclors	10074 44 0	ma e- N	1		< 0.0099 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 1 U
Aroclor 1016 Aroclor 1221	12674-11-2 11104-28-2	mg/kg	1		< 0.0099 U	< U.U1 U	< U.U1 U	< U.U1 U	< 0.0099 U	< 0.0099 U	< 1 U
Aroclor 1221 Aroclor 1232	11104-28-2 11141-16-5	mg/kg mg/kg	1								
Aroclor 1242	53469-21-9	mg/kg			-						
Aroclor 1248	12672-29-6	mg/kg			< 0.0099 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 1 U
Aroclor 1254	11097-69-1	mg/kg			< 0.0099 U	0.023	0.0059 J	< 0.01 U	< 0.0099 U	0.022	13
Aroclor 1260	11096-82-5	mg/kg			< 0.0099 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	0.024	<1U
Aroclor 1262	37324-23-5	mg/kg			-	-				-	
Aroclor 1268	11100-14-4	mg/kg			-	ı			-	-	
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	5.49E-07	SL-6	< 0.0099 UJ	0.0380 J	0.0209 J	< 0.01 UJ	< 0.0099 UJ	0.0559 J	14.5 J
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	5.49E-07	SL-6	< 0.0099 U	0.023	0.0059	< 0.01 U	< 0.0099 U	0.046	13
Polychlorinated Biphenyl Congeners							T	T	ı	T	
Total PCB Congeners Total PCB TEQ (ND = 0)	T-PCBCong PCB-TEQ-0U	mg/kg	5.49E-07 3.47E-10	SL-6 SL-6		-					
Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-00 PCB-TEQ-1/2U	mg/kg mg/kg	3.47E-10 3.47E-10	SL-6	-						
Dioxins/Furans	FCB-1EQ-1/20	mg/kg	3.47E-10	SL-0							
	CDD TEQ-1/2U	ma/ka	2F-06	SI -9							
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U CDF TEQ-1/2U	mg/kg mg/ka	2E-06 2E-06	SL-9 SL-9							
	CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U	mg/kg mg/kg mg/kg	2E-06 2E-06 5.2E-06	SL-9 SL-9 SL-10							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9	-	-					
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06	SL-9 SL-10 SL-10							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0	mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06	SL-9 SL-10 SL-10 SL-7							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6	mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388	SL-9 SL-10 SL-10 SL-7 SL-7	 < 0.01 U	 < 0.0098 U	 < 0.0099 U	 < 0.0099 U	 < 0.0098 U	 < 0.01 U	 < 0.19 U
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7	 < 0.01 U < 0.01 U	 < 0.0098 U < 0.0098 U	 < 0.0099 U < 0.0099 U	 < 0.0099 U < 0.0099 U	 < 0.0098 U < 0.0098 U	 < 0.01 U < 0.01 U	 < 0.19 U < 0.19 U
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-7 SL-8	 < 0.01 U < 0.01 U < 0.01 U		 < 0.0099 U < 0.0099 U < 0.0099 U	 < 0.0099 U < 0.0099 U < 0.0099 U	 < 0.0098 U < 0.0098 U < 0.0098 U	 < 0.01 U < 0.01 U < 0.01 U	 < 0.19 U < 0.19 U < 0.19 U
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-7 SL-8 SL-7	 < 0.01 U < 0.01 U < 0.01 U < 0.01 U	 < 0.0098 U < 0.0098 U < 0.0098 U < 0.0098 U	 < 0.0099 U < 0.0099 U < 0.0099 U < 0.0099 U	 < 0.0099 U < 0.0099 U < 0.0099 U < 0.0099 U			 < 0.19 U < 0.19 U < 0.19 U < 0.19 U
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Benzo(g,h,j)perylene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2	mg/kg ma/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8				 			
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,l)perylene Fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0	mg/kg mg/kq mg/kq mg/kq mg/kq mg/kg mg/kg mg/kq mg/kq mg/kq mg/kq	2E-06 5.2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7	 < 0.01 U < 0.01 U < 0.01 U < 0.01 U 0.0058 0.011						
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7	mg/kg ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,l)perylene Fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0	mg/kg mg/kq mg/kq mg/kq mg/kq mg/kg mg/kg mg/kq mg/kq mg/kq mg/kq	2E-06 5.2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7	 < 0.01 U < 0.01 U < 0.01 U < 0.01 U 0.0058 0.011						
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthlene Acenaphthlene Acenaphthlene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-7 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,l)perylene Fluoranthene Fluorene Naphthalene Naphthalene Phenanthrene Pyrene Benzo(a)anthracene Benzo(a)anthracene Benzo(a)anthracene Benzo(a)pyrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthlene Acenaphthylene Anthracene Benzo(g,h,l)perylene Fluoranthene Fluoranthene Fluoranthene Naphthalene Naphthalene Naphthalene Phenanthrene Pyrene Benzo(a)phyrene Benzo(a)phyrene Benzo(a)phyrene Benzo(b)pluoranthene	DF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	mg/kg ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-7 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-7 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,l)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)phyrene Benzo(a)phyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-jk-fluor	mg/kg ma/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-7 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenanthrene Phenzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(jifluoranthene Benzo(jifluoranthene Benzo(jifluoranthene Benzo(jifluoranthene Benzo(jifluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor	mg/kg ma/ka mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-7 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Anthracene Benzo(a,h.i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)kfluoranthene Benzo(j,kfluoranthene Benzo(j,kfluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-7 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,l)perylene Fluoranthene Fluoranthene Naphthalene Naphthalene Phenanthrene Phenanthrene Phenanthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-jk-fluor 207-08-9 218-01-9 53-70-3	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-7 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-7 SL-7 SL-7 SL-8 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Anthracene Benzo(g,h,l)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a), anthracene Benzo(a), anthracene Benzo(a), anthracene Benzo(a), illuoranthene Benzo(b), illuoranthene Benzo(b), illuoranthene Benzo(b), illuoranthene Benzo(b), illuoranthene Benzo(b), illuoranthene Benzo(b), illuoranthene Benzo(c), illuoranthene Benzo(c), illuoranthene Benzo(c), illuoranthene Benzo(c), illuoranthene Benzo(c), illuoranthene Benzo(c), illuoranthene Benzo(c), illuoranthene Benzo(c), illuoranthene Dibenzo(a, h), anthracene Indeno(1,2,3-cd), pyrene Total Benzofluoranthenes	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-8							
Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137	SL-9 SL-10 SL-7 SL-7 SL-7 SL-8 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-7							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenanthrene Penzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(jifluoranthene Benzo(jifluoranthene Benzo(jifluoranthene Benzo(jifluoranthene Benzo(jifluoranthene Benzo(jifluoranthene Benzo(jifluoranthene Benzo(ja,3-cd)pyrene Total Benzofluoranthenes Indeno(1,2,3-cd)pyrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-jk-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-8 SL-8 SL-8 SL-8							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(ji)fluoranthene Total LPAHs	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-0U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH	mg/kg mg/kg	2E-06 5.2E-06 5.2E-06 2.26 0.0388 0.0277 1.3 0.0511 0.67 0.0899 0.0294 0.00207 1.5 0.137 1.55E-05	SL-9 SL-10 SL-10 SL-7 SL-7 SL-7 SL-8 SL-7 SL-8 SL-7 SL-8 SL-7 SL-6 SL-8 SL-8 SL-8 SL-8 SL-8							

				Location Date Sample Depth	SB-14 10/01/2007 SB-14-7.5 8 - 10 ft	SB-17 07/27/2011 SB17-10.0-072711 10 - 10 ft	SB-18A 07/27/2011 SB18A-9.0-072711 9 - 9 ft	SB-19 07/28/2011 SB19-8.0-072811 8 - 8 ft	SB-20A 07/27/2011 SB20A-8.5-072711 8.5 - 8.5 ft	SB-21 07/27/2011 SB21-9.0-072711 9 - 9 ft	SB-22 07/27/2011 SB22-10.0-072711 10 - 10 ft
Analyte	CAS RN	Unit	SPM_RI_SATURAT ED-SOIL_SLS 2022.02	Screening Level Source							
Metals											
Arsenic	7440-38-2	mg/kg	7.3	SL-10	1.6	-	-	-	-	< 12 U	< 13 U
Barium	7440-39-3	mg/kg	8.26	SL-6		-				31	35
Cadmium	7440-43-9	mg/kg	0.77	SL-10	0.159	-	-	-		0.61	< 0.65 U
Chromium	7440-47-3	mg/kg	48.2	SL-10	22.1			-		27	25
Copper Lead	7440-50-8 7439-92-1	mg/kg ma/ka	36.4 50	SL-10 SL-9	9.88 18.2					46	23
Mercury	7439-92-1	mg/kg	0.07	SL-9 SL-10	0.274					< 0.3 U	< 0.32 U
Nickel	7440-02-0	mg/kg	48	SL-10	0.274				_		V 0.52 U
Selenium	7782-49-2	mg/kg	0.3	SL-9		_		-	_	< 12 U	< 13 U
Silver	7440-22-4	mg/kg	0.0163	SL-6	0.058					< 0.59 U	< 0.65 U
Zinc	7440-66-6	mg/kg	85.1	SL-10	26.4	-	-	-		-	
Butyl Tin Ions											
Dibutyltin Ion	14488-53-0	mg/kg				-	-	-	-	-	
Monobutyltin	78763-54-9	mg/kg								-	
Tetrabutyltin	1461-25-2	mg/kg	0.000111	CL 7				-		-	
Tributyltin Ion Polychlorinated Biphenyl Aroclors	36643-28-4	mg/kg	0.000111	SL-7			<u> </u>				
Aroclor 1016	12674-11-2	mg/kg	1		< 0.099 U		I			< 1.2 U	< 0.65 U
Aroclor 1010 Aroclor 1221	11104-28-2	mg/kg								< 1.2 U	< 0.65 U
Aroclor 1232	11141-16-5	mg/kg				-		-		< 1.2 U	< 0.65 U
Aroclor 1242	53469-21-9	mg/kg						-		< 1.2 U	< 0.65 U
Aroclor 1248	12672-29-6	mg/kg			< 0.099 U		-	-	-	< 1.2 U	< 0.65 U
Aroclor 1254	11097-69-1	mg/kg			7					8.9	3.1
Aroclor 1260	11096-82-5	mg/kg			4.9	-	-	-		< 1.2 U	< 0.65 U
Aroclor 1262	37324-23-5	mg/kg									
Aroclor 1268	11100-14-4	mg/kg	E 40E 07	01.0	 12.0 J						
Total PCB Aroclors (ND=1/2 RL) Total PCBs (Sum of Aroclors)	T-PCBs1/2U T-PCBs	mg/kg mg/kg	5.49E-07 5.49E-07	SL-6 SL-6	12.0 J 11.9					12.5 8.9	5.05 3.1
Polychlorinated Biphenyl Congeners	I-FCBs	mg/kg	5.49E-07	JL-0	11.5	-				0.9	3.1
Total PCB Congeners	T-PCBCong	mg/kg	5.49E-07	SL-6		-					
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	3.47E-10	SL-6		-		-			
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	3.47E-10	SL-6		-	-	-	-	-	
Dioxins/Furans											
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9		-	-	-			
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9		-				-	
Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-0U DF-TEQ-1/2U	mg/kg	5.2E-06 5.2E-06	SL-10 SL-10		-					
Polycyclic Aromatic Hydrocarbons	DF-1EQ-1/20	mg/kg	3.2E-00	SL-10		-		-		-	
1-Methylnaphthalene	90-12-0	mg/kg	2.26	SL-7						< 0.016 U	0.13
2-Methylnaphthalene	91-57-6	mg/kg	0.0388	SL-7	4.5	-		-		< 0.016 U	< 0.015 U
Acenaphthene	83-32-9	mg/kg	0.0277	SL-7	0.51 J			-		< 0.016 U	0.21
Acenaphthylene	208-96-8	mg/kg	1.3	SL-8	<1U	-	-	-		< 0.016 U	0.052
Anthracene	120-12-7	mg/kg	0.0511	SL-7	1.2	-				0.016	0.51
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.67	SL-8	< 1 U	-	-	-		< 0.016 U	0.035
Fluoranthene	206-44-0	mg/kg	0.0899	SL-7	0.88 J	-		-	-	0.023	0.46
Fluorene Naphthalene	86-73-7 91-20-3	mg/kg	0.0294 0.00207	SL-7 SL-6	0.51 J	-	-			< 0.016 U < 0.016 U	0.45 0.12
Phenanthrene	85-01-8	mg/kg mg/kg	1.5	SL-8	2.4					< 0.016 U	0.045
Pyrene	129-00-0	mg/kg	0.137	SL-7	0.99 J			-		0.031	0.45
Benz(a)anthracene	56-55-3	mg/kg	0.107	02,	< 1 U	_		-	-	< 0.016 U	0.12
Benzo(a)pyrene	50-32-8	mg/kg	1.55E-05	SL-6	< 1 U	-				< 0.016 U	0.17
Benzo(b)fluoranthene	205-99-2	mg/kg			< 1 U	-	-	-	-	< 0.016 U	0.081
Benzo(j)fluoranthene	205-82-3	mg/kg						-		-	
Benzo(j,k)fluoranthene	Benz-jk-fluor	mg/kg				-		-		< 0.016 U	0.066
Benzo(k)fluoranthene	207-08-9	mg/kg			< 1 U						
Chrysene	218-01-9 53-70-3	mg/kg			0.53 J < 1 U	-		-		0.022 < 0.016 U	0.19 0.017
Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg mg/kg			<1U	-				< 0.016 U	0.017
Total Benzofluoranthenes	TOTBFA	mg/kg	3.2	SL-8		-					
Total HPAHs	T-HPAH	mg/kg	12	SL-8	2.40 J	-				0.0760	1.62
Total LPAHs	T-LPAH	mg/kg	5.2	SL-8	5.62 J					0.0160	1.39
Total PAHs (ND=0)	T-PAH	mg/kg			8.02 J					0.0920	3.01
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg	1.55E-05	SL-6	0.00530 J	-	-	-	-	0.000220	0.203
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg	1.55E-05	SL-6	0.755 J					0.0122	0.203

Marie					Location Date Sample Depth	SB22-14.0-072711	SB-23 07/28/2011 SB23-8.0-072811 8 - 8 ft	SB-24 07/28/2011 SB24-7.0-072811 7 - 7 ft	SB-25 07/28/2011 SB25-10.0-072811 10 - 10 ft	SB-26 03/04/2021 SB-26-5.5-6.5 5.5 - 6.5 ft	SB-26 03/04/2021 SB-26-12.5 12.5 ft	SB-26 03/04/2021 SB-26-18-20 18 - 20 ft
Marie	Analyte	CAS RN	Unit	ED-SOIL_SLS								
Service		<u> </u>					L			L		
Comman		7440-38-2	mg/kg	7.3	SL-10					1.6		1.4
Common	Barium	7440-39-3	mg/kg	8.26	SL-6	-	-			-		-
Content												
Feet 759-92-1 mg/s 50 50 50								-				
Marcon												
Section												
Settlem						-		-				
Speciment 7440-72-6 mg/sh 0.01953 St. 4						-	-				-	
Tree												
Bay Tria lose												
Debugs D												
Mancabath 17875-84-9		14488-53-0	mg/kg									
Thoughing loop		78763-54-9				-			-		-	
Polychicrinated Explaned Anodock 12874-11-2 making												
Receive 1016		36643-28-4	mg/kg	0.000111	SL-7							
Accept 1221		1			1	1	1		1			
Appoint 122												
Apoptor 1/242	Aroclor 1221											
Accolar 1268	Aroclor 1232											
Aproder 1/280												
Anoder 1202												
Aproclet 1282												
Apode 1288												
Total PCB (Sup of Ancolons)												
Total PCB (Sum of Ancotons)				5.49E-07	SL-6							
Total PCB TCR (NN = 0)	Total PCBs (Sum of Aroclors)	T-PCBs		5.49E-07	SL-6	-				0.0975	0.0909	< 0.004 U
Total PCB TEQ (ND = 10) PCB-TEC-0/LU mg/kg 3.47E-10 SL-6	Polychlorinated Biphenyl Congeners											
Total CDD TEQ (ND = 1/2 RDL) PCB TEQ-1/2/U mg/kg ZE-06 SL-9	Total PCB Congeners											
Dioxins/Furans												
Total CDD TEC (ND = 1/2 RDL)		PCB-TEQ-1/2U	mg/kg	3.47E-10	SL-6							
Total Dosn'Furan TEC (ND = 12 RDL)		CDD TEO 1/2U	ma ar II c ar	25.06	L 01.0		1		ı	1	ı	
Total Dison/Furan TEC (ND = 1)												
Total Dioxin/Furan TEQ (ND = 1/2 RDL)												
Polycyclic Aromatic Hydrocarbons												
Methylnaphthalene		DI -12Q-1/20	mg/kg	0.2L-00	OL-10							
2-Methylnaphthalene		90-12-0	mg/kg	2.26	SL-7					< 0.00499 U	0.00469 J	
Acenaphthene 83-32-9 mg/kg 0.0277 SL-7	2-Methylnaphthalene	91-57-6		0.0388	SL-7					< 0.00499 U	0.00714	
Anthracere 120-12-7 mg/kg 0.0511 SL-7			mg/kg	0.0277	SL-7	-				< 0.00499 U	0.00081 J	-
Benzo(gh,h)perylene	Acenaphthylene											
Fluorene 206-44-0 mg/kg 0.0899 SL-7												
Fluorene 86-73-7 mg/kg 0.0294 SL-7												
Naphthalene							-					
Phenathrene												
Pyrene												
Benz(a)anthracene 56-55-3 mg/kg 1.55E-05 SL-6 0.00499 U 0.00212 J Benz(a)pyrene 50-32-8 mg/kg 1.55E-05 SL-6 0.00499 U 0.00166 J Benz(a)(p)troanthene 205-92-2 mg/kg 0.00499 U 0.00166 J Benz(a)(p)troanthene 205-82-3 mg/kg 0.00499 U 0.00118 J Benz(a)(k)fluoranthene 205-82-3 mg/kg Benz(a)(k)fluoranthene 207-08-9 mg/kg Benz(a)(k)fluoranthene 207-08-9 mg/kg Chrysene 218-01-9 mg/kg 0.00499 U 0.00040 J Chrysene 218-01-9 mg/kg 0.00499 U 0.00408 J Indeno(1,2,3-cd)pyrene 193-39-5 mg/kg 3.2 SL-8 0.00499 U 0.00135 J Total BPAHs T-I-PAH mg/kg 3.2 SL-8 0.00320 J 0.0246 J Total PAHs T-I-PAH mg/kg 5.2 SL-8 0.00320 J 0.0246 J Total PAHs T-I-PAH mg/kg 1.55E-05 SL-6 0.00320 J 0.0247 J Total PAHs (ND=0) T-PAH-0U mg/kg 1.55E-05 SL-6 0.00320 J 0.00247 J Total PAHs (ND=0) T-PAH-0U mg/kg 1.55E-05 SL-6 0.00320 J 0.00247 J Total PAHs (ND=0) T-PAH-0U mg/kg 1.55E-05 SL-6 0.00320 J 0.00247 J Total PAHs (ND=0) T-PAH-0U mg/kg 1.55E-05 SL-6 0.00320 J 0.00247 J Total PAHs (ND=0) T-PAH-0U mg/kg 1.55E-05 SL-6							-					-
Benzo(a)pyrene 50-32-8 mg/kg 1.55E-05 SL-6 < 0.00499 U 0.00165 J				0.107	GL-1							
Benzo(b)fluoranthene 205-99-2 mg/kg < 0.00499 U 0.00214 J	Benzo(a)pyrene			1,55E-05	SL-6							
Benzo()fluoranthene 205-82-3 mg/kg												_
Benzo(k)fluoranthene Benz-k-fluor mg/kg												
Chrysene 218-01-9 mg/kg <0.00499 U 0.00405 J Chrysene 53-70-3 mg/kg <0.00499 U 0.00408 U Chrysene 193-39-5 mg/kg <0.00499 U <0.00498 U <0.00499 U 0.00135 J Chrysene 193-39-5 mg/kg 3.2 SL-8 <0.00499 U 0.00135 J Chrysene <0.00499 U 0.00135 J Chrysene		207-08-9										
Indeno(1,2,3-cd)pyrene			mg/kg									
Total Benzofluoranthenes TOTBFA mg/kg 3.2 SL-8 < 0.00997 U 0.00411 J Total HPAHs T-HPAH mg/kg 12 SL-8 0.00320 J 0.0246 J Total LPAHs T-LPAH mg/kg 5.2 SL-8 < 0.00530 U 0.0189 J Total LPAHs (ND=0) T-PAH mg/kg 0.00320 J 0.0436 J Total CPAHs TEQ (ND = 0) T-cPAH-0U mg/kg 1.55E-05 SL-6 < 0.00499 U 0.00247 J												
Total HPAHs												
Total CPAHs T_LPAH mg/kg 5.2 SL-8 0.00536 U 0.0189 J Total CPAHs (ND=0) T_PAH mg/kg 1.55E-05 SL-6 0.00320 J 0.0436 J Total CPAHs TEQ (ND=0) T_PAH-0U mg/kg 1.55E-05 SL-6 0.00320 J 0.04056 J T_PAH-0U mg/kg 1.55E-05 SL-6 0.00390 U 0.00247 J												
Total PAHs (ND=0) T-PAH mg/kg 0.00320 J 0.0436 J Total cPAHs TEQ (ND = 0) T-cPAH-0U mg/kg 1.55E-05 SL-6 <0.0049 U 0.00247 J												
Total cPAHs TEQ (ND = 0) T-cPAH-0U mg/kg 1.55E-05 SL-6 < 0.00499 U 0.00247 J				5.2	SL-8							
				1.55E_05	91.6							
Total cDAHc TEO (ND = 1/2 PDI) T. cDAH 1/2	Total cPAHs TEQ (ND = 0) Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg	1.55E-05	SL-6	-	-		-	< 0.00499 U	0.00247 J	-

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-27 03/09/2021 SB-27-8-9 8 - 9 ft	SB-27 03/09/2021 SB-27-18-20 18 - 20 ft	SB-28 03/01/2021 SB-28-14.5-15.5 14.5 - 15.5 ft	SB-30 03/01/2021 SB-30-11.5-12.5 11.5 - 12.5 ft	SB-30 03/01/2021 SB-30-12.5-14.5 12.5 - 14.5 ft	SB-30 03/01/2021 SB-30-23-25 23 - 25 ft	SB-31 03/01/2021 SB-31-10-11 10 - 11 ft
Analyte	CAS RN	Unit	SPM_RI_SATURAT ED-SOIL_SLS 2022.02	Screening Level Source							
Metals	0/10_111 1	Onic		Cource			l .				
Arsenic	7440-38-2	mg/kg	7.3	SL-10	4.06 J	1.79	2 J			2.27 J	4.78
Barium	7440-39-3	mg/kg	8.26	SL-6						-	
Cadmium	7440-43-9	mg/kg	0.77	SL-10	0.17	< 0.11 U	< 0.12 U			0.05 J	0.12 J
Chromium	7440-47-3	mg/kg	48.2	SL-10	69.2	9.65	8.91			11.1	27.8
Copper	7440-50-8	mg/kg	36.4	SL-10	38.2	9.8	9.02 J			12.1 J	27.3
Lead	7439-92-1	mg/kg	50	SL-9	11 J	1.38	1.39 J			1.27 J	4.42
Mercury	7439-97-6 7440-02-0	mg/kg	0.07 48	SL-10	0.0162 J	9.62	0.00968 J 8.17			0.01 J	20.7
Nickel Selenium	7440-02-0	mg/kg mg/kg	0.3	SL-10 SL-9	14.7 J	9.62	8.17			10.8	20.7
Silver	7440-22-4	mg/kg	0.0163	SL-6							
Zinc	7440-66-6	mg/kg	85.1	SL-10	53.2	26.4	23.9			21.3	35.3
Butyl Tin Ions											
Dibutyltin Ion	14488-53-0	mg/kg			0.00936		< 0.0057 U				
Monobutyltin	78763-54-9	mg/kg			0.00473		< 0.00402 U				
Tetrabutyltin	1461-25-2	mg/kg			< 0.00498 U		< 0.00493 U				
Tributyltin Ion	36643-28-4	mg/kg	0.000111	SL-7	0.01		< 0.00381 U		-		
Polychlorinated Biphenyl Aroclors	40074 44 0		1	1	.0010711	.0.00111	10.00111			.0.00111	
Aroclor 1016	12674-11-2	mg/kg			< 0.0197 U	< 0.004 U < 0.004 U	< 0.004 U			< 0.004 U	
Aroclor 1221	11104-28-2	mg/kg			< 0.0197 U < 0.0197 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U			< 0.004 U < 0.004 U	
Aroclor 1232 Aroclor 1242	11141-16-5 53469-21-9	mg/kg mg/kg			< 0.0197 U < 0.0197 U	< 0.004 U	< 0.004 U			< 0.004 U < 0.004 U	
Aroclor 1242 Aroclor 1248	12672-29-6	mg/kg			< 0.0197 U	< 0.004 U	< 0.004 U			< 0.004 U	
Aroclor 1254	11097-69-1	mg/kg			< 0.0197 U	< 0.004 U	< 0.004 U			< 0.004 U	
Aroclor 1260	11096-82-5	mg/kg			0.0125 J	< 0.004 U	< 0.004 U			< 0.004 U	
Aroclor 1262	37324-23-5	mg/kg			< 0.0197 U	< 0.004 U	< 0.004 U			< 0.004 U	
Aroclor 1268	11100-14-4	mg/kg			< 0.0197 U	< 0.004 U	< 0.004 U			< 0.004 U	
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	5.49E-07	SL-6	0.0913 J	< 0.004 U	< 0.004 U			< 0.004 U	
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	5.49E-07	SL-6	0.0125 J	< 0.004 U	< 0.004 U			< 0.004 U	
Polychlorinated Biphenyl Congeners					1			1	1		
Total PCB Congeners	T-PCBCong	mg/kg	5.49E-07	SL-6			-				
Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-0U PCB-TEQ-1/2U	mg/kg	3.47E-10 3.47E-10	SL-6 SL-6			-				
Dioxins/Furans	PCB-TEQ-1/20	mg/kg	3.47E-10	SL-0			-				
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg	2E-06	SL-9	I		I	I	I	I	
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg	2E-06	SL-9							
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg	5.2E-06	SL-10		_				_	
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	mg/kg	5.2E-06	SL-10							
Polycyclic Aromatic Hydrocarbons											
1-Methylnaphthalene	90-12-0	mg/kg	2.26	SL-7	< 0.0248 U		< 0.00497 U			0.00551	
2-Methylnaphthalene	91-57-6	mg/kg	0.0388	SL-7	< 0.0248 U	-	< 0.00497 U			< 0.00553 U	-
Acenaphthene	83-32-9	mg/kg	0.0277	SL-7	< 0.0248 U		< 0.00497 U			0.00411 J	
Acenaphthylene	208-96-8	mg/kg	1.3	SL-8	< 0.0248 U		< 0.00497 U			< 0.00498 U	
Anthracene Benzo(g,h,i)perylene	120-12-7 191-24-2	mg/kg mg/kg	0.0511 0.67	SL-7 SL-8	< 0.0248 U 0.0152 J		< 0.00497 U < 0.00497 U			0.00087 J < 0.00498 U	
Fluoranthene	206-44-0	mg/kg	0.0899	SL-6 SL-7	0.0152 J 0.0106 J		< 0.00497 U			0.00498 U	
Fluorene	86-73-7	mg/kg	0.0294	SL-7	< 0.0248 U	-	< 0.00497 U	-	-	< 0.00498 U	
Naphthalene	91-20-3	mg/kg	0.00207	SL-6	< 0.00472 U		< 0.00497 U		< 0.00642 UJ	< 0.00498 U	
Phenanthrene	85-01-8	mg/kg	1.5	SL-8	0.012 J		0.00149 J			0.0116	
Pyrene	129-00-0	mg/kg	0.137	SL-7	0.00767 J		0.00065 J			0.00277 J	
Benz(a)anthracene	56-55-3	mg/kg			< 0.0248 U	-	< 0.00497 U			0.00215 J	
Benzo(a)pyrene	50-32-8	mg/kg	1.55E-05	SL-6	0.0103 J		< 0.00497 U			0.00112 J	
Benzo(b)fluoranthene	205-99-2	mg/kg			0.0111 J		< 0.00497 U			0.0016 J	
Benzo(j)fluoranthene	205-82-3	mg/kg			0.00446 J		< 0.00497 U			0.00113 J	
Benzo(j,k)fluoranthene	Benz-jk-fluor	mg/kg			 - 0.0249.11		 < 0.00497 U			 < 0.00409.11	
Benzo(k)fluoranthene Chrysene	207-08-9 218-01-9	mg/kg mg/kg			< 0.0248 U 0.0246 J		< 0.00497 U < 0.00497 U			< 0.00498 U 0.00368 J	
Dibenzo(a,h)anthracene	53-70-3	mg/kg			< 0.0248 U		< 0.00497 U			< 0.00366 J < 0.00498 U	
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg			0.00606 J		< 0.00497 U			< 0.00498 U	
Total Benzofluoranthenes	TOTBFA	mg/kg	3.2	SL-8	0.0223 J		< 0.00994 U			0.00367 J	
Total HPAHs	T-HPAH	mg/kg	12	SL-8	0.0855 J		0.000650 J			0.0129 J	
Total LPAHs	T-LPAH	mg/kg	5.2	SL-8	0.0120 J	_	0.00149 J		_	0.0197 J	
Total PAHs (ND=0)	T-PAH	mg/kg			0.0975 J	-	0.00214 J			0.0326 J	
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg	1.55E-05	SL-6	0.0123 J	-	< 0 U			0.00153 J	
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg	1.55E-05	SL-6	0.0160 J	_	< 0.00375235 U		-	0.00228 J	

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-31 03/01/2021 SB-31-13-14.5 13 - 14.5 ft	SB-31 03/01/2021 SB-31-19-20 19 - 20 ft	SB-32 03/08/2021 SB-32-7-8 7 - 8 ft	SB-33 03/03/2021 SB-33-5.5-6.5 5.5 - 6.5 ft	SB-34 03/01/2021 SB-34-5.5-6.5 5.5 - 6.5 ft
Analyte	CAS RN	Unit	SPM_RI_SATURAT ED-SOIL_SLS 2022.02	Screening Level Source					
Metals									
Arsenic	7440-38-2	mg/kg	7.3	SL-10	3.05 J	1.53 J	-	-	-
Barium	7440-39-3	mg/kg	8.26	SL-6		-			
Cadmium	7440-43-9	mg/kg	0.77	SL-10	0.05 J	< 0.12 U			
Chromium	7440-47-3	mg/kg	48.2	SL-10	15	9.89			
Copper Lead	7440-50-8 7439-92-1	mg/kg mg/kg	36.4 50	SL-10 SL-9	20 J 3.37 J	10.1 J 1.37 J			
Mercury	7439-97-6	mg/kg	0.07	SL-10	0.0285	< 0.0271 U			
Nickel	7440-02-0	mg/kg	48	SL-10	17.5	7.96			
Selenium	7782-49-2	mg/kg	0.3	SL-9		-	-		
Silver	7440-22-4	mg/kg	0.0163	SL-6		-			
Zinc	7440-66-6	mg/kg	85.1	SL-10	29.2	22.2	-		-
Butyl Tin Ions							•		•
Dibutyltin Ion	14488-53-0	mg/kg	1			-			
Monobutyltin	78763-54-9 1461-25-2	mg/kg						-	
Tetrabutyltin Tributyltin Ion	1461-25-2 36643-28-4	mg/kg mg/kg	0.000111	SL-7	 				
Polychlorinated Biphenyl Aroclors	JUU4J-Z0-4	mg/kg	0.000111	GL-1					
Aroclor 1016	12674-11-2	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	
Aroclor 1221	11104-28-2	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	-
Aroclor 1232	11141-16-5	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	
Aroclor 1242	53469-21-9	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	-
Aroclor 1248	12672-29-6	mg/kg			< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U	
Aroclor 1254	11097-69-1	mg/kg			< 0.004 U	0.0018 J	< 0.004 U	< 0.004 U	-
Aroclor 1260	11096-82-5	mg/kg			< 0.004 U	0.0008 J	< 0.004 U	< 0.004 U	
Aroclor 1262	37324-23-5	mg/kg			< 0.004 U	< 0.004 U < 0.004 U	< 0.004 U < 0.004 U	< 0.004 U	
Aroclor 1268 Total PCB Aroclors (ND=1/2 RL)	11100-14-4 T-PCBs1/2U	mg/kg mg/kg	5.49E-07	SL-6	< 0.004 U < 0.004 U	< 0.004 U 0.0166 J	< 0.004 U	< 0.004 U < 0.004 U	
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	5.49E-07	SL-6	< 0.004 U	0.00260 J	< 0.004 U	< 0.004 U	
Polychlorinated Biphenyl Congeners	11000	g/ng	0.102 07	<u> </u>	0.0010	0.002000			
Total PCB Congeners	T-PCBCong	mg/kg	5.49E-07	SL-6					
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg	3.47E-10	SL-6		-	-		-
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg	3.47E-10	SL-6					
Dioxins/Furans	T						1		1
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U CDF TEQ-1/2U	mg/kg	2E-06	SL-9 SL-9		<u></u>			
Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg mg/kg	2E-06 5.2E-06	SL-9 SL-10	-	-			
Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-00 DF-TEQ-1/2U	mg/kg	5.2E-06 5.2E-06	SL-10 SL-10				-	
Polycyclic Aromatic Hydrocarbons	DI -1EQ-1/20	mg/kg	0.2L-00	OL-10					
1-Methylnaphthalene	90-12-0	mg/kg	2.26	SL-7	0.745	< 0.0109 U			
2-Methylnaphthalene	91-57-6	mg/kg	0.0388	SL-7	0.284	< 0.00948 U			
Acenaphthene	83-32-9	mg/kg	0.0277	SL-7	0.00443 J	0.0048 J	-	-	-
Acenaphthylene	208-96-8	mg/kg	1.3	SL-8	0.00176 J	< 0.00498 U	-		
Anthracene	120-12-7	mg/kg	0.0511	SL-7	0.0017 J	< 0.00498 U			
Benzo(g,h,i)perylene	191-24-2 206-44-0	mg/kg	0.67	SL-8	0.0014 J < 0.00498 U	< 0.00498 U		-	-
Fluoranthene Fluorene	206-44-0 86-73-7	mg/kg mg/kg	0.0899 0.0294	SL-7 SL-7	< 0.00498 U 0.0072	< 0.00498 U < 0.00498 U			
Naphthalene	91-20-3	mg/kg	0.00207	SL-6	0.0749	< 0.00498 U	_		< 0.00612 U
Phenanthrene	85-01-8	mg/kg	1.5	SL-8	0.011	0.0204	_		
Pyrene	129-00-0	mg/kg	0.137	SL-7	0.00293 J	0.00279 J			
Benz(a)anthracene	56-55-3	mg/kg			0.00111 J	0.00167 J			
Benzo(a)pyrene	50-32-8	mg/kg	1.55E-05	SL-6	< 0.00498 U	0.00116 J			-
Benzo(b)fluoranthene	205-99-2	mg/kg			< 0.00498 U	0.0015 J	-	-	-
Benzo(j)fluoranthene	205-82-3	mg/kg			< 0.00498 U	0.0007 J			
Benzo(j,k)fluoranthene	Benz-jk-fluor	mg/kg			< 0.00498 U	 0.00400.11			
Benzo(k)fluoranthene Chrysene	207-08-9 218-01-9	mg/kg mg/kg	1		< 0.00498 U 0.00211 J	< 0.00498 U 0.00334 J			
Dibenzo(a,h)anthracene	53-70-3	mg/kg	1		< 0.00498 U	< 0.00334 J			
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	1		< 0.00498 U	< 0.00498 U			
Total Benzofluoranthenes	TOTBFA	mg/kg	3.2	SL-8	< 0.00996 U	< 0.00996 U			
Total HPAHs	T-HPAH	mg/kg	12	SL-8	0.00970 J	0.0123 J	-	-	-
Total LPAHs	T-LPAH	mg/kg	5.2	SL-8	0.101 J	0.0252 J			
Total PAHs (ND=0)	T-PAH	mg/kg			0.111 J	0.0375 J		-	-
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg	1.55E-05	SL-6	0.000132 J	0.00151 J			
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg	1.55E-05	SL-6	0.00362 J	0.00226 J	-		

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	B-01 11/17/2017 B-01-8.5-9.5 8.5 - 9.5 ft	B-02 11/17/2017 B-02-6.5-7 6.5 - 7 ft	B-03 11/17/2017 B-03-6.5-7 6.5 - 7 ft	B-04 11/17/2017 B-04-6.5-7 6.5 - 7 ft	MW-04 03/04/2021 MW-4-7-8 7 - 8 ft	MW-04 03/04/2021 MW-4-10.5-11.5 10.5 - 11.5 ft	MW-04 03/04/2021 MW-4-13.5-14.5 13.5 - 14.5 ft
Semivolatile Organic Compounds				Берит	0.0 - 0.0 11	0.5-710	0.5-710	0.5-710	7-011	10.5 - 11.510	13.3 - 14.3 10
1,2-Dinitrobenzene	528-29-0	mg/kg	8	SL-1							
1,2-Diphenylhydrazine	122-66-7	mg/kg	3.59E-05	SL-6	-		-		-		
1,3-Dinitrobenzene	99-65-0	mg/kg	8	SL-1	-	-	-		-		
1,4-Dinitrobenzene	100-25-4	mg/kg	8	SL-1			-		-		
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	2400	SL-1							
2,3,5,6-Tetrachlorophenol	935-95-5	mg/kg					-		-		
2,3-Dichloroaniline	608-27-5	mg/kg	0.005.05	01.0							
2,4,5-Trichlorophenol	95-95-4	mg/kg	6.98E-05	SL-6					< 0.0997 U	< 0.0997 U	< 0.1 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	0.401	SL-6					< 0.0997 U	< 0.0997 U	< 0.1 U
2,4-Dichlorophenol 2.4-Dimethylphenol	120-83-2 105-67-9	mg/kg mg/ka	0.00434 0.00227	SL-6 SL-7		-			< 0.0997 U 0.0376 J	< 0.0997 U < 0.0997 U	< 0.1 U < 0.1 U
							-		< 0.199 UJ	< 0.0997 U < 0.199 UJ	< 0.1 U < 0.2 UJ
2,4-Dinitrophenol 2.4-Dinitrotoluene	51-28-5 121-14-2	mg/kg	0.0287 0.000155	SL-6 SL-6			-		< 0.199 UJ < 0.0997 U	< 0.199 UJ < 0.0997 U	< 0.2 UJ < 0.1 U
2,6-Dinitrotoluene	606-20-2	mg/kg mg/kg	0.0654	SL-7			-		< 0.0997 U	< 0.0997 U	< 0.1 U
2-Chloronaphthalene	91-58-7	mg/kg	0.0034	SL-6		-			< 0.0199 U	< 0.0199 U	< 0.02 U
2-Chlorophenol	95-57-8	mg/kg	0.0115	SL-6					< 0.0199 U	< 0.0199 U	< 0.02 U
2-Methylphenol	95-48-7	mg/kg	0.00636	SL-7			_		< 0.0199 U	< 0.0199 U	< 0.02 U
2-Nitroaniline	88-74-4	mg/kg	292	SL-7					< 0.0199 U	< 0.0997 U	< 0.1 U
2-Nitrophenol	88-75-5	mg/kg	202	02-1					< 0.0199 U	< 0.0199 U	< 0.02 U
3 & 4 Methylphenol	65794-96-9	mg/kg									
3,3'-Dichlorobenzidine	91-94-1	mg/kg	2E-06	SL-6					< 0.997 U	< 0.0997 U	< 0.1 U
3-Nitroaniline	99-09-2	mg/kg		52.0					< 0.0997 U	< 0.0997 U	< 0.1 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.00728	SL-6					< 0.199 UJ	< 0.199 UJ	< 0.2 UJ
4-Bromophenyl phenyl ether	101-55-3	mg/kg	0.00720	02.0			-		< 0.0199 U	< 0.0199 U	< 0.02 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.028	SL-6	-	-	-		< 0.0997 U	< 0.0997 U	< 0.1 U
4-Chloroaniline	106-47-8	mg/kg	0.96	SL-7	-		-		< 0.0997 U	< 0.0997 U	< 0.1 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg							< 0.0199 U	< 0.0199 U	< 0.02 U
4-Methylphenol	106-44-5	mg/kg	0.0624	SL-7					< 0.0199 U	< 0.0199 U	< 0.02 U
4-Nitroaniline	100-01-6	mg/kg	30.5	SL-7					< 0.0997 U	< 0.0997 U	< 0.1 U
4-Nitrophenol	100-02-7	mg/kg	7	SL-9	-	-	-		< 0.0997 U	< 0.0997 U	< 0.1 U
Aniline	62-53-3	mg/kg	42.7	SL-7			-		-		
Benzidine	92-87-5	mg/kg	3.4E-08	SL-6			-				
Benzoic acid	65-85-0	mg/kg	0.169	SL-7					0.433 J	< 0.199 UJ	0.138 J
Benzyl alcohol	100-51-6	mg/kg	0.0174	SL-7					< 0.0199 U	< 0.0199 U	< 0.02 U
Benzyl butyl phthalate	85-68-7	mg/kg	0.000182	SL-6			-		< 0.0199 U	< 0.0199 U	< 0.02 U
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	0.333	SL-6			-		< 0.0199 U	< 0.0199 U	< 0.02 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg					-		< 0.0199 U	< 0.0199 U	< 0.02 U
Bis(2-chloroethyl) ether	111-44-4	mg/kg	2.18E-05	SL-6	<u>-</u>	<u>-</u>	-	<u></u>	< 0.0199 U	< 0.0199 U	< 0.02 U
bis(2-Chloroisopropyl)ether	39638-32-9	mg/kg	000	01.4							
Bis(2-ethylhexyl) adipate Bis(2-ethylhexyl) phthalate	103-23-1 117-81-7	mg/kg	833 0.00512	SL-1 SL-6		-			1.52	0.0373 J	0.617
	86-74-8	mg/kg mg/kg	0.00512	SL-0					< 0.0199 U	< 0.0199 U	< 0.02 U
Carbazole Dibenzofuran	132-64-9	mg/kg	0.0292	SL-7					0.248	0.00631	0.0714
Diethyl phthalate	84-66-2	mg/kg	0.0341	SL-7	-		_	-	< 0.0199 U	< 0.0199 U	0.0667
Dimethyl phthalate	131-11-3	mg/kg	0.0188	SL-7					< 0.0199 U	< 0.0199 U	< 0.007
Di-n-butyl phthalate	84-74-2	mg/kg	0.0149	SL-6					< 0.0199 U	< 0.0199 U	< 0.02 U
Di-n-octyl phthalate	117-84-0	mg/kg	0.327	SL-7			-		< 0.199 U	< 0.0199 U	< 0.02 U
Hexachlorobenzene	118-74-1	mg/kg	4.01E-07	SL-6					< 0.01 U	< 0.0025 U	< 0.00498 U
Hexachlorobutadiene	87-68-3	mg/kg	1.13E-05	SL-6					0.0115 J	< 0.0025 U	< 0.00498 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.00169	SL-6			-		< 0.0997 UJ	< 0.0997 UJ	< 0.1 UJ
Hexachloroethane	67-72-1	mg/kg	9.67E-06	SL-6			-		< 0.0199 U	< 0.0199 U	< 0.02 U
Isophorone	78-59-1	mg/kg	0.0387	SL-6			-		< 0.0199 U	< 0.0199 U	0.0688
Nitrobenzene	98-95-3	mg/kg	0.0406	SL-6	-	-	-		< 0.0199 U	< 0.0199 U	< 0.02 U
N-Nitrosodimethylamine	62-75-9	mg/kg	0.000105	SL-6		_			_	_	_
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	3.26E-05	SL-6			-		< 0.0199 U	< 0.0199 U	< 0.02 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.00161	SL-7					< 0.0199 U	< 0.0199 U	< 0.02 U
Pentachlorophenol	87-86-5	mg/kg	1.76E-06	SL-6					< 0.0997 UJ	< 0.0997 UJ	< 0.1 UJ
Phenol	108-95-2	mg/kg	0.0479	SL-7					< 0.0199 U	< 0.0199 U	< 0.02 U
Pyridine	110-86-1	mg/kg	36.4	SL-7							
Pesticides and Herbicides	T ====================================	*							1	1	0.00
2,4'-DDD	53-19-0	mg/kg							< 0.02 U	< 0.005 U	< 0.00997 U
2,4'-DDE	3424-82-6	mg/kg					-		< 8.88 U	< 0.005 U	< 2.49 U
2,4'-DDT	789-02-6	mg/kg	2 645 07	61.0					< 8.88 U	< 0.005 U	< 0.00997 U
4,4'-DDD	72-54-8	mg/kg	3.64E-07	SL-6					< 0.02 U	< 0.005 U	< 0.00997 U
4,4'-DDE	72-55-9 50-29-3	mg/kg	7.63E-08 8.14E-07	SL-6 SL-6		-	-		< 6.66 U < 11.1 U	< 0.005 U < 0.005 U	< 2.99 U < 2.99 U
4,4'-DDT Aldrin	50-29-3 309-00-2	mg/kg	8.14E-07 2.01E-09	SL-6 SL-6			-		< 11.1 U 7.46	< 0.005 U 0.0439	< 2.99 U 2.39
Aldrin	309-00-2	mg/kg	2.01E-09	SL-0					7.46	0.0439	2.39

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	MW-04 03/04/2021 MW-4-18-20 18 - 20 ft	MW-05 03/05/2021 MW-5-6-7 6 - 7 ft	MW-05 03/05/2021 MW-5-8-9.5 8 - 9.5 ft	MW-05 03/05/2021 MW-5-15-16 15 - 16 ft	MW-05 03/05/2021 MW-5-20-22.5 20 - 22.5 ft	MW-05 03/05/2021 MW-5-26.5-28 26.5 - 28 ft	MW-06 03/05/2021 MW-6-9 9 ft
Semivolatile Organic Compounds				Берит	10 - 20 11	0-7 IL	0 - 5.5 11	15-1611	20 - 22.5 IL	20.5 - 20 11	311
1.2-Dinitrobenzene	528-29-0	ma/ka	8	SL-1					-		
1,2-Diphenylhydrazine	122-66-7	mg/kg	3.59E-05	SL-6			-				-
1,3-Dinitrobenzene	99-65-0	mg/kg	8	SL-1			-			-	-
1,4-Dinitrobenzene	100-25-4	mg/kg	8	SL-1			-		-	-	
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	2400	SL-1							
2,3,5,6-Tetrachlorophenol	935-95-5	mg/kg				-	-		-	-	-
2,3-Dichloroaniline	608-27-5	mg/kg	2 225 25	21.2							
2,4,5-Trichlorophenol	95-95-4	mg/kg	6.98E-05	SL-6 SL-6	< 0.0999 U	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U	< 0.0998 U
2,4,6-Trichlorophenol 2,4-Dichlorophenol	88-06-2 120-83-2	mg/kg	0.401 0.00434	SL-6 SL-6	< 0.0999 U < 0.0999 U	< 0.0997 U < 0.0997 U	< 0.0996 U < 0.0996 U	< 0.1 U < 0.1 U	< 0.0997 U < 0.0997 U	< 0.0999 U < 0.0999 U	< 0.0998 U < 0.0998 U
2.4-Dichlorophenol	105-67-9	mg/kg mg/kg	0.00227	SL-0 SL-7	< 0.0999 U	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U	< 0.0998 U
2.4-Dinitrophenol	51-28-5	mg/kg	0.00227	SL-6	< 0.2 UJ	< 0.199 UJ	< 0.199 UJ	< 0.2 UJ	< 0.199 UJ	< 0.2 UJ	< 0.2 UJ
2.4-Dinitrotoluene	121-14-2	mg/kg	0.000155	SL-6	< 0.0999 U	< 0.199 UJ	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U	< 0.0998 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.0654	SL-7	< 0.0999 U	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U	< 0.0998 U
2-Chloronaphthalene	91-58-7	mg/kg	0.277	SL-6	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
2-Chlorophenol	95-57-8	mg/kg	0.0115	SL-6	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
2-Methylphenol	95-48-7	mg/kg	0.00636	SL-7	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
2-Nitroaniline	88-74-4	mg/kg	292	SL-7	< 0.0999 U	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U	< 0.0998 U
2-Nitrophenol	88-75-5	mg/kg			< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
3 & 4 Methylphenol	65794-96-9	mg/kg									
3,3'-Dichlorobenzidine	91-94-1	mg/kg	2E-06	SL-6	< 0.0999 U	< 0.997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U	< 0.0998 U
3-Nitroaniline	99-09-2	mg/kg			< 0.0999 U	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U	< 0.0998 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.00728	SL-6	< 0.2 U	< 0.199 UJ	< 0.199 UJ	< 0.2 U	< 0.199 U	< 0.2 U	< 0.2 U
4-Bromophenyl phenyl ether	101-55-3	mg/kg	0.000	21.2	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.028	SL-6	< 0.0999 U	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U	< 0.0998 U
4-Chloroaniline	106-47-8	mg/kg	0.96	SL-7	< 0.0999 U	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U	< 0.0998 U
4-Chlorophenyl phenyl ether	7005-72-3 106-44-5	mg/kg	0.0624	SL-7	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 UJ	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 UJ	< 0.02 U < 0.02 U
4-Methylphenol 4-Nitroaniline	100-44-5	mg/kg mg/kg	30.5	SL-7	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 UJ	< 0.0199 U	< 0.02 UJ < 0.0999 U	< 0.02 U
4-Nitrophenol	100-01-0	mg/kg	7	SL-9	< 0.0999 U	< 0.0997 U	< 0.0996 U	< 0.1 U	< 0.0997 U	< 0.0999 U	< 0.0998 U
Aniline	62-53-3	mg/kg	42.7	SL-7	~ 0.0999 U 	< 0.0997 U			< 0.0997 U		< 0.0996 U
Benzidine	92-87-5	mg/kg	3.4E-08	SL-6							-
Benzoic acid	65-85-0	mg/kg	0.169	SL-7	< 0.2 U	< 0.199 UJ	< 0.199 UJ	< 0.2 UJ	< 0.199 U	< 0.2 UJ	< 0.2 U
Benzyl alcohol	100-51-6	ma/ka	0.0174	SL-7	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
Benzyl butyl phthalate	85-68-7	mg/kg	0.000182	SL-6	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	0.333	SL-6	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg			< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
Bis(2-chloroethyl) ether	111-44-4	mg/kg	2.18E-05	SL-6	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
bis(2-Chloroisopropyl)ether	39638-32-9	mg/kg				-					-
Bis(2-ethylhexyl) adipate	103-23-1	mg/kg	833	SL-1							
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.00512	SL-6	< 0.0499 U	1.56	0.939 J	0.113	0.0438 J	< 0.05 U	< 0.0499 U
Carbazole	86-74-8	mg/kg	0.0000	0. 7	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
Dibenzofuran	132-64-9	mg/kg	0.0292 0.0341	SL-7	< 0.00498 U	0.211	0.0556	0.0113	0.00187 J	< 0.00499 U	0.00157 J
Diethyl phthalate	84-66-2 131-11-3	mg/kg	0.0341	SL-7 SL-7	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U	0.0496 < 0.02 U
Dimethyl phthalate Di-n-butyl phthalate	84-74-2	mg/kg mg/kg	0.0188	SL-7 SL-6	< 0.02 U	< 0.0199 U	< 0.0199 U	0.0092 J	< 0.0199 U	< 0.02 U	< 0.02 U
Di-n-octyl phthalate	117-84-0	mg/kg	0.327	SL-7	< 0.02 U	< 0.199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
Hexachlorobenzene	118-74-1	mg/kg	4.01E-07	SL-6	< 0.0005 U	0.0469	< 0.005 U	< 0.02 U	< 0.00249 U	< 0.005 U	< 0.005 U
Hexachlorobutadiene	87-68-3	mg/kg	1.13E-05	SL-6	< 0.0005 U	0.00612 J	< 0.005 U	< 0.00638 U	< 0.00249 U	< 0.0005 U	< 0.0005 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.00169	SL-6	< 0.0999 UJ	< 0.0997 UJ	< 0.0996 UJ	< 0.1 UJ	< 0.0997 UJ	< 0.0999 UJ	< 0.0998 UJ
Hexachloroethane	67-72-1	mg/kg	9.67E-06	SL-6	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
Isophorone	78-59-1	mg/kg	0.0387	SL-6	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
Nitrobenzene	98-95-3	mg/kg	0.0406	SL-6	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
N-Nitrosodimethylamine	62-75-9	mg/kg	0.000105	SL-6		_					
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	3.26E-05	SL-6	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.00161	SL-7	< 0.02 U	0.0995 J	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
Pentachlorophenol	87-86-5	mg/kg	1.76E-06	SL-6	< 0.0999 UJ	< 0.0997 UJ	< 0.0996 UJ	< 0.1 UJ	< 0.0997 U	< 0.0999 UJ	< 0.0998 UJ
Phenol	108-95-2	mg/kg	0.0479	SL-7	< 0.02 U	< 0.0199 U	< 0.0199 U	< 0.02 U	< 0.0199 U	< 0.02 U	< 0.02 U
Pyridine	110-86-1	mg/kg	36.4	SL-7							
Pesticides and Herbicides	53-19-0	m = // c =			< 0.001 U	< 0.02 U	< 0.44 U	< 0.00998 U	< 0.00498 U	< 0.001 U	< 0.001 U
		mg/kg			< 0.001 U < 0.001 U	< 0.02 U < 11.1 U	< 0.44 U < 2.22 U	< 0.00998 U < 0.00998 U	< 0.00498 U < 0.00498 U	< 0.001 U < 0.001 U	< 0.001 U < 0.001 U
2,4'-DDD					< 0.001 U						
2,4'-DDD 2,4'-DDE	3424-82-6	mg/kg	 		< 0.00111	< 10 O I I	< 2.22 LI	~ 0 000000 11	< 0.0040011	< 0.001 II	- 0.001 II
2,4'-DDD 2,4'-DDE 2,4'-DDT	789-02-6	mg/kg	3.645-07	SI -6	< 0.001 U	< 19.9 U	< 2.22 U	< 0.00998 U	< 0.00498 U	< 0.001 U	< 0.001 U
2,4-DDD 2,4-DDE 2,4-DDT 4,4-DDD	789-02-6 72-54-8	mg/kg mg/kg	3.64E-07 7.63E-08	SL-6 SL-6	< 0.001 U	< 0.02 U	< 0.01 U	< 0.00998 U	< 0.00498 U	< 0.001 U	< 0.001 U
2,4'-DDD 2,4'-DDE 2,4'-DDT	789-02-6	mg/kg	3.64E-07 7.63E-08 8.14E-07	SL-6 SL-6 SL-6							

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	MW-06 03/05/2021 MW-6-18-20 18 - 20 ft	MW-07 03/09/2021 MW-7-17-19 17 - 19 ft	MW-08 03/09/2021 MW-8-8-9 8 - 9 ft	MW-08 03/09/2021 MW-8-18-20 18 - 20 ft	MW-10 03/08/2021 MW-10-5.5-6.5 5.5 - 6.5 ft	MW-11 03/08/2021 MW-11-6-7 6 - 9 ft	MW-12 03/03/2021 MW-12-9.5-10.5 9.5 - 10.5 ft
Semivolatile Organic Compounds				Бериі	10-2011	17-1010	1 0-31t	10-2011	J.J - 0.5 IL	0-310	3.3 - 10.3 10
1,2-Dinitrobenzene	528-29-0	mg/kg	8	SL-1							
1,2-Diphenylhydrazine	122-66-7	mg/kg	3.59E-05	SL-6			-				
1,3-Dinitrobenzene	99-65-0	mg/kg	8	SL-1							
1,4-Dinitrobenzene	100-25-4	mg/kg	8	SL-1					-	-	
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	2400	SL-1		-	-		-	-	
2,3,5,6-Tetrachlorophenol	935-95-5	mg/kg							-	-	
2,3-Dichloroaniline	608-27-5	mg/kg								-	
2,4,5-Trichlorophenol	95-95-4	mg/kg	6.98E-05	SL-6	< 0.1 U		< 0.0995 U		< 0.0998 U	< 0.0995 U	
2,4,6-Trichlorophenol	88-06-2 120-83-2	mg/kg	0.401	SL-6 SL-6	< 0.1 U		< 0.0995 U		< 0.0998 U	< 0.0995 U	-
2,4-Dichlorophenol 2.4-Dimethylphenol	120-83-2	mg/kg mg/kg	0.00434	SL-6 SL-7	< 0.1 U		< 0.0995 U < 0.0995 U		< 0.0998 U < 0.0998 U	< 0.0995 U < 0.0995 U	
2,4-Dinternylphenol	51-28-5	mg/kg	0.00227	SL-6	< 0.1 U	-	< 0.199 UJ		< 0.0996 U	< 0.0995 U	-
2,4-Dinitrophenoi 2,4-Dinitrotoluene	121-14-2	mg/kg	0.0287	SL-6	< 0.2 UJ		< 0.0995 U		< 0.2 03 < 0.0998 U	< 0.0995 U	
2,6-Dinitrotoluene	606-20-2	mg/kg	0.0654	SL-7	< 0.1 U		< 0.0995 U		< 0.0998 U	< 0.0995 U	
2-Chloronaphthalene	91-58-7	ma/ka	0.277	SL-6	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
2-Chlorophenol	95-57-8	mg/kg	0.0115	SL-6	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
2-Methylphenol	95-48-7	mg/kg	0.00636	SL-7	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
2-Nitroaniline	88-74-4	mg/kg	292	SL-7	< 0.1 U		< 0.0995 U		< 0.0998 U	< 0.0995 U	
2-Nitrophenol	88-75-5	mg/kg			< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
3 & 4 Methylphenol	65794-96-9	mg/kg									
3,3'-Dichlorobenzidine	91-94-1	mg/kg	2E-06	SL-6	< 0.1 U		< 0.0995 U		< 0.0998 U	< 0.0995 U	
3-Nitroaniline	99-09-2	mg/kg			< 0.1 U		< 0.0995 U		< 0.0998 U	< 0.0995 U	
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.00728	SL-6	< 0.2 U		< 0.199 U		< 0.2 U	< 0.199 U	
4-Bromophenyl phenyl ether	101-55-3	mg/kg			< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.028	SL-6	< 0.1 U	-	< 0.0995 U		< 0.0998 U	< 0.0995 U	
4-Chloroaniline	106-47-8	mg/kg	0.96	SL-7	< 0.1 U	-	< 0.0995 U		< 0.0998 U	< 0.0995 U	-
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg			< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
4-Methylphenol	106-44-5	mg/kg	0.0624	SL-7	< 0.02 U		< 0.0199 U		< 0.02 UJ	< 0.0199 UJ	
4-Nitroaniline	100-01-6	mg/kg	30.5	SL-7	< 0.1 U		< 0.0995 U		< 0.0998 U	< 0.0995 U	
4-Nitrophenol Aniline	100-02-7	mg/kg	7 42.7	SL-9 SL-7	< 0.1 U		< 0.0995 U		< 0.0998 U 	< 0.0995 U	
Benzidine	62-53-3 92-87-5	mg/kg mg/kg	3.4E-08	SL-6						-	
Benzoic acid	65-85-0	mg/kg	0.169	SL-7	< 0.2 U		< 0.199 UJ		< 0.2 UJ	< 0.199 UJ	
Benzyl alcohol	100-51-6	mg/kg	0.0174	SL-7	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
Benzyl butyl phthalate	85-68-7	mg/kg	0.000182	SL-6	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	0.333	SL-6	< 0.02 U	-	< 0.0199 U		< 0.02 U	< 0.0199 U	
Bis(2-chloroethoxy)methane	111-91-1	mg/kg			< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
Bis(2-chloroethyl) ether	111-44-4	mg/kg	2.18E-05	SL-6	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
bis(2-Chloroisopropyl)ether	39638-32-9	mg/kg					-		-	-	
Bis(2-ethylhexyl) adipate	103-23-1	mg/kg	833	SL-1							
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.00512	SL-6	< 0.05 U		< 0.0497 U		< 0.0499 U	< 0.0497 U	
Carbazole	86-74-8	mg/kg			< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
Dibenzofuran	132-64-9	mg/kg	0.0292	SL-7	< 0.005 U		< 0.00497 U		< 0.00498 U	< 0.00497 U	
Diethyl phthalate	84-66-2	mg/kg	0.0341	SL-7	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
Dimethyl phthalate	131-11-3 84-74-2	mg/kg	0.0188 0.0149	SL-7 SL-6	< 0.02 U < 0.02 U		< 0.0199 U < 0.0199 U		< 0.02 U < 0.02 U	< 0.0199 U < 0.0199 U	
Di-n-butyl phthalate Di-n-octyl phthalate	117-84-0	mg/kg mg/kg	0.327	SL-7	< 0.02 U	-	< 0.0199 U		< 0.02 U	< 0.0199 U	-
Hexachlorobenzene	118-74-1	mg/kg	4.01E-07	SL-6	< 0.0005 U		< 0.0005 U		< 0.02 U	< 0.0199 U	-
Hexachlorobutadiene	87-68-3	mg/kg	1.13E-05	SL-6	< 0.0005 U		< 0.0005 U		< 0.02 U	< 0.00563 U	
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.00169	SL-6	< 0.1 UJ		< 0.0995 UJ		< 0.0998 UJ	< 0.0995 UJ	
Hexachloroethane	67-72-1	mg/kg	9.67E-06	SL-6	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
Isophorone	78-59-1	mg/kg	0.0387	SL-6	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
Nitrobenzene	98-95-3	mg/kg	0.0406	SL-6	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
N-Nitrosodimethylamine	62-75-9	mg/kg	0.000105	SL-6		_			_	_	_
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	3.26E-05	SL-6	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.00161	SL-7	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
Pentachlorophenol	87-86-5	mg/kg	1.76E-06	SL-6	< 0.1 UJ		< 0.0995 UJ		< 0.0998 UJ	< 0.0995 UJ	-
Phenol	108-95-2	mg/kg	0.0479	SL-7	< 0.02 U		< 0.0199 U		< 0.02 U	< 0.0199 U	
Pyridine	110-86-1	mg/kg	36.4	SL-7							
Pesticides and Herbicides	E2 40 0	ma e- H	1		z 0 004 II	ı	40.00411	ı	1		1
2,4'-DDD	53-19-0	mg/kg			< 0.001 U < 0.001 U		< 0.001 U < 0.001 U				
2,4'-DDE 2,4'-DDT	3424-82-6 789-02-6	mg/kg mg/kg			< 0.001 U < 0.001 U		< 0.001 U < 0.001 U				
4,4'-DDD	789-02-6	mg/kg mg/kg	3.64E-07	SL-6	< 0.001 U		< 0.001 U			-	
4.4'-DDE	72-54-6	mg/kg	7.63E-08	SL-6	< 0.001 U		< 0.001 U				
4.4'-DDE 4.4'-DDT	50-29-3	mg/kg	8.14E-07	SL-6	< 0.001 U		< 0.001 U	-			
Aldrin	309-00-2	mg/kg	2.01E-09	SL-6	< 0.001 U		< 0.001 U				
Prison in	303-00-2	l liig/kg	2.01L-03	OL-0	0.00000		V 0.0003 U	·	!		· -

Table B.2

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	MW-13 03/01/2021 MW-13-9.5-10.5 9.5 - 10.5 ft	MW-13 03/01/2021 MW-13-18-19.5 18 - 19.5 ft	SB-01 09/27/2007 SB-01-9 9 - 11 ft	SB-02 09/28/2007 SB-02-9 9 - 11 ft	SB-03 09/27/2007 SB-03-7 7 - 9 ft	SB-03 09/27/2007 SB-03-13.5 14 - 16 ft	SB-04 09/27/2007 SB-04-8 8 - 10 ft
Semivolatile Organic Compounds				Берит	0.0 - 10.0 It	10 - 10.0 10	J-1110	U - 11 K	7-010	14-1010	0 - 10 10
1,2-Dinitrobenzene	528-29-0	mg/kg	8	SL-1					-		
1,2-Diphenylhydrazine	122-66-7	mg/kg	3.59E-05	SL-6							
1,3-Dinitrobenzene	99-65-0	mg/kg	8	SL-1			-		-		
1,4-Dinitrobenzene	100-25-4	mg/kg	8	SL-1							
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	2400	SL-1		-	-		-		
2,3,5,6-Tetrachlorophenol	935-95-5	mg/kg					-		-		
2,3-Dichloroaniline	608-27-5 95-95-4	mg/kg	6.98E-05	SL-6							
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	95-95-4 88-06-2	mg/kg	0.401	SL-6			-		-		
2,4-Dichlorophenol	120-83-2	mg/kg mg/kg	0.00434	SL-6		-	-		-		-
2,4-Dimethylphenol	105-67-9	mg/kg	0.00434	SL-7			< 0.05 R	< 0.05 R	< 0.05 R	< 0.05 R	< 0.05 R
2.4-Dinitrophenol	51-28-5	mg/kg	0.0287	SL-6						- 0.00 10	
2.4-Dinitrotoluene	121-14-2	mg/kg	0.000155	SL-6							
2,6-Dinitrotoluene	606-20-2	mg/kg	0.0654	SL-7		-	-		-		
2-Chloronaphthalene	91-58-7	mg/kg	0.277	SL-6							
2-Chlorophenol	95-57-8	mg/kg	0.0115	SL-6							
2-Methylphenol	95-48-7	mg/kg	0.00636	SL-7		_	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U
2-Nitroaniline	88-74-4	mg/kg	292	SL-7		-			-		
2-Nitrophenol	88-75-5	mg/kg					-		-		-
3 & 4 Methylphenol	65794-96-9	mg/kg									
3,3'-Dichlorobenzidine	91-94-1	mg/kg	2E-06	SL-6							
3-Nitroaniline	99-09-2	mg/kg				-	-		-		
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.00728	SL-6							
4-Bromophenyl phenyl ether	101-55-3	mg/kg					-				
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.028	SL-6							
4-Chloroaniline	106-47-8	mg/kg	0.96	SL-7			-		-		
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	0.0004	01.7							
4-Methylphenol 4-Nitroaniline	106-44-5 100-01-6	mg/kg	0.0624	SL-7			< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	0.0022
4-Nitrophenol	100-01-6	mg/kg mg/kg	30.5 7	SL-7 SL-9							
Aniline	62-53-3	mg/kg	42.7	SL-9 SL-7			-				
Benzidine	92-87-5	mg/kg	3.4E-08	SL-6							
Benzoic acid	65-85-0	mg/kg	0.169	SL-7			< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Benzyl alcohol	100-51-6	mg/kg	0.0174	SL-7			< 0.02 U	0.0077	< 0.02 U	< 0.02 U	< 0.02 U
Benzyl butyl phthalate	85-68-7	ma/ka	0.000182	SL-6		-	< 0.01 U	0.0052	< 0.01 U	< 0.0099 U	< 0.01 U
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	0.333	SL-6		-			-		
Bis(2-chloroethoxy)methane	111-91-1	mg/kg				-	-		-		
Bis(2-chloroethyl) ether	111-44-4	mg/kg	2.18E-05	SL-6							
bis(2-Chloroisopropyl)ether	39638-32-9	mg/kg				-	-		-		-
Bis(2-ethylhexyl) adipate	103-23-1	mg/kg	833	SL-1		-	-		-		-
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.00512	SL-6			< 0.0095 U	< 0.035 U	< 0.014 U	< 0.012 U	< 0.1 U
Carbazole	86-74-8	mg/kg									
Dibenzofuran	132-64-9	mg/kg	0.0292	SL-7	< 0.00495 U	-	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U
Diethyl phthalate	84-66-2	mg/kg	0.0341	SL-7			< 0.01 U	< 0.0021 U	< 0.01 U	< 0.0019 U	< 0.0023 U
Dimethyl phthalate	131-11-3	mg/kg	0.0188	SL-7			< 0.01 U	0.026	< 0.01 U	< 0.0099 U	< 0.01 U
Di-n-butyl phthalate	84-74-2	mg/kg	0.0149	SL-6			< 0.011 U	< 0.017 U	< 0.016 U	< 0.019 U	< 0.019 U
Di-n-octyl phthalate	117-84-0 118-74-1	mg/kg	0.327 4.01E-07	SL-7 SL-6			< 0.01 U < 0.01 U	< 0.01 U < 0.01 U	< 0.01 U < 0.01 U	< 0.0099 U < 0.0099 U	< 0.01 U < 0.01 U
Hexachlorobenzene Hexachlorobutadiene	118-74-1 87-68-3	mg/kg mg/kg	4.01E-07 1.13E-05	SL-6 SL-6	< 0.00627 U	< 0.00653 U	< 0.01 U	< 0.01 U < 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U < 0.01 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.00169	SL-6	- U.UUUZI U						
Hexachloroethane	67-72-1	mg/kg	9.67E-06	SL-6			-				
Isophorone	78-59-1	mg/kg	0.0387	SL-6							
Nitrobenzene	98-95-3	mg/kg	0.0406	SL-6							
N-Nitrosodimethylamine	62-75-9	mg/kg	0.000105	SL-6					_		
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	3.26E-05	SL-6					-		
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.00161	SL-7			< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U
Pentachlorophenol	87-86-5	mg/kg	1.76E-06	SL-6		_	< 0.1 U	0.041	0.028	< 0.099 U	< 0.1 U
Phenol	108-95-2	mg/kg	0.0479	SL-7		-	< 0.031 U	< 0.02 U	< 0.031 U	< 0.026 U	< 0.035 U
Pvridine	110-86-1	mg/kg	36.4	SL-7		-	-		-	-	-
Pesticides and Herbicides		mg/kg					< 0.00099 U	0.0023 J	< 0.0019 U	< 0.00099 U	< 0.001 U
2,4'-DDD	53-19-0										
2,4'-DDD 2,4'-DDE	3424-82-6	mg/kg					< 0.00099 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.001 U
2,4'-DDD 2,4'-DDE 2,4'-DDT	3424-82-6 789-02-6	mg/kg mg/kg					< 0.00099 U	0.0012 J	< 0.00099 U	< 0.00099 U	< 0.001 U
2,4'-DDD 2,4'-DDE 2,4'-DDT 4,4'-DDD	3424-82-6 789-02-6 72-54-8	mg/kg mg/kg mg/kg	3.64E-07	SL-6			< 0.00099 U < 0.00099 U	0.0012 J 0.0013	< 0.00099 U 0.00035 J	< 0.00099 U < 0.00099 U	< 0.001 U 0.00022
2,4'-DDD 2,4'-DDE 2,4'-DDT	3424-82-6 789-02-6	mg/kg mg/kg	3.64E-07 7.63E-08 8.14E-07	SL-6 SL-6 SL-6			< 0.00099 U	0.0012 J	< 0.00099 U	< 0.00099 U	< 0.001 U

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date	SB-05 09/27/2007	SB-06 09/28/2007	SB-07 09/28/2007	SB-08 09/27/2007	SB-09 09/27/2007	SB-10 09/28/2007	SB-13 10/01/2007
				Sample Depth	SB-05-8 8 - 10 ft	SB-06-8 8 - 10 ft	SB-07-9 9 - 11 ft	SB-08-9 9 - 11 ft	SB-09-10 10 - 12 ft	SB-10-14 14 - 16 ft	SB-13-7 7 - 9 ft
Semivolatile Organic Compounds				Берш	0-1011	0-1011	J-1111	3-1111	10-1210	14-1010	7-311
1,2-Dinitrobenzene	528-29-0	mg/kg	8	SL-1							
1,2-Diphenylhydrazine	122-66-7	mg/kg	3.59E-05	SL-6							
1,3-Dinitrobenzene	99-65-0	mg/kg	8	SL-1							-
1,4-Dinitrobenzene	100-25-4	mg/kg	8	SL-1				-			-
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	2400	SL-1							
2,3,5,6-Tetrachlorophenol	935-95-5	mg/kg									
2,3-Dichloroaniline	608-27-5	mg/kg	2 225 25	01.0							
2,4,5-Trichlorophenol	95-95-4	mg/kg	6.98E-05 0.401	SL-6						-	
2,4,6-Trichlorophenol 2.4-Dichlorophenol	88-06-2 120-83-2	mg/kg ma/ka	0.401	SL-6 SL-6							
2.4-Dichlorophenol	105-67-9	mg/kg	0.00434	SL-7	< 0.05 R	< 0.049 R	< 0.05 R	< 0.05 R	< 0.049 R	< 0.05 R	< 0.94 R
2,4-Dinitrophenol	51-28-5	mg/kg	0.00227	SL-6	V 0.03 IV	V 0.043 IX	V 0.03 IV	V 0.05 IV	V 0.043 IX	V 0.03 IV	V 0.34 IV
2,4-Dinitrotoluene	121-14-2	mg/kg	0.000155	SL-6							
2,6-Dinitrotoluene	606-20-2	mg/kg	0.0654	SL-7							
2-Chloronaphthalene	91-58-7	mg/kg	0.277	SL-6							-
2-Chlorophenol	95-57-8	mg/kg	0.0115	SL-6							
2-Methylphenol	95-48-7	mg/kg	0.00636	SL-7	< 0.01 U	< 0.0098 U	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U
2-Nitroaniline	88-74-4	mg/kg	292	SL-7		-					-
2-Nitrophenol	88-75-5	mg/kg									-
3 & 4 Methylphenol	65794-96-9	mg/kg									
3,3'-Dichlorobenzidine	91-94-1	mg/kg	2E-06	SL-6			-	-	-	-	
3-Nitroaniline	99-09-2	mg/kg									
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.00728	SL-6							-
4-Bromophenyl phenyl ether	101-55-3	mg/kg	0.000	01.0							
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.028	SL-6							
4-Chloroaniline	106-47-8	mg/kg	0.96	SL-7							-
4-Chlorophenyl phenyl ether 4-Methylphenol	7005-72-3 106-44-5	mg/kg mg/kg	0.0624	SL-7	 < 0.01 U	 < 0.0098 U	< 0.0099 U	 < 0.0099 U	 < 0.0098 U	 < 0.01 U	< 0.19 U
4-Nitroaniline	100-44-5	mg/kg	30.5	SL-7				< 0.0099 U			
4-Nitrophenol	100-01-0	mg/kg	7	SL-9		-				_	
Aniline	62-53-3	mg/kg	42.7	SL-7							-
Benzidine	92-87-5	mg/kg	3.4E-08	SL-6		-				-	-
Benzoic acid	65-85-0	mg/kg	0.169	SL-7	0.19	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 3.8 U
Benzyl alcohol	100-51-6	mg/kg	0.0174	SL-7	< 0.02 U	< 0.02 U	< 0.02 U	0.0041	< 0.02 U	< 0.02 U	< 0.38 U
Benzyl butyl phthalate	85-68-7	mg/kg	0.000182	SL-6	< 0.01 U	< 0.0098 U	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	0.333	SL-6						-	
Bis(2-chloroethoxy)methane	111-91-1	mg/kg						-			
Bis(2-chloroethyl) ether	111-44-4	mg/kg	2.18E-05	SL-6						-	-
bis(2-Chloroisopropyl)ether	39638-32-9	mg/kg									-
Bis(2-ethylhexyl) adipate	103-23-1	mg/kg	833	SL-1							
Bis(2-ethylhexyl) phthalate	117-81-7 86-74-8	mg/kg mg/kg	0.00512	SL-6	< 0.1 U	< 0.018 U	< 0.099 U	< 0.012 U	< 0.011 U	< 0.021 U	< 1.9 U
Carbazole Dibenzofuran	132-64-9	mg/kg	0.0292	SL-7	< 0.01 U	< 0.0098 U	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U
Diethyl phthalate	84-66-2	mg/kg	0.0292	SL-7	< 0.01 U	< 0.0036 U	< 0.0039 U	< 0.003 U	< 0.0030 U	< 0.0021 U	< 0.19 U
Dimethyl phthalate	131-11-3	mg/kg	0.0341	SL-7	< 0.01 U	< 0.0036 U	< 0.0019 U	< 0.009 U	< 0.0023 U	0.00210	< 0.19 U
Di-n-butyl phthalate	84-74-2	mg/kg	0.0149	SL-6	< 0.02 U	< 0.011 U	< 0.0095 U	< 0.012 U	< 0.02 U	< 0.11 U	< 0.38 U
Di-n-octyl phthalate	117-84-0	mg/kg	0.327	SL-7	< 0.01 U	< 0.0098 U	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U
Hexachlorobenzene	118-74-1	mg/kg	4.01E-07	SL-6	< 0.01 U	< 0.0098 U	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U
Hexachlorobutadiene	87-68-3	mg/kg	1.13E-05	SL-6	< 0.01 U	< 0.0098 U	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.00169	SL-6				-			
Hexachlorocyclopentadiene Hexachloroethane	77-47-4 67-72-1	mg/kg mg/kg	9.67E-06	SL-6							
Hexachlorocyclopentadiene Hexachloroethane Isophorone	77-47-4 67-72-1 78-59-1	mg/kg mg/kg mg/kg	9.67E-06 0.0387	SL-6 SL-6						-	
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene	77-47-4 67-72-1 78-59-1 98-95-3	mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406	SL-6 SL-6 SL-6	 	 	 		 		
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine	77-47-4 67-72-1 78-59-1 98-95-3 62-75-9	mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105	SL-6 SL-6 SL-6 SL-6				 		 	
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine N-Nitrosodi-n-propylamine	77-47-4 67-72-1 78-59-1 98-95-3 62-75-9 621-64-7	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105 3.26E-05	SL-6 SL-6 SL-6 SL-6 SL-6				 		 	
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine N-Nitroso-din-propylamine N-Nitrosodiphenylamine	77-47-4 67-72-1 78-59-1 98-95-3 62-75-9 621-64-7 86-30-6	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105 3.26E-05 0.00161	SL-6 SL-6 SL-6 SL-6 SL-6 SL-7	 < 0.01 U	 < 0.0098 U	 < 0.0099 U	 < 0.0099 U	 < 0.0098 U	 < 0.01 U	 < 0.19 U
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine Pentachlorophenol	77-47-4 67-72-1 78-59-1 98-95-3 62-75-9 621-64-7 86-30-6 87-86-5	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105 3.26E-05 0.00161 1.76E-06	SL-6 SL-6 SL-6 SL-6 SL-6 SL-7 SL-6	 < 0.01 U	 < 0.0098 U < 0.098 U	 < 0.0099 U < 0.099 U	 < 0.0099 U < 0.099 U	 < 0.0098 U < 0.098 U	 < 0.01 U 0.079	 < 0.19 U < 1.9 U
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine Pentachlorophenol Phenol	77-47-4 67-72-1 78-59-1 98-95-3 62-75-9 621-64-7 86-30-6 87-86-5 108-95-2	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105 3.26E-05 0.00161 1.76E-06 0.0479	SL-6 SL-6 SL-6 SL-6 SL-6 SL-7 SL-6 SL-7	 < 0.01 U < 0.1 U < 0.045 U			 < 0.0099 U < 0.099 U < 0.024 U		 < 0.01 U 0.079 < 0.014 U	 < 0.19 U < 1.9 U < 0.57 U
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine Pentachlorophenol Phenol Pyridine	77-47-4 67-72-1 78-59-1 98-95-3 62-75-9 621-64-7 86-30-6 87-86-5	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105 3.26E-05 0.00161 1.76E-06	SL-6 SL-6 SL-6 SL-6 SL-6 SL-7 SL-6	 < 0.01 U	 < 0.0098 U < 0.098 U	 < 0.0099 U < 0.099 U	 < 0.0099 U < 0.099 U	 < 0.0098 U < 0.098 U	 < 0.01 U 0.079	 < 0.19 U < 1.9 U
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine Pentachlorophenol Phenol	77-47-4 67-72-1 78-59-1 98-95-3 62-75-9 621-64-7 86-30-6 87-86-5 108-95-2	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105 3.26E-05 0.00161 1.76E-06 0.0479	SL-6 SL-6 SL-6 SL-6 SL-6 SL-7 SL-6 SL-7	 < 0.01 U < 0.1 U < 0.045 U			 < 0.0099 U < 0.099 U < 0.024 U		 < 0.01 U 0.079 < 0.014 U	 < 0.19 U < 1.9 U < 0.57 U
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine N-Nitrosodin-propylamine N-Nitrosodiphenylamine Pentachlorophenol Phenol Pyridine Pesticides and Herbicides	77-47-4 67-72-1 78-59-1 98-95-3 62-75-9 621-64-7 86-30-6 87-86-5 108-95-2 110-86-1	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105 3.26E-05 0.00161 1.76E-06 0.0479	SL-6 SL-6 SL-6 SL-6 SL-6 SL-7 SL-6 SL-7				 < 0.0099 U < 0.099 U < 0.024 U			 < 0.19 U < 1.9 U < 0.57 U
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine N-Nitrosodin-propylamine N-Nitrosodiphenylamine Pentachlorophenol Phenol Pyridine Pesticides and Herbicides 2,4-ODD	77-47-4 67-72-1 78-59-1 98-95-3 62-75-9 621-64-7 86-30-6 87-86-5 108-95-2 110-86-1	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105 3.26E-05 0.00161 1.76E-06 0.0479	SL-6 SL-6 SL-6 SL-6 SL-6 SL-7 SL-6 SL-7			 < 0.0099 U < 0.099 U < 0.016 U	 < 0.0099 U < 0.099 U < 0.024 U 			 < 0.19 U < 1.9 U < 0.57 U < 0.28 U
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine N-Nitrosodin-propylamine N-Nitrosodiphenylamine Pentachlorophenol Phenol Pyridine Pesticides and Herbicides 2,4'-DDE 2,4'-DDE 2,4'-DDT 4,4'-DDD	77-47-4 67-72-1 78-59-1 98-95-3 62-75-9 621-64-7 86-30-6 87-86-5 108-95-2 110-86-1 53-19-0 3424-82-6 789-02-6 72-54-8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105 3.26E-05 0.00161 1.76E-06 0.0479 36.4	SL-6 SL-6 SL-6 SL-6 SL-6 SL-7 SL-7 SL-7 SL-7							
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine N-Nitrosodin-n-propylamine N-Nitrosodiphenylamine Pentachlorophenol Phenol Pyridine Pesticides and Herbicides 2,4*-DDD 2,4*-DDT 4,4*-DDT 4,4*-DDD	77-47-4 67-72-1 78-59-1 98-95-3 62-76-9 621-64-7 86-30-6 87-86-5 108-95-2 110-86-1 53-19-0 3424-82-6 789-02-6 72-54-8 72-55-9	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105 3.26E-05 0.00161 1.76E-06 0.0479 36.4	SL-6 SL-6 SL-6 SL-6 SL-6 SL-7 SL-7 SL-7 SL-7							
Hexachlorocyclopentadiene Hexachloroethane Isophorone Nitrobenzene N-Nitrosodimethylamine N-Nitrosodin-propylamine N-Nitrosodiphenylamine Pentachlorophenol Phenol Pyridine Pesticides and Herbicides 2,4'-DDE 2,4'-DDE 2,4'-DDT 4,4'-DDD	77-47-4 67-72-1 78-59-1 98-95-3 62-75-9 621-64-7 86-30-6 87-86-5 108-95-2 110-86-1 53-19-0 3424-82-6 789-02-6 72-54-8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	9.67E-06 0.0387 0.0406 0.000105 3.26E-05 0.00161 1.76E-06 0.0479 36.4	SL-6 SL-6 SL-6 SL-6 SL-6 SL-7 SL-7 SL-7 SL-7							

Table B.2

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-14 10/01/2007 SB-14-7.5 8 - 10 ft	SB-17 07/27/2011 SB17-10.0-072711 10 - 10 ft	SB-18A 07/27/2011 SB18A-9.0-072711 9 - 9 ft	SB-19 07/28/2011 SB19-8.0-072811 8 - 8 ft	SB-20A 07/27/2011 SB20A-8.5-072711 8.5 - 8.5 ft	SB-21 07/27/2011 SB21-9.0-072711 9 - 9 ft	SB-22 07/27/2011 SB22-10.0-072711 10 - 10 ft
Semivolatile Organic Compounds				Борал	<u> </u>			7 7.0	0.0 0.0 1.	,	10 10 11
1,2-Dinitrobenzene	528-29-0	mg/kg	8	SL-1		-		-		< 0.4 U	< 0.43 U
1,2-Diphenylhydrazine	122-66-7	mg/kg	3.59E-05	SL-6		-				< 0.4 U	< 0.43 U
1,3-Dinitrobenzene	99-65-0	mg/kg	8	SL-1		-		-		< 0.4 U	< 0.43 U
1,4-Dinitrobenzene	100-25-4	mg/kg	8	SL-1		-				< 0.4 U	< 0.43 U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	2400	SL-1				-		< 0.4 U	< 0.43 U
2,3,5,6-Tetrachlorophenol 2,3-Dichloroaniline	935-95-5	mg/kg				-		-		< 0.4 U < 0.4 U	< 0.43 U
2,4.5-Trichlorophenol	608-27-5 95-95-4	mg/kg mg/kg	6.98E-05	SL-6		-		-		< 0.4 U	< 0.43 U < 0.43 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	0.401	SL-6						< 0.4 U	< 0.43 U
2,4-Dichlorophenol	120-83-2	mg/kg	0.00434	SL-6		-				< 0.4 U	< 0.43 U
2,4-Dimethylphenol	105-67-9	mg/kg	0.00227	SL-7	< 5 R	-		-		< 4 U	< 4.3 U
2,4-Dinitrophenol	51-28-5	mg/kg	0.0287	SL-6				-		2.3	< 2.2 U
2.4-Dinitrotoluene	121-14-2	mg/kg	0.000155	SL-6				-		< 0.4 U	< 0.43 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.0654	SL-7				-		< 0.4 U	< 0.43 U
2-Chloronaphthalene	91-58-7	mg/kg	0.277	SL-6	-	-	-	-	-	< 0.4 U	< 0.43 U
2-Chlorophenol	95-57-8	mg/kg	0.0115	SL-6		-		-	-	< 0.4 U	< 0.43 U
2-Methylphenol	95-48-7	mg/kg	0.00636	SL-7	<1U					< 0.4 U	< 0.43 U
2-Nitroaniline	88-74-4	mg/kg	292	SL-7		-		-		< 0.4 U	< 0.43 U
2-Nitrophenol	88-75-5	mg/kg					-	-		< 0.4 U	< 0.43 U
3 & 4 Methylphenol	65794-96-9	mg/kg				-		-		< 0.4 U	< 0.43 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	2E-06	SL-6		-				< 4 U	< 4.3 U
3-Nitroaniline	99-09-2	mg/kg								< 0.4 U	< 0.43 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.00728	SL-6						< 2 U	< 2.2 U
4-Bromophenyl phenyl ether	101-55-3 59-50-7	mg/kg	0.028	SL-6						< 0.4 U < 0.4 U	< 0.43 U < 0.43 U
4-Chloro-3-methylphenol	106-47-8	mg/kg	0.028	SL-6 SL-7		-				< 0.4 U	< 0.43 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg mg/kg	0.96	SL-7				-		< 0.4 U	< 0.43 U
4-Methylphenol	106-44-5	mg/kg	0.0624	SL-7	<1U				-	V 0.4 U	V 0.43 U
4-Nitroaniline	100-44-5	mg/kg	30.5	SL-7						< 0.4 U	< 0.43 U
4-Nitrophenol	100-02-7	mg/kg	7	SL-9						< 0.4 U	< 0.43 U
Aniline	62-53-3	mg/kg	42.7	SL-7		_		_		< 0.4 U	< 0.43 U
Benzidine	92-87-5	mg/kg	3.4E-08	SL-6				-		< 4 U	< 4.3 U
Benzoic acid	65-85-0	mg/kg	0.169	SL-7	< 20 U			-			
Benzyl alcohol	100-51-6	mg/kg	0.0174	SL-7	< 2 U	-		-	-	< 0.4 U	< 0.43 U
Benzyl butyl phthalate	85-68-7	mg/kg	0.000182	SL-6	<1U			-		< 4 U	< 4.3 U
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	0.333	SL-6		-		-			
Bis(2-chloroethoxy)methane	111-91-1	mg/kg				-		-		< 0.4 U	< 0.43 U
Bis(2-chloroethyl) ether	111-44-4	mg/kg	2.18E-05	SL-6						< 0.4 U	< 0.43 U
bis(2-Chloroisopropyl)ether	39638-32-9	mg/kg	000	01.4						< 0.4 U	< 0.43 U
Bis(2-ethylhexyl) adipate Bis(2-ethylhexyl) phthalate	103-23-1 117-81-7	mg/kg mg/kg	833 0.00512	SL-1 SL-6	 2 J					< 0.4 U < 0.4 U	< 0.43 U 0.74
Carbazole	86-74-8	mg/kg	0.00512	SL-0	2 J					< 0.4 U	< 0.43 U
Dibenzofuran	132-64-9	mg/kg	0.0292	SL-7	0.6 J					< 0.4 U	< 0.43 U
Diethyl phthalate	84-66-2	mg/kg	0.0341	SL-7	< 1 U			-		< 2 U	< 2.2 U
Dimethyl phthalate	131-11-3	mg/kg	0.0188	SL-7	<1U					< 0.4 U	< 0.43 U
Di-n-butyl phthalate	84-74-2	mg/kg	0.0149	SL-6	< 2 U					< 4 U	< 4.3 U
Di-n-octyl phthalate	117-84-0	mg/kg	0.327	SL-7	< 1 U			-		< 0.4 U	< 0.43 U
Hexachlorobenzene	118-74-1	mg/kg	4.01E-07	SL-6	<1U	-	-	-		< 0.4 U	< 0.43 U
Hexachlorobutadiene	87-68-3	mg/kg	1.13E-05	SL-6	< 0.025 U					< 0.33 U	< 0.38 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.00169	SL-6		-	-	-		< 0.4 U	< 0.43 U
Hexachloroethane	67-72-1	mg/kg	9.67E-06	SL-6	-	-		-		< 0.4 U	< 0.43 U
Isophorone	78-59-1	mg/kg	0.0387	SL-6		-				< 0.4 U	< 0.43 U
Nitrobenzene	98-95-3	mg/kg	0.0406	SL-6						< 0.4 U	< 0.43 U
N-Nitrosodimethylamine	62-75-9	mg/kg	0.000105	SL-6 SL-6		- -		-		< 0.4 U < 0.4 U	< 0.43 U < 0.43 U
N-Nitroso-di-n-propylamine	621-64-7 86-30-6	mg/kg	3.26E-05 0.00161	SL-6 SL-7	 <1U			-		< 0.4 U	< 0.43 U
N-Nitrosodiphenylamine Pentachlorophenol	87-86-5	mg/kg mg/kg	1.76E-06	SL-7 SL-6	< 10 U					< 0.4 U	< 0.43 U < 2.2 U
Phenol	108-95-2	mg/kg	0.0479	SL-7	< 3 U					< 0.4 U	< 0.43 U
Pyridine	110-86-1	mg/kg	36.4	SL-7						< 4 U	< 4.3 U
Pesticides and Herbicides	110-00-1	mg/kg	. 00.7	OL-1		-		-		, ,,,,	1 7.0 0
2,4'-DDD	53-19-0	mg/kg			< 0.098 U	-		-			
2,4'-DDE	3424-82-6	mg/kg			< 0.074 U						
2,4'-DDT	789-02-6	mg/kg			0.9	-	-	-	-		
4,4'-DDD	72-54-8	mg/kg	3.64E-07	SL-6	0.13					< 0.012 U	< 0.013 U
4,4'-DDE	72-55-9	mg/kg	7.63E-08	SL-6	0.39 J			-		0.32	0.19
4,4'-DDT	50-29-3	mg/kg	8.14E-07	SL-6	1.2 J			-		< 0.012 U	< 0.013 U
Aldrin	309-00-2	mg/kg	2.01E-09	SL-6	9.4	-				0.018 J	3.5

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-22 07/27/2011 SB22-14.0-072711 14 - 14 ft	SB-23 07/28/2011 SB23-8.0-072811 8 - 8 ft	SB-24 07/28/2011 SB24-7.0-072811 7 - 7 ft	SB-25 07/28/2011 SB25-10.0-072811 10 - 10 ft	SB-26 03/04/2021 SB-26-5.5-6.5 5.5 - 6.5 ft	SB-26 03/04/2021 SB-26-12.5 12.5 ft	SB-26 03/04/2021 SB-26-18-20 18 - 20 ft
Semivolatile Organic Compounds				Берит	14-141	0-010	7-710	10 - 10 10	0.0 - 0.0 It	12.010	10 - 20 It
1,2-Dinitrobenzene	528-29-0	mg/kg	8	SL-1							
1,2-Diphenylhydrazine	122-66-7	mg/kg	3.59E-05	SL-6		-	-		-	-	
1,3-Dinitrobenzene	99-65-0	mg/kg	8	SL-1							
1,4-Dinitrobenzene	100-25-4	mg/kg	8	SL-1			-				
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	2400	SL-1			-		-	-	
2,3,5,6-Tetrachlorophenol	935-95-5	mg/kg					-				
2,3-Dichloroaniline	608-27-5 95-95-4	mg/kg	6.98E-05	SL-6		-			< 0.0996 U	 < 0.1 U	
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	88-06-2	mg/kg mg/kg	0.401	SL-6			-		< 0.0996 U	< 0.1 U	-
2,4-Dichlorophenol	120-83-2	mg/kg	0.00434	SL-6					< 0.0996 U	< 0.1 U	
2,4-Dimethylphenol	105-67-9	mg/kg	0.00227	SL-7					< 0.0996 U	< 0.1 U	
2.4-Dinitrophenol	51-28-5	mg/kg	0.0287	SL-6					< 0.199 UJ	< 0.2 UJ	
2.4-Dinitrotoluene	121-14-2	mg/kg	0.000155	SL-6					< 0.0996 U	< 0.1 U	
2,6-Dinitrotoluene	606-20-2	mg/kg	0.0654	SL-7			-		< 0.0996 U	< 0.1 U	
2-Chloronaphthalene	91-58-7	mg/kg	0.277	SL-6			-	-	< 0.0199 U	< 0.02 U	
2-Chlorophenol	95-57-8	mg/kg	0.0115	SL-6					< 0.0199 U	< 0.02 U	
2-Methylphenol	95-48-7	mg/kg	0.00636	SL-7					< 0.0199 U	< 0.02 U	
2-Nitroaniline	88-74-4	mg/kg	292	SL-7					< 0.0996 U	< 0.1 U	
2-Nitrophenol	88-75-5	mg/kg				-			< 0.0199 U	< 0.02 U	
3 & 4 Methylphenol	65794-96-9	mg/kg	05	01 -			-				
3,3'-Dichlorobenzidine	91-94-1	mg/kg	2E-06	SL-6			-		< 0.0996 U	< 0.1 U	
3-Nitroaniline	99-09-2	mg/kg	0.00700	01.0			-		< 0.0996 U	< 0.1 U	
4,6-Dinitro-2-methylphenol 4-Bromophenyl phenyl ether	534-52-1 101-55-3	mg/kg mg/kg	0.00728	SL-6			-		< 0.199 UJ < 0.0199 U	< 0.2 U < 0.02 U	-
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.028	SL-6					< 0.0199 U	< 0.1 U	
4-Chloroaniline	106-47-8	mg/kg	0.96	SL-7					< 0.0996 U	< 0.1 U	
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	0.90	OL-1			-		< 0.0199 U	< 0.02 U	
4-Methylphenol	106-44-5	mg/kg	0.0624	SL-7			-		< 0.0199 U	< 0.02 U	
4-Nitroaniline	100-01-6	mg/kg	30.5	SL-7			-		< 0.0996 U	< 0.1 U	
4-Nitrophenol	100-02-7	mg/kg	7	SL-9					< 0.0996 U	< 0.1 U	
Aniline	62-53-3	mg/kg	42.7	SL-7		-	-	-	-	-	
Benzidine	92-87-5	mg/kg	3.4E-08	SL-6			-		-	-	
Benzoic acid	65-85-0	mg/kg	0.169	SL-7			-		< 0.199 UJ	0.305	
Benzyl alcohol	100-51-6	mg/kg	0.0174	SL-7			-		< 0.0199 U	< 0.02 U	
Benzyl butyl phthalate	85-68-7 108-60-1	mg/kg	0.000182 0.333	SL-6 SL-6					< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U	
Bis(2-chloro-1-methylethyl) ether	111-91-1	mg/kg	0.333	SL-6					< 0.0199 U	< 0.02 U	
Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether	111-91-1	mg/kg mg/kg	2.18E-05	SL-6					< 0.0199 U	< 0.02 U	-
bis(2-Chloroisopropyl)ether	39638-32-9	mg/kg	2.10E-00	JL-0		-					-
Bis(2-ethylhexyl) adipate	103-23-1	mg/kg	833	SL-1							
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.00512	SL-6			_		< 0.0498 U	< 0.05 U	
Carbazole	86-74-8	mg/kg	0.00012	02.0			-		< 0.0199 U	< 0.02 U	
Dibenzofuran	132-64-9	mg/kg	0.0292	SL-7			-		< 0.00499 U	0.00241 J	
Diethyl phthalate	84-66-2	mg/kg	0.0341	SL-7			-		0.124	< 0.02 U	
Dimethyl phthalate	131-11-3	mg/kg	0.0188	SL-7		-	_		< 0.0199 U	< 0.02 U	
Di-n-butyl phthalate	84-74-2	mg/kg	0.0149	SL-6					< 0.0199 U	< 0.02 U	
Di-n-octyl phthalate	117-84-0	mg/kg	0.327	SL-7		-	-		< 0.0199 U	< 0.02 U	-
Hexachlorobenzene	118-74-1	mg/kg	4.01E-07	SL-6			-		< 0.00249 U	< 0.0005 U	-
Hexachlorobutadiene	87-68-3 77-47-4	mg/kg	1.13E-05	SL-6			-		< 0.00249 U	< 0.0005 U	
Hexachlorocyclopentadiene		mg/kg	0.00169	SL-6					< 0.0996 UJ	< 0.1 UJ	
Hexachloroethane Isophorone	67-72-1 78-59-1	mg/kg mg/kg	9.67E-06 0.0387	SL-6 SL-6					< 0.0199 U < 0.0199 U	< 0.02 U < 0.02 U	
Nitrobenzene	98-95-3	mg/kg mg/kg	0.0387	SL-6					< 0.0199 U	< 0.02 U	
N-Nitrosodimethylamine	62-75-9	mg/kg	0.0406	SL-6			-		~ U.U 188 U	~ U.UZ U	-
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	3.26E-05	SL-6					< 0.0199 U	< 0.02 U	
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.00161	SL-7					< 0.0199 U	< 0.02 U	-
Pentachlorophenol	87-86-5	mg/kg	1.76E-06	SL-6			-		< 0.0996 UJ	< 0.1 UJ	
Phenol	108-95-2	mg/kg	0.0479	SL-7			-		< 0.0199 U	0.0129 J	
Pyridine	110-86-1	mg/kg	36.4	SL-7		_	-		-	_	
Pesticides and Herbicides	_										
2,4'-DDD	53-19-0	mg/kg							< 0.00498 U	< 0.001 U	
2,4'-DDE	3424-82-6	mg/kg				-	-		< 0.00498 U	< 0.004 U	-
2,4'-DDT	789-02-6	mg/kg	0.045.07	01.0			-		< 0.00498 U	< 0.001 U	
4,4'-DDD	72-54-8	mg/kg	3.64E-07	SL-6			-		< 0.00498 U	< 0.001 U	
4,4'-DDE	72-55-9	mg/kg	7.63E-08	SL-6			-		< 0.00498 U	0.00323	
4,4'-DDT	50-29-3	mg/kg	8.14E-07	SL-6					< 0.00498 U	< 0.001 U	
Aldrin	309-00-2	mg/kg	2.01E-09	SL-6					0.015	< 0.0005 U	

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-27 03/09/2021 SB-27-8-9 8 - 9 ft	SB-27 03/09/2021 SB-27-18-20 18 - 20 ft	SB-28 03/01/2021 SB-28-14.5-15.5 14.5 - 15.5 ft	SB-30 03/01/2021 SB-30-11.5-12.5 11.5 - 12.5 ft	SB-30 03/01/2021 SB-30-12.5-14.5 12.5 - 14.5 ft	SB-30 03/01/2021 SB-30-23-25 23 - 25 ft	SB-31 03/01/2021 SB-31-10-11 10 - 11 ft
Semivolatile Organic Compounds							1				
1,2-Dinitrobenzene	528-29-0	mg/kg	8	SL-1	-	-	-		-	-	
1,2-Diphenylhydrazine	122-66-7	mg/kg	3.59E-05	SL-6		-	-			-	
1,3-Dinitrobenzene	99-65-0	mg/kg	8	SL-1							
1,4-Dinitrobenzene	100-25-4	mg/kg	8	SL-1		-	-			-	
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	2400	SL-1		-				-	
2,3,5,6-Tetrachlorophenol	935-95-5	mg/kg				-	-				
2,3-Dichloroaniline 2,4,5-Trichlorophenol	608-27-5 95-95-4	mg/kg	6.98E-05	SL-6	 < 0.1 U		< 0.0996 U				
2,4,5-Trichlorophenol	88-06-2	mg/kg mg/kg	0.401	SL-6	< 0.1 U	-	< 0.0996 U			-	
2,4-Dichlorophenol	120-83-2	mg/kg	0.00434	SL-6	< 0.1 U	-	< 0.0996 U			-	
2,4-Dimethylphenol	105-67-9	mg/kg	0.00227	SL-7	< 0.1 U	_	< 0.0996 U		_	_	-
2,4-Dinitrophenol	51-28-5	mg/kg	0.0287	SL-6	< 0.2 UJ		< 0.199 UJ				
2,4-Dinitrotoluene	121-14-2	mg/kg	0.000155	SL-6	< 0.1 U		< 0.0996 U		_	-	
2,6-Dinitrotoluene	606-20-2	mg/kg	0.0654	SL-7	< 0.1 U		< 0.0996 U			-	
2-Chloronaphthalene	91-58-7	mg/kg	0.277	SL-6	< 0.02 U		< 0.0199 U		-	-	
2-Chlorophenol	95-57-8	mg/kg	0.0115	SL-6	< 0.02 U	-	< 0.0199 U		-	-	
2-Methylphenol	95-48-7	mg/kg	0.00636	SL-7	< 0.02 U	-	< 0.0199 U			-	
2-Nitroaniline	88-74-4	mg/kg	292	SL-7	< 0.1 U		< 0.0996 U			-	
2-Nitrophenol	88-75-5	mg/kg			< 0.02 U	-	< 0.0199 U			-	
3 & 4 Methylphenol	65794-96-9	mg/kg				-				-	
3,3'-Dichlorobenzidine	91-94-1	mg/kg	2E-06	SL-6	< 0.1 U	-	< 0.0996 U			-	
3-Nitroaniline	99-09-2	mg/kg			< 0.1 U	-	< 0.0996 U			-	
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.00728	SL-6	< 0.2 U		< 0.199 U			-	
4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol	101-55-3 59-50-7	mg/kg mg/kg	0.028	SL-6	< 0.02 U < 0.1 U	-	< 0.0199 U < 0.0996 U			-	
	106-47-8		0.028	SL-6 SL-7	< 0.1 U	-	< 0.0996 U			-	
4-Chloroaniline 4-Chlorophenyl phenyl ether	7005-72-3	mg/kg mg/kg	0.96	SL-/	< 0.02 U		< 0.0199 UJ		-	-	
4-Methylphenol	106-44-5	mg/kg	0.0624	SL-7	< 0.02 U		< 0.0199 UJ			-	
4-Nitroaniline	100-44-5	mg/kg	30.5	SL-7	< 0.1 U		< 0.0996 U				
4-Nitrophenol	100-02-7	mg/kg	7	SL-9	< 0.1 U		< 0.0996 UJ				
Aniline	62-53-3	mg/kg	42.7	SL-7					_	_	
Benzidine	92-87-5	mg/kg	3.4E-08	SL-6			-			-	
Benzoic acid	65-85-0	mg/kg	0.169	SL-7	< 0.2 UJ	-	< 0.199 U		-	-	
Benzyl alcohol	100-51-6	mg/kg	0.0174	SL-7	< 0.02 U	-	< 0.0199 UJ		-	-	
Benzyl butyl phthalate	85-68-7	mg/kg	0.000182	SL-6	< 0.02 U		< 0.0199 U			-	
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	0.333	SL-6	< 0.02 U	-	< 0.0199 U			-	
Bis(2-chloroethoxy)methane	111-91-1	mg/kg			< 0.02 U	-	< 0.0199 U			-	
Bis(2-chloroethyl) ether	111-44-4	mg/kg	2.18E-05	SL-6	< 0.02 U	-	< 0.0199 U		-	-	
bis(2-Chloroisopropyl)ether	39638-32-9	mg/kg	833	SL-1						-	
Bis(2-ethylhexyl) adipate Bis(2-ethylhexyl) phthalate	103-23-1 117-81-7	mg/kg mg/kg	0.00512	SL-1 SL-6	0.03 J	-	< 0.0498 U		-	-	
Carbazole	86-74-8	mg/kg	0.00512	SL-0	< 0.02 U		< 0.0498 U				
Dibenzofuran	132-64-9	mg/kg	0.0292	SL-7	< 0.0248 U		< 0.00497 U			0.00259 J	
Diethyl phthalate	84-66-2	mg/kg	0.0341	SL-7	< 0.02 U	_	< 0.0199 U		-		-
Dimethyl phthalate	131-11-3	mg/kg	0.0188	SL-7	< 0.02 U		< 0.0199 U		_	_	
Di-n-butyl phthalate	84-74-2	mg/kg	0.0149	SL-6	0.006 J	-	< 0.0199 U			-	
Di-n-octyl phthalate	117-84-0	mg/kg	0.327	SL-7	< 0.02 U		< 0.0199 U			-	
Hexachlorobenzene	118-74-1	mg/kg	4.01E-07	SL-6	< 0.02 U	-	< 0.0199 U		-	-	
Hexachlorobutadiene	87-68-3	mg/kg	1.13E-05	SL-6	< 0.00472 U	-	< 0.00707 U		< 0.00642 UJ	< 0.00747 U	
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.00169	SL-6	< 0.1 UJ	-	< 0.0996 UJ		-	-	
Hexachloroethane	67-72-1	mg/kg	9.67E-06	SL-6	< 0.02 U	-	< 0.0199 U			-	
Isophorone	78-59-1	mg/kg	0.0387	SL-6	< 0.02 U		< 0.0199 UJ				
Nitrobenzene	98-95-3	mg/kg	0.0406	SL-6	< 0.02 U	-	< 0.0199 U			-	
N-Nitrosodimethylamine	62-75-9	mg/kg	0.000105	SL-6	< 0.02 U		 < 0.0100 L!			-	
N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	621-64-7 86-30-6	mg/kg mg/kg	3.26E-05 0.00161	SL-6 SL-7	< 0.02 U		< 0.0199 U < 0.0199 U				
Pentachlorophenol	87-86-5	mg/кg mg/kg	1.76E-06	SL-7 SL-6	< 0.02 U	-	< 0.0199 U < 0.0996 UJ			-	<u></u>
Phenol	108-95-2	mg/kg	0.0479	SL-7	< 0.02 U		< 0.0199 U				
Pyridine	110-86-1	mg/kg	36.4	SL-7							
Pesticides and Herbicides		mgmg	00.1	<u>. </u>							
2,4'-DDD	53-19-0	mg/kg									
2,4-000	3424-82-6	mg/kg									
2,4'-DDE							T .			-	
2,4'-DDE 2,4'-DDT	789-02-6	mg/kg								-	
2,4'-DDE 2,4'-DDT 4,4'-DDD	72-54-8	mg/kg mg/kg	3.64E-07	SL-6	 					-	
2,4'-DDE 2,4'-DDT 4,4'-DDD 4,4'-DDE	72-54-8 72-55-9	mg/kg mg/kg	7.63E-08	SL-6							
2,4'-DDE 2,4'-DDT 4,4'-DDD	72-54-8	mg/kg				 					

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-31 03/01/2021 SB-31-13-14.5	SB-31 03/01/2021 SB-31-19-20 19 - 20 ft	SB-32 03/08/2021 SB-32-7-8 7 - 8 ft	SB-33 03/03/2021 SB-33-5.5-6.5	SB-34 03/01/2021 SB-34-5.5-6.5 5.5 - 6.5 ft
Semivolatile Organic Compounds				Беріп	13 - 14.5 ft	19 - 20 10	/ - o IL	5.5 - 6.5 ft	5.5 - 6.5 IL
1,2-Dinitrobenzene	528-29-0	mg/kg	8	SL-1					
1,2-Diphenylhydrazine	122-66-7	mg/kg	3.59E-05	SL-6					
1,3-Dinitrobenzene	99-65-0	mg/kg	8	SL-1					-
1,4-Dinitrobenzene	100-25-4	mg/kg	8	SL-1	-		-	-	-
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	2400	SL-1	-	-		-	-
2,3,5,6-Tetrachlorophenol	935-95-5	mg/kg							
2,3-Dichloroaniline	608-27-5 95-95-4	mg/kg	6.98E-05	SL-6					
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	88-06-2	mg/kg mg/kg	0.401	SL-6					
2,4-Dichlorophenol	120-83-2	mg/kg	0.00434	SL-6	-			-	
2,4-Dimethylphenol	105-67-9	mg/kg	0.00227	SL-7					
2.4-Dinitrophenol	51-28-5	mg/kg	0.0287	SL-6		_			
2,4-Dinitrotoluene	121-14-2	mg/kg	0.000155	SL-6			-		
2,6-Dinitrotoluene	606-20-2	mg/kg	0.0654	SL-7				-	
2-Chloronaphthalene	91-58-7	mg/kg	0.277	SL-6					
2-Chlorophenol	95-57-8	mg/kg	0.0115	SL-6					
2-Methylphenol	95-48-7	mg/kg	0.00636	SL-7	-		-	-	-
2-Nitroaniline	88-74-4	mg/kg	292	SL-7					
2-Nitrophenol	88-75-5	mg/kg							
3 & 4 Methylphenol	65794-96-9	mg/kg	25.00	CI 6					
3,3'-Dichlorobenzidine 3-Nitroaniline	91-94-1 99-09-2	mg/kg mg/kg	2E-06	SL-6				-	-
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.00728	SL-6					
4-Bromophenyl phenyl ether	101-55-3	mg/kg	0.00726	SL-0					
4-Chloro-3-methylphenol	59-50-7	mg/kg	0.028	SL-6					
4-Chloroaniline	106-47-8	mg/kg	0.96	SL-7					
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	0.00	02 /					
4-Methylphenol	106-44-5	mg/kg	0.0624	SL-7					
4-Nitroaniline	100-01-6	mg/kg	30.5	SL-7	-	-	-	-	
4-Nitrophenol	100-02-7	mg/kg	7	SL-9					
Aniline	62-53-3	mg/kg	42.7	SL-7		-	-	-	-
Benzidine	92-87-5	mg/kg	3.4E-08	SL-6					
Benzoic acid	65-85-0	mg/kg	0.169	SL-7					
Benzyl alcohol Benzyl butyl phthalate	100-51-6 85-68-7	mg/kg mg/kg	0.0174 0.000182	SL-7 SL-6					
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	0.000162	SL-6	-			-	-
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	0.555	OL-0			-		
Bis(2-chloroethyl) ether	111-44-4	mg/kg	2.18E-05	SL-6					
bis(2-Chloroisopropyl)ether	39638-32-9	mg/kg			-	-	-		-
Bis(2-ethylhexyl) adipate	103-23-1	mg/kg	833	SL-1			-		
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	0.00512	SL-6					
Carbazole	86-74-8	mg/kg			-	-	-	-	
Dibenzofuran	132-64-9	mg/kg	0.0292	SL-7	0.00205 J	0.00575			
Diethyl phthalate	84-66-2	mg/kg	0.0341	SL-7					
Dimethyl phthalate	131-11-3	mg/kg	0.0188	SL-7					
Di-n-butyl phthalate	84-74-2	mg/kg	0.0149	SL-6				-	
Di-n-octyl phthalate Hexachlorobenzene	117-84-0 118-74-1	mg/kg	0.327 4.01E-07	SL-7 SL-6			-	-	
Hexachlorobenzene Hexachlorobutadiene	87-68-3	mg/kg mg/kg	4.01E-07 1.13E-05	SL-6	< 39.7 U	< 0.00699 U			< 0.00612 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.00169	SL-6					
Hexachloroethane	67-72-1	mg/kg	9.67E-06	SL-6			_		_
Isophorone	78-59-1	mg/kg	0.0387	SL-6			-		_
Nitrobenzene	98-95-3	mg/kg	0.0406	SL-6					
N-Nitrosodimethylamine	62-75-9	mg/kg	0.000105	SL-6					
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	3.26E-05	SL-6	-		-	-	-
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.00161	SL-7					
Pentachlorophenol	87-86-5	mg/kg	1.76E-06	SL-6	-		-	-	-
Phenol	108-95-2	mg/kg	0.0479	SL-7	-			-	
Pyridine	110-86-1	mg/kg	36.4	SL-7					
Pesticides and Herbicides	E2 40 0	ma as #	1			I		1	ı
2,4'-DDD 2,4'-DDE	53-19-0 3424-82-6	mg/kg							
2,4'-DDT	3424-82-6 789-02-6	mg/kg					-	-	
14.7 700 1		mg/kg	3.64E-07	SL-6					
	72-54-8								
4,4'-DDD	72-54-8 72-55-9	mg/kg mg/kg							
	72-54-8 72-55-9 50-29-3	mg/kg mg/kg	7.63E-08 8.14E-07	SL-6 SL-6					

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	B-01 11/17/2017 B-01-8.5-9.5 8.5 - 9.5 ft	B-02 11/17/2017 B-02-6.5-7 6.5 - 7 ft	B-03 11/17/2017 B-03-6.5-7 6.5 - 7 ft	B-04 11/17/2017 B-04-6.5-7 6.5 - 7 ft	MW-04 03/04/2021 MW-4-7-8 7 - 8 ft	MW-04 03/04/2021 MW-4-10.5-11.5 10.5 - 11.5 ft	MW-04 03/04/2021 MW-4-13.5-14.5 13.5 - 14.5 ft
Alpha-BHC	319-84-6	mg/kg	9.82E-08	SL-6	-	-	-		< 0.01 U	< 0.0025 U	0.014
Beta-BHC	319-85-7	mg/kg	3.4E-06	SL-6	-				< 0.01 U	< 0.0025 U	< 0.00498 U
cis-Chlordane	5103-71-9	mg/kg	5.29E-06	SL-7		-			< 1.98 U	< 0.0025 U	< 0.997 U
cis-Nonachlor	5103-73-1	mg/kg			-	-	-		< 4.44 U	< 0.005 U	< 0.00997 U
Delta-BHC	319-86-8	ma/ka	6	SL-9	-	-	-		< 0.01 U	< 0.0025 U	< 0.00498 U
Dieldrin	60-57-1	ma/ka	3.09E-08	SL-6		-	-		1.75	0.00585 J	< 2.99 U
Endosulfan I	959-98-8	ma/ka	6.13E-05	SL-6		-	-		< 0.01 U	< 0.0025 U	< 0.00498 U
Endosulfan II	33213-65-9	ma/ka	6.13E-05	SL-6	-	-	-		< 4.44 U	< 0.005 U	< 0.498 U
Endosulfan Sulfate	1031-07-8	mg/kg	0.101	SL-6	-	-	-		< 0.02 U	< 0.005 U	< 0.00997 U
Endrin	72-20-8	mg/kg	2.22E-05	SL-6	-				< 0.02 U	< 0.005 U	< 0.00997 U
Endrin Aldehyde	7421-93-4	mg/kg	0.000124	SL-6	-				< 0.02 U	< 0.005 U	< 0.00997 U
Endrin ketone	53494-70-5	ma/ka			-	_	-		< 1.98 U	< 0.005 U	< 0.797 U
Heptachlor	76-44-8	mg/kg	3.34E-09	SL-6					< 1.32 U	< 0.0025 U	< 0.00498 U
Heptachlor Epoxide	1024-57-3	ma/ka	2.49E-08	SL-6					< 0.01 U	< 0.0025 U	< 0.00498 U
Lindane	58-89-9	mg/kg	0.000205	SL-6					< 0.01 U	< 0.0025 U	< 0.00498 U
Methoxychlor	72-43-5	mg/kg	0.00161	SL-6			-		< 0.1 U	< 0.025 U	< 0.0498 U
Mirex	2385-85-5	mg/kg	0.000357	SL-6					< 0.02 U	< 0.025 U	< 1.99 U
Oxychlordane	27304-13-8	ma/ka	0.000337	SL-0					< 0.02 U	< 0.005 U	< 0.00997 U
Total Chlordane	57-74-9	mg/kg	1.13F-06	SL-6			-			< 0.005 U	< 0.00997 0
Toxaphene	8001-35-2	mg/kg	3.07E-06	SL-6							
trans-Chlordane	5103-74-2	ma/ka	5.29E-06	SL-0 SL-7					< 6.66 U	< 0.0025 U	< 0.997 U
trans-Nonachlor	39765-80-5	mg/kg	5.29E-00	SL-/		-			< 0.00 U	< 0.0025 U	< 0.00997 U
Total Petroleum Hydrocarbons	39/00-00-0	mg/kg			-				< 0.02 U	< 0.005 U	< 0.00997 0
	TPH-GRO		30	SL-6				I	650	< 12.8 U	-07011
Gasoline Range Organics		mg/kg					-				< 8.72 U
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9	-	-	-		7090	< 83.7 U	1770
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9					18700	202	5150
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	-		<u> </u>		25800	202	6920
Volatile Organic Compounds	200.00.0	4	10.7	SL-7					< 0.057 U	< 0.00183 U	< 0.00133 U
1,1,1,2-Tetrachloroethane	630-20-6	ma/ka	18.7	SL-/							
	74.55.0		04.4			-					
1,1,1-Trichloroethane	71-55-6	mg/kg	21.1	SL-6	-				< 0.057 U	< 0.00183 U	< 0.00133 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.00011	SL-6 SL-6					< 0.057 U < 0.057 U	< 0.00183 U < 0.00183 U	< 0.00133 U < 0.00133 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	79-34-5 79-00-5	mg/kg mg/kg	0.00011 0.000326	SL-6 SL-6 SL-6		 			< 0.057 U < 0.057 U < 0.057 U	< 0.00183 U < 0.00183 U < 0.00183 U	< 0.00133 U < 0.00133 U < 0.00133 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane	79-34-5 79-00-5 76-13-1	mg/kg mg/kg mg/kg	0.00011 0.000326 812000	SL-6 SL-6 SL-6 SL-7	 	 	 	 	< 0.057 U < 0.057 U < 0.057 U < 0.114 U	< 0.00183 U < 0.00183 U < 0.00183 U < 0.00367 U	< 0.00133 U < 0.00133 U < 0.00133 U < 0.00267 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane	79-34-5 79-00-5 76-13-1 75-34-3	mg/kg mg/kg mg/kg mg/kg	0.00011 0.000326 812000 108	SL-6 SL-6 SL-6 SL-7 SL-7	 	 	 		< 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.114 U < 0.057 U	< 0.00183 U < 0.00183 U < 0.00183 U < 0.00367 U < 0.00183 U	< 0.00133 U < 0.00133 U < 0.00133 U < 0.00267 U < 0.00133 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane	79-34-5 79-00-5 76-13-1 75-34-3 75-35-4	mg/kg mg/kg mg/kg mg/kg mg/kg	0.00011 0.000326 812000	SL-6 SL-6 SL-6 SL-7	 	 			< 0.057 U < 0.057 U < 0.057 U < 0.114 U < 0.057 U < 0.057 U	< 0.00183 U < 0.00183 U < 0.00183 U < 0.00367 U < 0.00183 U < 0.00183 U	< 0.00133 U < 0.00133 U < 0.00133 U < 0.00267 U < 0.00133 U < 0.00133 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropthane	79-34-5 79-00-5 76-13-1 75-34-3 75-35-4 563-58-6	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00011 0.000326 812000 108 1.41	SL-6 SL-6 SL-6 SL-7 SL-7 SL-7					< 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.114 U < 0.057 U < 0.057 U < 0.057 U	< 0.00183 U < 0.00183 U < 0.00183 U < 0.00367 U < 0.00183 U < 0.00183 U < 0.00183 U	< 0.00133 U < 0.00133 U < 0.00133 U < 0.00267 U < 0.00133 U < 0.00133 U < 0.00133 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropethane 1,2,3-Trichlorobenzene	79-34-5 79-00-5 76-13-1 75-34-3 75-35-4 563-58-6 87-61-6	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00011 0.000326 812000 108 1.41	SL-6 SL-6 SL-6 SL-7 SL-7 SL-7		 			< 0.057 U < 0.057 U < 0.057 U < 0.114 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.285 U	< 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U	< 0.00133 U < 0.00133 U < 0.00133 U < 0.00267 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00667 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	79-34-5 79-00-5 76-13-1 75-34-3 75-35-4 563-58-6 87-61-6 96-18-4	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00011 0.000326 812000 108 1.41 12.1 0.00273	SL-6 SL-6 SL-7 SL-7 SL-7 SL-6					< 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.114 U < 0.057 U < 0.057 U < 0.057 U < 0.285 U < 0.114 U	< 0.00183 U < 0.00183 U < 0.00183 U < 0.00367 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00187 U < 0.00367 U	<0.00133 U <0.00133 U <0.00133 U <0.00267 U <0.00133 U <0.00133 U <0.00133 U <0.00133 U <0.00667 U <0.00267 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroptonene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,3-Trichlorobenzene	79-34-5 79-00-5 76-13-1 75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00011 0.000326 812000 108 1.41 12.1 0.00273 0.00188	SL-6 SL-6 SL-7 SL-7 SL-7 SL-6 SL-7 SL-7 SL-7					< 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.114 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.285 U < 0.114 U < 0.0199 U	< 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00187 U < 0.00917 U	< 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00667 U < 0.00267 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trinethylbenzene	79-34-5 79-00-5 76-13-1 75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00011 0.000326 812000 108 1.41 12.1 0.00273 0.00188	SL-6 SL-6 SL-6 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7					< 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.114 U < 0.057 U < 0.057 U < 0.057 U < 0.285 U < 0.114 U < 0.0114 U < 0.0199 U < 0.057 U	<0.00183 U <0.00183 U <0.00183 U <0.00367 U <0.00183 U <0.00183 U <0.00183 U <0.00183 U <0.00197 U <0.00917 U <0.00917 U 0.0023	< 0.00133 U < 0.00133 U < 0.00133 U < 0.00267 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00667 U < 0.00667 U < 0.00667 U < 0.00133 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropthane 1,2,3-Trichlorobenzene 1,2,3-Trichloropthopane 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane	79-34-5 79-00-5 76-13-1 75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 96-12-8	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00011 0.000326 812000 108 1.41 12.1 0.00273 0.00188 179 0.102	SL-6 SL-6 SL-6 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7					< 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.114 U < 0.057 U < 0.057 U < 0.057 U < 0.285 U < 0.114 U < 0.0199 U < 0.057 U < 0.059 U	 < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00367 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00917 U < 0.00917 U < 0.00917 U < 0.00917 U 	 < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00267 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00667 U < 0.00667 U < 0.00667 U < 0.00667 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	79-34-5 79-00-5 76-13-1 75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 96-12-8 106-93-4	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00011 0.000326 812000 108 1.41 12.1 0.00273 0.00188 179 0.102 0.277	SL-6 SL-6 SL-8 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7					< 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.114 U < 0.057 U < 0.057 U < 0.285 U < 0.114 U < 0.0199 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U	 < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00917 U < 0.00917 U < 0.00917 U < 0.00917 U < 0.0033 U 	 < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00267 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00667 U < 0.00667 U < 0.00667 U < 0.00667 U < 0.00667 U < 0.00667 U < 0.0063 U
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloropropene 1,2,3-Trichloropropane 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene	79-34-5 79-00-5 78-13-1 75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 96-12-8 106-93-4 95-50-1	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00011 0.000326 812000 108 1.41 12.1 0.00273 0.00188 179 0.102 0.277 0.00299	SL-6 SL-6 SL-6 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7					< 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.114 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.285 U < 0.114 U < 0.0190 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U	 < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00367 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00917 U < 0.00917 U < 0.00917 U < 0.00917 U < 0.00183 U 	 < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00267 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00667 U < 0.00667 U < 0.00667 U < 0.00667 U < 0.00667 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00107 J
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	79-34-5 79-00-5 78-13-1 75-34-3 75-35-4 563-58-6 87-61-6 96-18-4 120-82-1 95-63-6 96-12-8 106-93-4 95-50-1 107-06-2	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.00011 0.000326 812000 108 1.41 12.1 0.00273 0.00188 179 0.102 0.277 0.00299 0.0237	SL-6 SL-6 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7 SL-7					< 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.114 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.285 U < 0.114 U < 0.0199 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U < 0.057 U	 < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00917 U < 0.00367 U < 0.00917 U < 0.00917 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U < 0.00183 U 	 < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00267 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00667 U < 0.00667 U < 0.00667 U < 0.00133 U < 0.00133 U < 0.00667 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U < 0.00133 U
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				Location	MW-04	MW-05	MW-05	MW-05	MW-05	MW-05	MW-06
				Date	03/04/2021	03/05/2021	03/05/2021	03/05/2021	03/05/2021	03/05/2021	03/05/2021
				Sample	MW-4-18-20	MW-5-6-7	MW-5-8-9.5	MW-5-15-16	MW-5-20-22.5	MW-5-26.5-28	MW-6-9
41.1. 8110	040.04.0		0.005.00	Depth	18 - 20 ft	6 - 7 ft	8 - 9.5 ft	15 - 16 ft	20 - 22.5 ft	26.5 - 28 ft	9 ft
Alpha-BHC	319-84-6 319-85-7	mg/kg	9.82E-08	SL-6 SL-6	< 0.0005 U < 0.0005 U	< 0.00998 U < 0.00998 U	< 0.005 U	< 0.00499 U	< 0.00249 U < 0.00249 U	< 0.0005 U	< 0.0005 U < 0.00998 U
Beta-BHC		mg/kg	3.4E-06				< 0.16 U	< 0.00499 U < 0.00499 U	< 0.00249 U	< 0.0005 U	< 0.00998 U < 0.0005 U
cis-Chlordane cis-Nonachlor	5103-71-9 5103-73-1	mg/kg	5.29E-06	SL-7	< 0.0005 U < 0.001 U	< 6.64 U < 8.86 U	< 0.005 U < 0.77 U	< 0.00499 U < 0.00998 U	< 0.00249 U	< 0.0005 U < 0.001 U	< 0.0005 U < 0.001 U
Delta-BHC	319-86-8	mg/kg ma/ka	6	SL-9	< 0.001 U	< 0.00998 U	< 0.77 U < 0.005 U	< 0.00998 U < 0.00499 U	< 0.0349 U < 0.00249 U	< 0.001 U	< 0.001 U
Dieldrin	60-57-1	mg/kg	3.09E-08	SL-9 SL-6	< 0.0005 U	3.1	< 2 U	< 0.00499 U	0.00249 0	< 0.0005 U	0.0005 0
Endosulfan I	959-98-8	ma/ka	6.13E-05	SL-6	< 0.001 U	< 0.00998 U	< 0.005 U	< 0.00998 U	< 0.00249 U	< 0.001 U	< 0.005 U
Endosulfan II	33213-65-9	mg/kg	6.13E-05 6.13E-05	SL-6	< 0.0005 U	< 8.86 U	< 1.11 U	< 0.00499 U	< 0.00249 U	< 0.0005 U	< 0.0005 U
Endosulfan Sulfate	1031-07-8	mg/kg	0.101	SL-6	< 0.001 U	< 0.02 U	< 0.01 U	< 0.00998 U	< 0.00498 U	< 0.001 U	< 0.001 U
Endrin	72-20-8	mg/kg	2.22E-05	SL-6	< 0.001 UJ	< 0.02 U	< 0.01 U	< 0.00998 UJ	< 0.00498 UJ	< 0.001 UJ	< 0.001 UJ
Endrin Aldehyde	7421-93-4	mg/kg	0.000124	SL-6	< 0.001 U	< 0.02 U	< 0.01 U	< 0.00998 U	< 0.00498 U	< 0.001 UJ	< 0.001 U
Endrin Aidenyde Endrin ketone	53494-70-5	mg/kg	0.000124	SL-0	< 0.001 U	< 0.02 U	< 0.55 U	< 0.00998 U	< 0.00498 U	< 0.001 U	< 0.001 U
Heptachlor	76-44-8	mg/kg	3.34E-09	SL-6	< 0.001 U	< 4.43 U	< 0.30 U	< 0.00390 U	< 0.00490 U	< 0.001 U	< 0.002 U
Heptachlor Epoxide	1024-57-3	ma/ka	2.49E-08	SL-6	< 0.0005 U	< 0.00998 U	< 0.005 U	< 0.439 U	< 0.00249 U	< 0.0005 U	< 0.0003 U
Lindane	58-89-9	mg/kg	0.000205	SL-6	< 0.0005 U	< 0.00998 U	< 0.005 U	< 0.00499 U	< 0.00249 U	< 0.0005 U	< 0.002 U
Methoxychlor	72-43-5	mg/kg	0.000203	SL-6	< 0.00499 U	< 0.00998 U	< 0.005 U	< 0.0499 U	< 0.00249 U	< 0.00499 U	< 0.0003 U
Mirex	2385-85-5	mg/kg	0.000357	SL-6	< 0.00499 U	< 0.02 U	< 0.03 U	< 0.00998 U	< 0.0249 U	< 0.00499 U	< 0.00499 U
Oxychlordane	27304-13-8	mg/kg	0.000331	OL-U	< 0.001 U	< 0.02 U	< 0.01 U	< 0.00998 U	< 0.00498 U	< 0.001 U	< 0.001 U
Total Chlordane	57-74-9	mg/kg	1.13E-06	SL-6							
Toxaphene	8001-35-2	mg/kg	3.07E-06	SL-6			-		-		
trans-Chlordane	5103-74-2	ma/ka	5.29E-06	SL-7	< 0.0005 U	< 0.00998 U	< 0.005 U	< 0.00499 U	< 0.00249 U	< 0.0005 U	< 0.0005 U
trans-Nonachlor	39765-80-5	mg/kg	0.202 00	OL.	< 0.001 U	< 4.43 U	< 0.01 U	< 0.00998 U	< 0.00498 U	< 0.001 U	< 0.001 U
Total Petroleum Hydrocarbons	00100 00 0	nignig			0.0010	1.100		0.00000	10.001000	0.0010	0.0010
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-6	< 8.16 U	534	< 6.27 U	< 7.73 U	< 6.74 U	< 8.69 U	< 7.24 U
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9	< 67.5 U	9550	964 J	248	< 60.7 U	< 63 U	< 65.3 U
Motor Oil Range Organics	TPH-ORO	ma/ka	260	SL-9	< 135 U	26800	2490 J	777	191	< 126 U	< 131 U
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	< 135 U	36400	3450 J	1030	191	< 126 U	< 131 U
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	18.7	SL-7	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,1,1-Trichloroethane	71-55-6	mg/kg	21.1	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.00011	SL-6	< 0.00138 U	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,1,2-Trichloroethane	79-00-5	mg/kg	0.000326	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	812000	SL-7	< 0.00275 U	< 0.00238 U	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U	< 0.00261 U
1,1-Dichloroethane	75-34-3	mg/kg	108	SL-7	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,1-Dichloroethene	75-35-4	mg/kg	1.41	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,1-Dichloropropene	563-58-6	mg/kg			< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	12.1	SL-7	< 0.00688 U	< 0.00596 UJ	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U	< 0.00653 U
1,2,3-Trichloropropane	96-18-4	mg/kg	0.00273	SL-7	< 0.00275 U	< 0.00238 UJ	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U	< 0.00261 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.00188	SL-7	< 0.00688 U	< 0.00596 UJ	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U	< 0.00653 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	179	SL-7	< 0.00138 U	0.00775 J	< 0.00101 U	0.00042 J	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.102	SL-7	< 0.00688 U	< 0.00596 UJ	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U	< 0.00653 U
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.277	SL-7	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,2-Dichlorobenzene	95-50-1	mg/kg	0.00299	SL-7	< 0.00138 U	0.0538	0.0359	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.0237	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,2-Dichloropropane	78-87-5	mg/kg	0.00103	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	180	SL-7	< 0.00138 U	0.0285 J	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,3-Dichlorobenzene	541-73-1	mg/kg	0.00132	SL-6	< 0.00138 U	0.00328 J	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,3-Dichloropropane	142-28-9	mg/kg	884	SL-7	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
1,4-Dichloro-2-Butene	110-57-6	mg/kg	0.00007	01.7	< 0.00688 U	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U	< 0.00653 U
1,4-Dichlorobenzene	106-46-7	mg/kg	0.00807	SL-7	< 0.00138 U	0.014 J	0.0084 J	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
2,2-Dichloropropane	594-20-7	mg/kg			< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
2-Butanone	78-93-3	ma/ka	48000	SL-1	< 0.00688 U	< 0.00596 U	0.00382 J	< 0.00638 U	< 0.00629 U	< 0.00736 U	< 0.00653 U
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg		01.7	< 0.00688 UJ	< 0.00596 UJ	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U	< 0.00653 UJ
2-Chloroethyl Vinyl Ether 2-Chlorotoluene	110-75-8 95-49-8	mg/kg	414	SL-7	< 0.00138 U	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
2-Chloroethyl Vinyl Ether	110-75-8		414 400	SL-7 SL-1							

				Location	MW-06	MW-07	MW-08	MW-08	MW-10	MW-11	MW-12
				Date	03/05/2021	03/09/2021	03/09/2021	03/09/2021	03/08/2021	03/08/2021	03/03/2021
				Sample	MW-6-18-20	MW-7-17-19	MW-8-8-9	MW-8-18-20	MW-10-5.5-6.5	MW-11-6-7	MW-12-9.5-10.5
				Depth	18 - 20 ft	17 - 19 ft	8 - 9 ft	18 - 20 ft	5.5 - 6.5 ft	6 - 9 ft	9.5 - 10.5 ft
Alpha-BHC	319-84-6	mg/kg	9.82E-08	SL-6	< 0.0005 U	-	< 0.0005 U		-	-	
Beta-BHC	319-85-7	mg/kg	3.4E-06	SL-6	< 0.0005 U	-	< 0.0005 U		-	-	
cis-Chlordane	5103-71-9	mg/kg	5.29E-06	SL-7	< 0.0005 U		< 0.0005 U			-	
cis-Nonachlor	5103-73-1	mg/kg			< 0.001 U		< 0.001 U				
Delta-BHC	319-86-8	mg/kg	6	SL-9	< 0.0005 U	-	< 0.0005 U		-	-	
Dieldrin	60-57-1	mg/kg	3.09E-08	SL-6	0.00114		< 0.001 U			-	
Endosulfan I	959-98-8	mg/kg	6.13E-05	SL-6	< 0.0005 U	-	< 0.0005 U		-	-	
Endosulfan II	33213-65-9	mg/kg	6.13E-05	SL-6	< 0.001 U	-	< 0.001 U		-	-	-
Endosulfan Sulfate	1031-07-8	mg/kg	0.101	SL-6	< 0.001 U	-	< 0.001 U			-	
Endrin	72-20-8	mg/kg	2.22E-05	SL-6	< 0.001 UJ	-	< 0.001 UJ			-	
Endrin Aldehyde	7421-93-4	mg/kg	0.000124	SL-6	< 0.001 U	-	< 0.001 U			-	
Endrin ketone	53494-70-5	mg/kg			< 0.001 U	-	< 0.001 U		-	-	
Heptachlor	76-44-8	mg/kg	3.34E-09	SL-6	< 0.0005 U	-	< 0.0005 U			-	
Heptachlor Epoxide	1024-57-3	mg/kg	2.49E-08	SL-6	< 0.0005 U	-	< 0.0005 U		-	-	
Lindane	58-89-9	mg/kg	0.000205	SL-6	< 0.0005 U		< 0.0005 U				
Methoxychlor	72-43-5	mg/kg	0.00161	SL-6	< 0.00499 U	-	< 0.00499 U			-	
Mirex	2385-85-5	mg/kg	0.000357	SL-6	< 0.001 U		< 0.001 U			-	
Oxychlordane Total Chlordane	27304-13-8 57-74-9	mg/kg	1.13E-06	SL-6	< 0.001 U	-	< 0.001 U			-	
Total Chlordane		mg/kg								-	
Toxaphene trans-Chlordane	8001-35-2 5103-74-2	mg/kg mg/ka	3.07E-06 5.29E-06	SL-6 SL-7	< 0.0005 U	-	< 0.0005 U			-	
trans-Uniordane trans-Nonachlor	39765-80-5		5.29E-06	SL-/	< 0.0005 U < 0.001 U		< 0.0005 U < 0.001 U				
Total Petroleum Hydrocarbons	39700-00-0	mg/kg			< 0.0010	-	< 0.0010			-	
Gasoline Range Organics	TPH-GRO	ma/ka	30	SL-6	< 9.26 U		< 8.85 U		< 6.54 U	< 6.56 U	
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-6 SL-9	< 63.8 U		< 62.9 U		< 63.8 U	< 63.7 U	
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9	< 128 U		< 126 U		< 128 U	< 127 U	
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	< 128 U		< 126 U		< 128 U	< 127 U	
Volatile Organic Compounds	IFN-EAI	HIQ/KQ	200	SL-8	× 120 U	-	\ 120 U		\ 120 U	<u> </u>	
1.1.1.2-Tetrachloroethane	630-20-6	ma/ka	18.7	SL-7	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
1.1.1-Trichloroethane	71-55-6	mg/kg	21.1	SL-6	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
1.1.2.2-Tetrachloroethane	79-34-5	mg/kg	0.00011	SL-6	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
1.1.2-Trichloroethane	79-00-5	mg/kg	0.000326	SL-6	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
1.1.2-Trichlorotrifluoroethane	76-13-1	ma/ka	812000	SL-7	< 0.00233 U	-	< 0.0023 U		< 0.00203 U	< 0.00225 U	
1.1-Dichloroethane	75-34-3	mg/kg	108	SL-7	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
1.1-Dichloroethene	75-35-4	mg/kg	1.41	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
1,1-Dichloropropene	563-58-6	mg/kg			< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
1,2,3-Trichlorobenzene	87-61-6	mg/kg	12.1	SL-7	< 0.00582 U		< 0.00574 U		< 0.00508 U	< 0.00563 U	
1.2.3-Trichloropropane	96-18-4	ma/ka	0.00273	SL-7	< 0.00233 U	-	< 0.0023 U		< 0.00203 U	< 0.00225 U	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.00188	SL-7	< 0.00582 U		< 0.00574 U		< 0.00508 U	< 0.00563 U	
1,2,4-Trimethylbenzene	95-63-6	mg/kg	179	SL-7	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.102	SL-7	< 0.00582 U		< 0.00574 U		< 0.00508 U	< 0.00563 U	
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.277	SL-7	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
1,2-Dichlorobenzene	95-50-1	mg/kg	0.00299	SL-7	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.0237	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
1,2-Dichloropropane	78-87-5	mg/kg	0.00103	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
1,3,5-Trimethylbenzene	108-67-8	mg/kg	180	SL-7	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
1,3-Dichlorobenzene	541-73-1	mg/kg	0.00132	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
1,3-Dichloropropane	142-28-9	mg/kg	884	SL-7	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	-
1,4-Dichloro-2-Butene	110-57-6	mg/kg			< 0.00582 U		< 0.00574 U		< 0.00508 U	< 0.00563 U	
1,4-Dichlorobenzene	106-46-7	mg/kg	0.00807	SL-7	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
2,2-Dichloropropane	594-20-7	mg/kg			< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
2-Butanone	78-93-3	mg/kg	48000	SL-1	< 0.00582 U		< 0.00574 U		< 0.00508 U	< 0.00563 U	
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg			< 0.00582 UJ	-	< 0.00574 UJ		< 0.00508 U	< 0.00563 U	
2-Chlorotoluene	95-49-8	mg/kg	414	SL-7	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	-
2-Hexanone	591-78-6	mg/kg	400	SL-1	< 0.00582 U		< 0.00574 U		< 0.00508 U	< 0.00563 U	
2-Pentanone	107-87-9	mg/kg			< 0.00582 UJ		< 0.00574 U		< 0.00508 U	< 0.00563 U	

				Location Date Sample	MW-13 03/01/2021 MW-13-9.5-10.5	MW-13 03/01/2021 MW-13-18-19.5	SB-01 09/27/2007 SB-01-9	SB-02 09/28/2007 SB-02-9	SB-03 09/27/2007 SB-03-7	SB-03 09/27/2007 SB-03-13.5	SB-04 09/27/2007 SB-04-8
				Depth	9.5 - 10.5 ft	18 - 19.5 ft	9 - 11 ft	9 - 11 ft	7 - 9 ft	14 - 16 ft	8 - 10 ft
Alpha-BHC	319-84-6	mg/kg	9.82E-08	SL-6							
Beta-BHC	319-85-7	mg/kg	3.4E-06	SL-6							
cis-Chlordane	5103-71-9	mg/kg	5.29E-06	SL-7							
cis-Nonachlor	5103-73-1	mg/kg									
Delta-BHC	319-86-8	mg/kg	6	SL-9							
Dieldrin	60-57-1	ma/ka	3.09E-08	SL-6			< 0.00099 U	0.00058 J	0.027	< 0.00099 U	< 0.001 U
Endosulfan I	959-98-8	mg/kg	6.13E-05	SL-6		-			-		
Endosulfan II	33213-65-9	mg/kg	6.13E-05	SL-6							
Endosulfan Sulfate	1031-07-8	mg/kg	0.101	SL-6						-	
Endrin	72-20-8	mg/kg	2.22E-05	SL-6							
Endrin Aldehyde	7421-93-4	mg/kg	0.000124	SL-6							
Endrin ketone	53494-70-5	mg/kg									
Heptachlor	76-44-8	mg/kg	3.34E-09	SL-6			< 0.00099 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.001 U
Heptachlor Epoxide	1024-57-3	mg/kg	2.49E-08	SL-6							
Lindane	58-89-9	mg/kg	0.000205	SL-6			< 0.00099 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.001 U
Methoxychlor	72-43-5	mg/kg	0.00161	SL-6				-			
Mirex	2385-85-5	mg/kg	0.000357	SL-6							
Oxychlordane	27304-13-8	mg/kg									
Total Chlordane	57-74-9	mg/kg	1.13E-06	SL-6			< 0.0099 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 0.01 U
Toxaphene	8001-35-2	mg/kg	3.07E-06	SL-6					-		
trans-Chlordane	5103-74-2	mg/kg	5.29E-06	SL-7		-			-		
trans-Nonachlor	39765-80-5	mg/kg									
Total Petroleum Hydrocarbons											
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-6	10.4	71.9	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9	< 62.1 U	< 70 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9	< 124 U	< 140 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	< 124 U	< 140 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	18.7	SL-7	< 0.00125 U	< 0.00131 U		-	-		
1,1,1-Trichloroethane	71-55-6	mg/kg	21.1	SL-6	< 0.00125 U	< 0.00131 U		-	-		
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.00011	SL-6	< 0.00125 U	< 0.00131 U					
1,1,2-Trichloroethane	79-00-5	mg/kg	0.000326	SL-6	< 0.00125 U	< 0.00131 U		-	-		
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	812000	SL-7	< 0.00251 U	< 0.00261 U		-	-		
1,1-Dichloroethane	75-34-3	mg/kg	108	SL-7	< 0.00125 U	< 0.00131 U		-	-		
1,1-Dichloroethene	75-35-4	mg/kg	1.41	SL-6	< 0.00125 U	< 0.00131 U					
1,1-Dichloropropene	563-58-6	mg/kg			< 0.00125 U	< 0.00131 U		-	-		
1,2,3-Trichlorobenzene	87-61-6	mg/kg	12.1	SL-7	< 0.00627 U	< 0.00653 U					
1,2,3-Trichloropropane	96-18-4	mg/kg	0.00273	SL-7	< 0.00251 U	< 0.00261 U					
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.00188	SL-7	< 0.00627 U	< 0.00653 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	179	SL-7	< 0.00125 U	< 0.00131 U				-	-
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.102	SL-7	< 0.00627 U	< 0.00653 U					
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.277	SL-7	< 0.00125 U	< 0.00131 U					
1,2-Dichlorobenzene	95-50-1	mg/kg	0.00299	SL-7	< 0.00125 U	< 0.00131 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.0237	SL-6	< 0.00125 U	< 0.00131 U					
1,2-Dichloropropane	78-87-5	mg/kg	0.00103	SL-6	< 0.00125 U	< 0.00131 U					
1,3,5-Trimethylbenzene	108-67-8	mg/kg	180	SL-7	< 0.00125 U	< 0.00131 U					
1,3-Dichlorobenzene	541-73-1	mg/kg	0.00132	SL-6	< 0.00125 U	< 0.00131 U				-	-
1,3-Dichloropropane	142-28-9	mg/kg	884	SL-7	< 0.00125 U	< 0.00131 U					-
1,4-Dichloro-2-Butene	110-57-6	mg/kg			< 0.00627 U	< 0.00653 U					
1,4-Dichlorobenzene	106-46-7	mg/kg	0.00807	SL-7	< 0.00125 U	< 0.00131 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.01 U
2,2-Dichloropropane	594-20-7	mg/kg			< 0.00125 U	< 0.00131 U				-	-
2-Butanone	78-93-3	mg/kg	48000	SL-1	< 0.00627 U	< 0.00653 U					
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg			< 0.00627 UJ	< 0.00653 UJ					
2-Chlorotoluene	95-49-8	mg/kg	414	SL-7	< 0.00125 U	< 0.00131 U					
2-Hexanone	591-78-6	mg/kg	400	SL-1	< 0.00627 U	< 0.00653 U					
2-Pentanone	107-87-9	mg/kg			< 0.00627 UJ	< 0.00653 UJ					

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-05 09/27/2007 SB-05-8 8 - 10 ft	SB-06 09/28/2007 SB-06-8 8 - 10 ft	SB-07 09/28/2007 SB-07-9 9 - 11 ft	SB-08 09/27/2007 SB-08-9 9 - 11 ft	SB-09 09/27/2007 SB-09-10 10 - 12 ft	SB-10 09/28/2007 SB-10-14 14 - 16 ft	SB-13 10/01/2007 SB-13-7 7 - 9 ft
Alpha-BHC	319-84-6	ma/ka	9.82E-08	SL-6	-	_	-	-	-	-	-
Beta-BHC	319-85-7	ma/ka	3.4E-06	SL-6					-	-	-
cis-Chlordane	5103-71-9	mg/kg	5.29E-06	SL-7		-			-	_	
cis-Nonachlor	5103-73-1	mg/kg			-	_	-		-	-	
Delta-BHC	319-86-8	ma/ka	6	SL-9		_	-			-	-
Dieldrin	60-57-1	mg/kg	3.09E-08	SL-6	< 0.00099 U	< 0.001 U	0.0017	< 0.001 U	< 0.00099 U	< 0.0017 U	< 0.12 U
Endosulfan I	959-98-8	ma/ka	6.13E-05	SL-6							
Endosulfan II	33213-65-9	ma/ka	6.13E-05	SL-6	-	_	-		-	-	-
Endosulfan Sulfate	1031-07-8	mg/kg	0.101	SL-6		-	-		-		-
Endrin	72-20-8	mg/kg	2.22E-05	SL-6			-				
Endrin Aldehyde	7421-93-4	mg/kg	0.000124	SL-6		-	-		_		
Endrin ketone	53494-70-5	ma/ka	0.000121	02.0							
Heptachlor	76-44-8	ma/ka	3.34E-09	SL-6	0.00056	< 0.001 U	< 0.001 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.1 U
Heptachlor Epoxide	1024-57-3	ma/ka	2.49E-08	SL-6							-0.10
Lindane	58-89-9	mg/kg	0.000205	SL-6	< 0.00099 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.00099 U	< 0.00099 U	< 0.1 U
Methoxychlor	72-43-5	mg/kg	0.000203	SL-6							
Mirex	2385-85-5	mg/kg	0.000357	SL-6		-	-	-			
Oxychlordane	27304-13-8	mg/kg	0.000337	SL-U			-				
Total Chlordane	57-74-9	mg/kg	1.13E-06	SL-6	< 0.0099 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.0099 U	< 0.0099 U	< 3.2 U
Toxaphene	8001-35-2	mg/kg	3.07E-06	SL-6			< 0.01 U		< 0.0099 U	\ 0.0088 U	
trans-Chlordane	5103-74-2		5.29E-06	SL-6 SL-7							
		mg/kg	5.29E-06	SL-/							
trans-Nonachlor	39765-80-5	mg/kg	L								
Total Petroleum Hydrocarbons	TRU ODO	4	00	0.0							. 4 0 1 1
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-6	< 20 U	< 20 U	< 1.6 U				
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9	23	3.7	< 50 U	< 50 U	< 50 U	< 50 U	950 J
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9	220 J	21	< 100 U	< 100 U	< 100 U	< 100 U	4700 J
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	243 J	24.7	< 100 U	< 100 U	< 100 U	< 100 U	5650 J
Volatile Organic Compounds							1	1			
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	18.7	SL-7		-	-			-	
1,1,1-Trichloroethane	71-55-6	mg/kg	21.1	SL-6		-	-			-	
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.00011	SL-6		-	-		-	-	-
1,1,2-Trichloroethane	79-00-5	mg/kg	0.000326	SL-6			-	-		-	
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	812000	SL-7		-	-		-	-	-
1,1-Dichloroethane	75-34-3	mg/kg	108	SL-7		-	-				
1,1-Dichloroethene	75-35-4	mg/kg	1.41	SL-6		-					
1,1-Dichloropropene	563-58-6	mg/kg				-					
1,2,3-Trichlorobenzene	87-61-6	mg/kg	12.1	SL-7		-					
1,2,3-Trichloropropane	96-18-4	mg/kg	0.00273	SL-7		-	-	-		-	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.00188	SL-7	< 0.01 U	< 0.0098 U	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	179	SL-7		-	-	-		-	
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.102	SL-7		-				-	
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.277	SL-7							
1,2-Dichlorobenzene	95-50-1	mg/kg	0.00299	SL-7	< 0.01 U	< 0.0098 U	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.0237	SL-6		-	-			-	
1,2-Dichloropropane	78-87-5	mg/kg	0.00103	SL-6	-	-	-		-	-	-
1,3,5-Trimethylbenzene	108-67-8	mg/kg	180	SL-7		-	-		-	-	-
1,3-Dichlorobenzene	541-73-1	mg/kg	0.00132	SL-6		-	-		-	-	-
1,3-Dichloropropane	142-28-9	mg/kg	884	SL-7		-	-		-	-	-
1,4-Dichloro-2-Butene	110-57-6	mg/kg			-	-	-		-	-	-
1,4-Dichlorobenzene	106-46-7	mg/kg	0.00807	SL-7	< 0.01 U	< 0.0098 U	< 0.0099 U	< 0.0099 U	< 0.0098 U	< 0.01 U	< 0.19 U
2,2-Dichloropropane	594-20-7	mg/kg									
2-Butanone	78-93-3	mg/kg	48000	SL-1	-						-
IZ-Dularione		ma/ka				_	-		_	_	
2-Chloroethyl Vinyl Ether	110-75-8	ma/ka									
	110-75-8 95-49-8		414	SL-7		-					
2-Chloroethyl Vinyl Ether		mg/kg mg/kg	414 400	SL-7 SL-1							

				Location Date Sample Depth	SB-14 10/01/2007 SB-14-7.5 8 - 10 ft	SB-17 07/27/2011 SB17-10.0-072711 10 - 10 ft	SB-18A 07/27/2011 SB18A-9.0-072711 9 - 9 ft	SB-19 07/28/2011 SB19-8.0-072811 8 - 8 ft	SB-20A 07/27/2011 SB20A-8.5-072711 8.5 - 8.5 ft	SB-21 07/27/2011 SB21-9.0-072711 9 - 9 ft	SB-22 07/27/2011 SB22-10.0-072711 10 - 10 ft
Alpha-BHC	319-84-6	mg/kg	9.82E-08	SL-6	-	-	-	-	-	< 0.0059 U	< 0.0065 U
Beta-BHC	319-85-7	mg/kg	3.4E-06	SL-6	-	-	-	-	-	< 0.0059 U	< 0.0065 U
cis-Chlordane	5103-71-9	mg/kg	5.29E-06	SL-7	-				-	0.047	< 0.013 U
cis-Nonachlor	5103-73-1	mg/kg			-	-	-	-	-	-	
Delta-BHC	319-86-8	mg/kg	6	SL-9	-	-	-	-	-	< 0.0059 U	0.056 J
Dieldrin	60-57-1	mg/kg	3.09E-08	SL-6	< 0.071 U				-	0.18 J	0.082 J
Endosulfan I	959-98-8	mg/kg	6.13E-05	SL-6						< 0.0059 U	< 0.0065 U
Endosulfan II	33213-65-9	mg/kg	6.13E-05	SL-6		-				< 0.012 U	< 0.013 U
Endosulfan Sulfate	1031-07-8	mg/kg	0.101	SL-6		-				< 0.012 U	< 0.013 U
Endrin	72-20-8	mg/kg	2.22E-05	SL-6		-				< 0.012 U	< 0.013 U
Endrin Aldehyde	7421-93-4	mg/kg	0.000124	SL-6	-		-		-	0.16	0.036 J
Endrin ketone	53494-70-5	mg/kg							-	< 0.012 U	< 0.013 U
Heptachlor	76-44-8	mg/kg	3.34E-09	SL-6	< 0.0099 U	-	-			0.0076	0.017
Heptachlor Epoxide	1024-57-3	mg/kg	2.49E-08	SL-6		-	-		-	< 0.0059 U	< 0.0065 U
Lindane	58-89-9	mg/kg	0.000205	SL-6	< 0.0099 U	-	-		-	< 0.0059 U	< 0.0065 U
Methoxychlor	72-43-5	mg/kg	0.00161	SL-6	-	-	-		-	< 0.012 U	< 0.013 U
Mirex	2385-85-5	mg/kg	0.000357	SL-6	-	-	-		-	-	
Oxychlordane	27304-13-8	mg/kg				-	-		-	-	-
Total Chlordane	57-74-9	mg/kg	1.13E-06	SL-6	< 5 U	-			-		
Toxaphene	8001-35-2	mg/kg	3.07E-06	SL-6		-	-		-	< 0.059 U	< 0.065 U
trans-Chlordane	5103-74-2	mg/kg	5.29E-06	SL-7	-	-	-		-	0.18 J	< 0.013 U
trans-Nonachlor	39765-80-5	mg/kg									
Total Petroleum Hydrocarbons	TRU ODO	4	20	01.0			1				7.011
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-6 SL-9	350 J 3000 J		 < 29 U	 < 170 U	< 6 U 170 J	< 6.6 U	< 7.2 U
Diesel Range Organics Motor Oil Range Organics	TPH-DRO TPH-ORO	mg/kg ma/ka	260 260	SL-9 SL-9	8900 J	34 J 220	< 29 U 82	< 170 U	170 J 1200	400 J 2900	1600 J 6700
Diesel and Oil Extended Range Organics	TPH-URU	mg/kg	260	SL-9 SL-9	11900 J	254 J	96.5	865	1200 1370 J	3300 J	8300 J
Volatile Organic Compounds	IPH-EXI	mg/kg	200	SL-9	11900 J	204 J	90.5	000	13/03	3300 3	6300 J
1.1.1.2-Tetrachloroethane	630-20-6	ma/ka	18.7	SL-7	< 0.0063 U					< 0.0011 U	< 0.076 U
1.1.1-Trichloroethane	71-55-6	mg/kg	21.1	SL-6	< 0.0063 U	-			-	< 0.0011 U	< 0.076 U
1.1.2.2-Tetrachloroethane	79-34-5	mg/kg	0.00011	SL-6	< 0.0063 U	_				< 0.066 U	< 0.076 U
1.1.2-Trichloroethane	79-00-5	mg/kg	0.000326	SL-6	< 0.0063 U					< 0.0011 U	< 0.076 U
1.1.2-Trichlorotrifluoroethane	76-13-1	mg/kg	812000	SL-7							
1.1-Dichloroethane	75-34-3	mg/kg	108	SL-7	< 0.0063 U	_			_	< 0.0011 U	< 0.076 U
1.1-Dichloroethene	75-35-4	ma/ka	1.41	SL-6	< 0.0063 U	_			_	< 0.0011 U	< 0.076 U
1.1-Dichloropropene	563-58-6	ma/ka		02.0	< 0.0063 U				-	< 0.0011 U	< 0.076 U
1.2.3-Trichlorobenzene	87-61-6	ma/ka	12.1	SL-7	< 0.025 U	-	_		_	< 0.066 U	< 0.076 U
1.2.3-Trichloropropane	96-18-4	ma/ka	0.00273	SL-7	< 0.0063 U					< 0.066 U	< 0.076 U
1.2.4-Trichlorobenzene	120-82-1	mg/kg	0.00188	SL-7	< 0.025 U	-	_		-	< 0.066 U	< 0.076 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	179	SL-7	< 0.025 U		-		-	< 0.066 U	< 0.076 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.102	SL-7	< 0.025 U				-	< 0.33 U	< 0.38 U
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.277	SL-7	< 0.025 U				-	< 0.0011 U	< 0.076 U
1,2-Dichlorobenzene	95-50-1	mg/kg	0.00299	SL-7	< 0.0063 U					< 0.066 U	0.11
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.0237	SL-6	< 0.0063 U					< 0.0011 U	< 0.076 U
1,2-Dichloropropane	78-87-5	mg/kg	0.00103	SL-6	< 0.0063 U					< 0.0011 U	< 0.076 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	180	SL-7	< 0.025 U	-	-		-	< 0.066 U	< 0.076 U
1,3-Dichlorobenzene	541-73-1	mg/kg	0.00132	SL-6	< 0.0063 U	-	-		-	< 0.066 U	< 0.076 U
1,3-Dichloropropane	142-28-9	mg/kg	884	SL-7	< 0.0063 U	-			-	< 0.0011 U	< 0.076 U
1,4-Dichloro-2-Butene	110-57-6	mg/kg			-	-					
1,4-Dichlorobenzene	106-46-7	mg/kg	0.00807	SL-7	< 0.0063 U	-			-	< 0.066 U	< 0.076 U
		mg/kg			< 0.0063 U	-			-	< 0.0011 U	< 0.076 U
2,2-Dichloropropane	594-20-7						1	I			< 0.38 U
2-Butanone	78-93-3	mg/kg	48000	SL-1	< 0.025 U	_	-		-	0.017	
2-Butanone 2-Chloroethyl Vinyl Ether	78-93-3 110-75-8	mg/kg mg/kg								< 0.0057 U	< 0.38 U
2-Butanone 2-Chloroethyl Vinyl Ether 2-Chlorotoluene	78-93-3 110-75-8 95-49-8	mg/kg mg/kg mg/kg	414	SL-7	 < 0.025 U					< 0.0057 U < 0.066 U	< 0.38 U < 0.076 U
2-Butanone 2-Chloroethyl Vinyl Ether	78-93-3 110-75-8	mg/kg mg/kg				-				< 0.0057 U	< 0.38 U

				Location Date Sample Depth	SB22-14.0-072711	SB-23 07/28/2011 SB23-8.0-072811 8 - 8 ft	SB-24 07/28/2011 SB24-7.0-072811 7 - 7 ft	SB-25 07/28/2011 SB25-10.0-072811 10 - 10 ft	SB-26 03/04/2021 SB-26-5.5-6.5 5.5 - 6.5 ft	SB-26 03/04/2021 SB-26-12.5 12.5 ft	SB-26 03/04/2021 SB-26-18-20 18 - 20 ft
Alpha-BHC	319-84-6	mg/kg	9.82E-08	SL-6				-	< 0.00249 U	< 0.0005 U	
Beta-BHC	319-85-7	mg/kg	3.4E-06	SL-6			-		< 0.00249 U	< 0.006 U	
cis-Chlordane	5103-71-9	mg/kg	5.29E-06	SL-7					< 0.00249 U	< 0.0005 U	
cis-Nonachlor	5103-73-1	mg/kg				-	-		< 0.00498 U	< 0.001 U	-
Delta-BHC	319-86-8	ma/ka	6	SL-9		-	-		< 0.00249 U	< 0.0005 U	-
Dieldrin	60-57-1	mg/kg	3.09E-08	SL-6					< 0.00498 U	< 0.001 U	
Endosulfan I	959-98-8	ma/ka	6.13E-05	SL-6		-	-		< 0.00249 U	< 0.0005 U	-
Endosulfan II	33213-65-9	ma/ka	6.13E-05	SL-6		-	-		< 0.00498 U	< 0.001 U	-
Endosulfan Sulfate	1031-07-8	mg/kg	0.101	SL-6			-		< 0.00498 U	< 0.001 U	-
Endrin	72-20-8	mg/kg	2.22E-05	SL-6		-	-		< 0.00498 U	< 0.001 UJ	-
Endrin Aldehyde	7421-93-4	mg/kg	0.000124	SL-6		-	-		< 0.00498 U	< 0.001 U	-
Endrin ketone	53494-70-5	ma/ka				-	-		< 0.00498 U	< 0.001 U	-
Heptachlor	76-44-8	ma/ka	3.34E-09	SL-6					< 0.00249 U	< 0.0005 U	
Heptachlor Epoxide	1024-57-3	ma/ka	2.49E-08	SL-6		_			< 0.00249 U	< 0.003 U	-
Lindane	58-89-9	ma/ka	0.000205	SL-6		_			< 0.00249 U	< 0.0005 U	
Methoxychlor	72-43-5	mg/kg	0.00161	SL-6		_			< 0.0249 U	< 0.005 U	
Mirex	2385-85-5	ma/ka	0.000357	SL-6					< 0.00498 U	< 0.001 U	
Oxychlordane	27304-13-8	mg/kg	0.000001	02.0					< 0.00498 U	< 0.001 U	
Total Chlordane	57-74-9	ma/ka	1.13E-06	SL-6		_					
Toxaphene	8001-35-2	mg/kg	3.07E-06	SL-6					-		
trans-Chlordane	5103-74-2	ma/ka	5.29E-06	SL-7					< 0.00249 U	< 0.0005 U	
trans-Nonachlor	39765-80-5	mg/kg					-		< 0.00498 U	< 0.001 U	
Total Petroleum Hydrocarbons											
Gasoline Range Organics	TPH-GRO	ma/ka	30	SL-6					< 6.33 U	< 7.48 U	
Diesel Range Organics	TPH-DRO	ma/ka	260	SL-9	< 32 U	< 27 U	< 28 U	< 28 U	< 59.1 U	< 65.1 U	
Motor Oil Range Organics	TPH-ORO	ma/ka	260	SL-9	< 63 U	< 54 U	< 55 U	< 56 U	186	< 130 U	
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	< 63 U	< 54 U	< 55 U	< 56 U	186	< 130 U	-
Volatile Organic Compounds											
1.1.1.2-Tetrachloroethane	630-20-6	ma/ka	18.7	SL-7					< 0.00107 U	< 0.00113 U	
1.1.1-Trichloroethane	71-55-6	ma/ka	21.1	SL-6		-	-		< 0.00107 U	< 0.00113 U	-
1.1.2.2-Tetrachloroethane	79-34-5	ma/ka	0.00011	SL-6					< 0.00107 U	< 0.00113 U	
1.1.2-Trichloroethane	79-00-5	mg/kg	0.000326	SL-6		-	-		< 0.00107 U	< 0.00113 U	-
1.1.2-Trichlorotrifluoroethane	76-13-1	ma/ka	812000	SL-7		-	-		< 0.00214 U	< 0.00226 U	-
1.1-Dichloroethane	75-34-3	mg/kg	108	SL-7		-	-		< 0.00107 U	< 0.00113 U	-
1.1-Dichloroethene	75-35-4	ma/ka	1.41	SL-6		-	-		< 0.00107 U	< 0.00113 U	-
1.1-Dichloropropene	563-58-6	mg/kg							< 0.00107 U	< 0.00113 U	
1,2,3-Trichlorobenzene	87-61-6	mg/kg	12.1	SL-7		_			< 0.00536 U	< 0.00565 U	
1.2.3-Trichloropropane	96-18-4	mg/kg	0.00273	SL-7					< 0.00214 U	< 0.00226 U	
1.2.4-Trichlorobenzene	120-82-1	mg/kg	0.00188	SL-7			-		< 0.00536 U	< 0.00565 U	-
1,2,4-Trimethylbenzene	95-63-6	mg/kg	179	SL-7		-	-		0.00039 J	< 0.00113 U	-
1.2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.102	SL-7					< 0.00536 U	< 0.00565 U	
1.2-Dibromoethane (EDB)	106-93-4	ma/ka	0.277	SL-7					< 0.00107 U	< 0.00113 U	
1.2-Dichlorobenzene	95-50-1	ma/ka	0.00299	SL-7		_			< 0.00107 U	< 0.00113 U	
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.0237	SL-6		-	-		< 0.00107 U	< 0.00113 U	-
1,2-Dichloropropane	78-87-5	mg/kg	0.00103	SL-6		-			< 0.00107 U	< 0.00113 U	
1,3,5-Trimethylbenzene	108-67-8	mg/kg	180	SL-7		_			0.00035 J	< 0.00113 U	-
1.3-Dichlorobenzene	541-73-1	mg/kg	0.00132	SL-6		_			< 0.00107 U	< 0.00113 U	
1,3-Dichloropropane	142-28-9	mg/kg	884	SL-7		_			< 0.00107 U	< 0.00113 U	
1.4-Dichloro-2-Butene	110-57-6	ma/ka				-			< 0.00536 U	< 0.00565 U	
1.4-Dichlorobenzene	106-46-7	ma/ka	0.00807	SL-7		_			< 0.00107 U	< 0.00113 U	
2.2-Dichloropropane	594-20-7	mg/kg	0.0000						< 0.00107 U	< 0.00113 U	
	78-93-3	ma/ka	48000	SL-1					0.00493 J	0.00972	
2-Butanone			.0000						< 0.00536 U	< 0.00565 UJ	
2-Butanone 2-Chloroethyl Vinyl Ether	110-75-8	ma/ka									
2-Chloroethyl Vinyl Ether	110-75-8 95-49-8	mg/kg mg/ka	414	SL-7		-			< 0.00107 U		
	110-75-8 95-49-8 591-78-6	mg/kg mg/kg mg/kg	414 400	SL-7 SL-1						< 0.00113 U < 0.00565 U	

				Location Date Sample Depth	SB-27 03/09/2021 SB-27-8-9 8 - 9 ft	SB-27 03/09/2021 SB-27-18-20 18 - 20 ft	SB-28 03/01/2021 SB-28-14.5-15.5 14.5 - 15.5 ft	SB-30 03/01/2021 SB-30-11.5-12.5 11.5 - 12.5 ft	SB-30 03/01/2021 SB-30-12.5-14.5 12.5 - 14.5 ft	SB-30 03/01/2021 SB-30-23-25 23 - 25 ft	SB-31 03/01/2021 SB-31-10-11 10 - 11 ft
Alpha-BHC	319-84-6	mg/kg	9.82E-08	SL-6	-		-			-	-
Beta-BHC	319-85-7	mg/kg	3.4E-06	SL-6		-	-			-	-
cis-Chlordane	5103-71-9	mg/kg	5.29E-06	SL-7		-					
cis-Nonachlor	5103-73-1	ma/ka	0.202 00	02.7		-			_		
Delta-BHC	319-86-8	ma/ka	6	SL-9		-					-
Dieldrin	60-57-1	ma/ka	3.09E-08	SL-6						-	
Endosulfan I	959-98-8	mg/kg	6.13E-05	SL-6		-					
Endosulfan II	33213-65-9	mg/kg	6.13E-05	SL-6		_	-				
Endosulfan Sulfate	1031-07-8	ma/ka	0.101	SL-6		_					-
Endrin	72-20-8	ma/ka	2.22E-05	SL-6		-					
Endrin Aldehyde	7421-93-4	ma/ka	0.000124	SL-6							-
Endrin ketone	53494-70-5	ma/ka	0.000121	02.0							-
Heptachlor	76-44-8	ma/ka	3.34E-09	SL-6							
Heptachlor Epoxide	1024-57-3	ma/ka	2.49E-08	SL-6							
Lindane	58-89-9	mg/kg	0.000205	SL-6		_					-
Methoxychlor	72-43-5	mg/kg	0.000203	SL-6						-	
Mirex	2385-85-5	mg/kg	0.000357	SL-6							
Oxychlordane	27304-13-8	ma/ka	0.000331	OL-0		-				-	
Total Chlordane	57-74-9	ma/ka	1.13E-06	SL-6							
Toxaphene	8001-35-2	ma/ka	3.07E-06	SL-6						-	
trans-Chlordane	5103-74-2	ma/ka	5.29E-06	SL-7		-	-			-	-
trans-Nonachlor	39765-80-5	ma/ka	3.29E-00	SL-1							
Total Petroleum Hydrocarbons	38703-60-3	IIIg/kg						<u></u>			
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-6	7.64		< 7.46 U		< 7 U	< 8.2 U	
Diesel Range Organics	TPH-GRO	mg/kg	260	SL-6 SL-9	< 60.2 U	-	< 62.1 U	< 67.7 U	< 64.7 U	< 69.6 U	-
Motor Oil Range Organics	TPH-DRO	ma/ka	260	SL-9	284		< 124 U	< 135 U	< 129 U	< 139 U	
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg	260	SL-9	284	-	< 124 U	< 135 U	< 129 U	< 139 U	
Volatile Organic Compounds	IPH-EAI	mg/kg	200	SL-9	204	-	< 124 U	× 135 U	< 129 U	< 139 U	-
1.1.1.2-Tetrachloroethane	630-20-6	ma/ka	18.7	SL-7	< 0.00094 U	I	< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
1.1.1-Trichloroethane	71-55-6	mg/kg	21.1	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
1.1.2.2-Tetrachloroethane	79-34-5	mg/kg	0.00011	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
1,1,2,7-retrachioroethane	79-34-5	mg/kg	0.00011	SL-6	< 0.00094 U	-	< 0.00141 U		< 0.00128 UJ	< 0.00149 U	-
1.1.2-Trichlorotrifluoroethane	76-13-1	ma/ka	812000	SL-7	< 0.00189 U	-	< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
1.1-Dichloroethane	75-34-3	ma/ka	108	SL-7	< 0.00189 U		< 0.00263 U		< 0.00237 UJ	< 0.00299 U	
1.1-Dichloroethene	75-34-3	ma/ka	1.41	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
1,1-Dichloropropene	563-58-6	mg/kg	1.41	SL-0	< 0.00094 U	-	< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
1,2,3-Trichlorobenzene	87-61-6	mg/kg	12.1	SL-7	< 0.00472 U		< 0.00141 U		< 0.00642 UJ	< 0.00747 U	
1.2.3-Trichloropropane	96-18-4	ma/ka	0.00273	SL-7	< 0.00472 U		< 0.00707 U		< 0.00257 UJ	< 0.00747 U	
1,2,3-Trichloropropane 1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.00273	SL-7	< 0.00169 U	-	< 0.00263 U		< 0.00257 UJ < 0.00642 UJ	< 0.00299 U < 0.00747 U	
1,2,4-Trichlorobenzene	95-63-6	mg/kg	179	SL-7	< 0.00472 U	-	< 0.00707 U		< 0.00128 UJ	< 0.00747 U	
1,2-Dibromo-3-chloropropane	95-63-6	mg/kg	0.102	SL-7	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
1,2-Dibromoethane (EDB)	106-93-4	ma/ka	0.102	SL-7	< 0.00472 U		< 0.00707 U		< 0.00642 UJ	< 0.00747 U	
1,2-Dibromoetriane (EDB) 1,2-Dichlorobenzene	95-50-1		0.00299	SL-7	< 0.00094 U	-	< 0.00141 U		< 0.00128 UJ	< 0.00149 U	-
1,2-Dichlorobenzene 1,2-Dichloroethane (EDC)	107-06-2	mg/kg mg/kg	0.00299	SL-7 SL-6	< 0.00094 U	-	< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
	78-87-5			SL-6	< 0.00094 U		< 0.00141 U			< 0.00149 U	
1,2-Dichloropropane	78-87-5 108-67-8	mg/kg	0.00103 180	SL-6 SL-7	< 0.00094 U < 0.00094 U	-	< 0.00141 U < 0.00141 U		< 0.00128 UJ < 0.00128 UJ	< 0.00149 U < 0.00149 U	
1,3,5-Trimethylbenzene	108-67-8 541-73-1	mg/kg	0.00132	SL-7 SL-6	< 0.00094 U < 0.00094 U		< 0.00141 U < 0.00141 U		< 0.00128 UJ < 0.00128 UJ	< 0.00149 U	
1,3-Dichlorobenzene 1.3-Dichloropropane	541-73-1 142-28-9	mg/kg	0.00132 884	SL-6 SL-7	< 0.00094 U < 0.00094 U		< 0.00141 U < 0.00141 U		< 0.00128 UJ < 0.00128 UJ	< 0.00149 U < 0.00149 U	
1,3-Dichloropropane 1.4-Dichloro-2-Butene	142-28-9 110-57-6	mg/kg	004	OL-/	< 0.00094 U < 0.00472 U		< 0.00141 U < 0.00707 U		< 0.00128 UJ < 0.00642 UJ	< 0.00149 U < 0.00747 U	
	110-57-6 106-46-7	mg/kg	0.00807	SL-7	< 0.00472 U 0.0005 J		< 0.00707 U < 0.00141 U			< 0.00747 U < 0.00149 U	-
1,4-Dichlorobenzene		mg/kg	0.00807	SL-/					< 0.00128 UJ		
2,2-Dichloropropane	594-20-7	mg/kg	40000	01.1	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	-
2-Butanone	78-93-3 110-75-8	mg/kg	48000	SL-1	< 0.00472 U		< 0.00707 U		< 0.00642 UJ	< 0.00747 U	
		mg/kg	1		< 0.00472 UJ		< 0.00707 UJ		< 0.00642 UJ	< 0.00747 UJ	
2-Chloroethyl Vinyl Ether			4.1.1	-	- 0 00000111	l					
	95-49-8 591-78-6	mg/kg mg/ka	414 400	SL-7 SL-1	< 0.00094 U < 0.00472 U		< 0.00141 U < 0.00707 U		< 0.00128 UJ < 0.00642 UJ	< 0.00149 U < 0.00747 U	

Table B.2. Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-31 03/01/2021 SB-31-13-14.5 13 - 14.5 ft	SB-31 03/01/2021 SB-31-19-20 19 - 20 ft	SB-32 03/08/2021 SB-32-7-8 7 - 8 ft	SB-33 03/03/2021 SB-33-5.5-6.5 5.5 - 6.5 ft	SB-34 03/01/2021 SB-34-5.5-6.5 5.5 - 6.5 ft
Alpha-BHC	319-84-6	mg/kg	9.82E-08	SL-6	-		-		
Beta-BHC	319-85-7	mg/kg	3.4E-06	SL-6	-	-			
cis-Chlordane	5103-71-9	mg/kg	5.29E-06	SL-7		_	_		-
cis-Nonachlor	5103-73-1	ma/ka			-	-	-		
Delta-BHC	319-86-8	mg/kg	6	SL-9	-		-		
Dieldrin	60-57-1	ma/ka	3.09E-08	SL-6		_	_		-
Endosulfan I	959-98-8	mg/kg	6.13E-05	SL-6		-	-		
Endosulfan II	33213-65-9	mg/kg	6.13E-05	SL-6	-	-			
Endosulfan Sulfate	1031-07-8	mg/kg	0.101	SL-6		-			
Endrin	72-20-8	mg/kg	2.22E-05	SL-6					
Endrin Aldehyde	7421-93-4	mg/kg	0.000124	SL-6	-		-		
Endrin ketone	53494-70-5	mg/kg			-	-			
Heptachlor	76-44-8	ma/ka	3.34E-09	SL-6		_	_		-
Heptachlor Epoxide	1024-57-3	mg/kg	2.49E-08	SL-6	-				
Lindane	58-89-9	mg/kg	0.000205	SL-6	-				
Methoxychlor	72-43-5	mg/kg	0.00161	SL-6	-				
Mirex	2385-85-5	mg/kg	0.000357	SL-6	-				
Oxychlordane	27304-13-8	mg/kg			-		-		-
Total Chlordane	57-74-9	mg/kg	1.13E-06	SL-6					
Toxaphene	8001-35-2	ma/ka	3.07E-06	SL-6		_	_		-
trans-Chlordane	5103-74-2	ma/ka	5.29E-06	SL-7		_	_		-
trans-Nonachlor	39765-80-5	mg/kg			-	-	-		
Total Petroleum Hydrocarbons								•	•
Gasoline Range Organics	TPH-GRO	mg/kg	30	SL-6	5440	81.6	-		< 8.06 U
Diesel Range Organics	TPH-DRO	mg/kg	260	SL-9	< 67.8 U	< 62.8 U	-		< 62.8 U
Motor Oil Range Organics	TPH-ORO	mg/kg	260	SL-9	< 136 U	< 126 U	-		< 126 U
Diesel and Oil Extended Range Organics	TPH-EXT	ma/ka	260	SL-9	< 136 U	< 126 U	_		< 126 U
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	18.7	SL-7	< 7.93 U	< 0.0014 U			< 0.00122 U
1,1,1-Trichloroethane	71-55-6	mg/kg	21.1	SL-6	< 7.93 U	< 0.0014 U			< 0.00122 U
1.1.2.2-Tetrachloroethane	79-34-5	mg/kg	0.00011	SL-6	< 7.93 U	< 0.0014 U	_		< 0.00122 U
1,1,2-Trichloroethane	79-00-5	mg/kg	0.000326	SL-6	< 7.93 U	< 0.0014 U			< 0.00122 U
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg	812000	SL-7	< 15.9 U	< 0.0028 U			< 0.00245 U
1,1-Dichloroethane	75-34-3	mg/kg	108	SL-7	< 7.93 U	< 0.0014 U			< 0.00122 U
1,1-Dichloroethene	75-35-4	mg/kg	1.41	SL-6	< 7.93 U	0.00575	-		< 0.00122 U
1,1-Dichloropropene	563-58-6	mg/kg			< 7.93 U	< 0.0014 U			< 0.00122 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	12.1	SL-7	< 39.7 U	< 0.00699 U			< 0.00612 U
1,2,3-Trichloropropane	96-18-4	mg/kg	0.00273	SL-7	< 15.9 U	< 0.0028 U	-		< 0.00245 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.00188	SL-7	< 39.7 U	< 0.00699 U			< 0.00612 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	179	SL-7	84.2	< 0.0014 U		-	< 0.00122 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.102	SL-7	< 39.7 U	< 0.00699 U			< 0.00612 U
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.277	SL-7	< 7.93 U	< 0.0014 U			< 0.00122 U
1,2-Dichlorobenzene	95-50-1	mg/kg	0.00299	SL-7	< 7.93 U	< 0.0014 U		-	< 0.00122 U
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	0.0237	SL-6	< 7.93 U	< 0.0014 U		-	< 0.00122 U
1,2-Dichloropropane	78-87-5	mg/kg	0.00103	SL-6	< 7.93 U	< 0.0014 U	-		< 0.00122 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	180	SL-7	125	0.00047 J	-		< 0.00122 U
1,3-Dichlorobenzene	541-73-1	mg/kg	0.00132	SL-6	< 7.93 U	< 0.0014 U	-		< 0.00122 U
1,3-Dichloropropane	142-28-9	mg/kg	884	SL-7	< 7.93 U	< 0.0014 U	-		< 0.00122 U
1,4-Dichloro-2-Butene	110-57-6	mg/kg			< 39.7 U	< 0.00699 U			< 0.00612 U
1,4-Dichlorobenzene	106-46-7	mg/kg	0.00807	SL-7	< 7.93 U	< 0.0014 U	-		< 0.00122 U
2,2-Dichloropropane	594-20-7	mg/kg			< 7.93 U	< 0.0014 U	-		< 0.00122 U
2-Butanone	78-93-3	mg/kg	48000	SL-1	< 39.7 U	< 0.00699 U	-		< 0.00612 U
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg			< 39.7 UJ	< 0.00699 UJ	-		< 0.00612 UJ
2-Chlorotoluene	95-49-8	mg/kg	414	SL-7	< 7.93 U	< 0.0014 U	-		< 0.00122 U
2-Hexanone	591-78-6	mg/kg	400	SL-1	< 39.7 U	< 0.00699 U			< 0.00612 U
2-Pentanone	107-87-9	mg/kg			< 39.7 UJ	< 0.00699 UJ	-		< 0.00612 UJ

Project No. 190293, South Park Marina, Seattle, Washington

				Location	B-01	B-02	B-03	B-04	MW-04	MW-04	MW-04
				Date	11/17/2017	11/17/2017	11/17/2017	11/17/2017	03/04/2021	03/04/2021	03/04/2021
				Sample	B-01-8.5-9.5	B-02-6.5-7	B-03-6.5-7	B-04-6.5-7	MW-4-7-8	MW-4-10.5-11.5	MW-4-13.5-14.5
			ı	Depth	8.5 - 9.5 ft	6.5 - 7 ft	6.5 - 7 ft	6.5 - 7 ft	7 - 8 ft	10.5 - 11.5 ft	13.5 - 14.5 ft
4-Chlorotoluene	106-43-4	mg/kg				-	-		< 0.057 U	< 0.00183 U	< 0.00133 U
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1			-	-	< 0.285 U	< 0.00917 U	< 0.00667 U
Acetone	67-64-1	mg/kg	72000	SL-1		-	-	-	< 0.285 U	0.121	0.0839 J
Acrolein	107-02-8	mg/kg	0.000316	SL-6		-	-	-	< 0.285 U	< 0.00917 U	< 0.00667 U
Acrylonitrile	107-13-1	mg/kg	8.26E-06	SL-6		-	-	-	< 0.285 U	< 0.00917 U	< 0.00667 U
Benzene	71-43-2	mg/kg	0.000558	SL-6	-	-	-	-	< 0.057 U	0.00356	< 0.00133 U
Bromobenzene	108-86-1	mg/kg	201	SL-7				-	< 0.057 U	< 0.00183 U	< 0.00133 U
Bromochloromethane	74-97-5	mg/kg						-	< 0.057 U	< 0.00183 U	< 0.00133 U
Bromodichloromethane	75-27-4	mg/kg	0.000892	SL-6				-	< 0.057 U	< 0.00183 U	< 0.00133 U
Bromoform	75-25-2	mg/kg	0.00495	SL-6				-	< 0.057 U	< 0.00183 U	< 0.00133 U
Bromomethane	74-83-9	mg/kg	0.0792	SL-6				-	0.115	< 0.00183 U	< 0.00133 U
Carbon Disulfide	75-15-0	mg/kg	7390	SL-7				-	< 0.057 U	0.00325	< 0.00133 U
Carbon Tetrachloride	56-23-5	mg/kg	0.000154	SL-6					< 0.057 U	< 0.00183 U	< 0.00133 U
Chlorobenzene	108-90-7	mg/kg	0.102	SL-6					< 0.057 U	< 0.00183 U	< 0.00133 U
Chloroethane	75-00-3	mg/kg				-		-	< 0.057 U	< 0.00367 U	< 0.00267 U
Chloroform	67-66-3	mg/kg	0.0524	SL-6		-		-	< 0.057 U	< 0.00183 U	< 0.00133 U
Chloromethane	74-87-3	mg/kg							< 0.057 U	< 0.00183 U	< 0.00133 U
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	117	SL-7				-	< 0.057 U	< 0.00183 U	< 0.00133 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.000376	SL-6				-	< 0.057 U	< 0.00183 U	< 0.00133 U
Dibromochloromethane	124-48-1	mg/kg	0.000701	SL-6					< 0.057 U	< 0.00183 U	< 0.00133 U
Dibromomethane	74-95-3	mg/kg	472	SL-7					< 0.057 U	< 0.00183 U	< 0.00133 U
Dichlorodifluoromethane	75-71-8	mg/kg	11200	SL-7				-	< 0.057 U	< 0.00183 U	< 0.00133 U
Ethylbenzene	100-41-4	mg/kg	0.0103	SL-6				-	< 0.057 U	< 0.00183 U	< 0.00133 U
Isopropylbenzene	98-82-8	ma/ka	1730	SL-7		-		-	< 0.057 U	< 0.00183 U	< 0.00133 U
m.p-Xvlenes	179601-23-1	ma/ka				-		-	< 0.114 U	0.00323 J	< 0.00267 U
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1				-	< 0.057 U	< 0.00183 U	< 0.00133 U
Methylene Chloride	75-09-2	ma/ka	0.0297	SL-6		-		-	0.114 J	< 0.00917 U	< 0.00667 U
Methyliodide	74-88-4	ma/ka				-		-	< 0.057 U	< 0.00183 U	< 0.00133 U
n-Butylbenzene	104-51-8	ma/ka	748	SL-7		-		-	< 0.057 U	< 0.00183 U	< 0.00133 U
n-Propylbenzene	103-65-1	ma/ka	1670	SL-7		-		-	< 0.057 U	< 0.00183 U	< 0.00133 U
o-Xvlene	95-47-6	ma/ka							< 0.057 U	0.00512	< 0.00133 U
p-Isopropyltoluene	99-87-6	ma/ka			-		_		< 0.057 U	< 0.00183 U	< 0.00133 U
sec-Butvlbenzene	135-98-8	ma/ka	1520	SL-7		-		-	< 0.057 U	0.00431	< 0.00133 U
Styrene	100-42-5	mg/kg	300	SL-9	-	-			< 0.057 U	< 0.00183 U	< 0.00133 U
tert-Butvlbenzene	98-06-6	ma/ka	1600	SL-7					< 0.057 U	0.0008 J	< 0.00133 U
Tetrachloroethene (PCE)	127-18-4	ma/ka	0.0016	SL-6	-		_		< 0.057 U	< 0.00183 U	< 0.00133 U
Toluene	108-88-3	ma/ka	0.0435	SL-6			-	-	< 0.057 U	0.00116 J	0.00035 J
Total Xvienes	1330-20-7	ma/ka	0.0551	SL-6					< 0.114 U	0.00836	< 0.00267 U
trans-1.2-Dichloroethene	156-60-5	mg/kg	0.325	SL-6					< 0.057 U	< 0.00183 U	< 0.00207 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.000376	SL-6					< 0.057 U	< 0.00183 U	< 0.00133 U
Trichloroethene (TCE)	79-01-6	mg/kg	0.000266	SL-6					< 0.057 U	< 0.00183 U	< 0.00133 U
Trichlorofluoromethane	75-69-4	mg/kg	16800	SL-7				-	< 0.057 U	< 0.00163 U	< 0.00153 U
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1					< 0.285 U	< 0.00307 U	< 0.00267 U
Vinyl Chloride	75-01-4	mg/kg	5.55E-05	SL-6					< 0.253 U	< 0.00317 U	< 0.00007 U
Conventionals	75-01-4	шулу	J.JJL-03	OL-0					V 0.001 U	V 0.00103 0	~ 0.00 100 U
Total Organic Carbon	TOC	%			_	l <u>-</u>		1	2.28	1.49	1.05
Total Solids	TS		1		-		-	-	79.75	63.22	76.83
TULAI JUIIUS	10	70			-	_			19.15	03.22	70.03

Saturated soil is defined as being greater than 6 feet below ground surface (bgs).

Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-6 Direct Contact Unrestricted
Protect Surface Water via Ground Water Saturated Zone SL-7 Protect Sediment via Groundwater Saturated Zone SL-9 Site-Specific TEE Unrestricted

SL-10 Natural Background

Aspect Consulting

Project No. 190293, South Park Marina, Seattle, Washington

				Location	MW-04	MW-05	MW-05	MW-05	MW-05	MW-05	MW-06
				Date	03/04/2021	03/05/2021	03/05/2021	03/05/2021	03/05/2021	03/05/2021	03/05/2021
				Sample	MW-4-18-20	MW-5-6-7	MW-5-8-9.5	MW-5-15-16	MW-5-20-22.5	MW-5-26.5-28	MW-6-9
				Depth	18 - 20 ft	6 - 7 ft	8 - 9.5 ft	15 - 16 ft	20 - 22.5 ft	26.5 - 28 ft	9 ft
4-Chlorotoluene	106-43-4	mg/kg			< 0.00138 U	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1	< 0.00688 U	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U	< 0.00653 U
Acetone	67-64-1	mg/kg	72000	SL-1	0.0551	0.204	0.07	0.07	0.0612	0.0786	0.0559
Acrolein	107-02-8	mg/kg	0.000316	SL-6	< 0.00688 U	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U	< 0.00653 U
Acrylonitrile	107-13-1	mg/kg	8.26E-06	SL-6	< 0.00688 U	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U	< 0.00653 U
Benzene	71-43-2	mg/kg	0.000558	SL-6	< 0.00138 U	0.00079 J	0.00055 J	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Bromobenzene	108-86-1	mg/kg	201	SL-7	< 0.00138 U	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Bromochloromethane	74-97-5	mg/kg			< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Bromodichloromethane	75-27-4	mg/kg	0.000892	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Bromoform	75-25-2	mg/kg	0.00495	SL-6	< 0.00138 U	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Bromomethane	74-83-9	mg/kg	0.0792	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Carbon Disulfide	75-15-0	mg/kg	7390	SL-7	0.00231	0.00414	0.0132 J	0.00161	0.00489	< 0.00147 U	< 0.00131 U
Carbon Tetrachloride	56-23-5	mg/kg	0.000154	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Chlorobenzene	108-90-7	mg/kg	0.102	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Chloroethane	75-00-3	mg/kg			< 0.00275 U	< 0.00238 U	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U	< 0.00261 U
Chloroform	67-66-3	mg/kg	0.0524	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Chloromethane	74-87-3	mg/kg			< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	117	SL-7	< 0.00138 UJ	0.00081 J	0.00037 J	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 UJ
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.000376	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Dibromochloromethane	124-48-1	mg/kg	0.000701	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Dibromomethane	74-95-3	mg/kg	472	SL-7	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Dichlorodifluoromethane	75-71-8	mg/kg	11200	SL-7	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Ethylbenzene	100-41-4	mg/kg	0.0103	SL-6	< 0.00138 U	0.0105	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Isopropylbenzene	98-82-8	mg/kg	1730	SL-7	< 0.00138 U	0.206 J	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
m,p-Xylenes	179601-23-1	mg/kg			< 0.00275 U	0.0571	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U	< 0.00261 U
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Methylene Chloride	75-09-2	mg/kg	0.0297	SL-6	< 0.00688 U	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U	< 0.00653 U
Methyliodide	74-88-4	mg/kg			< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
n-Butylbenzene	104-51-8	mg/kg	748	SL-7	< 0.00138 U	0.333	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
n-Propylbenzene	103-65-1	mg/kg	1670	SL-7	< 0.00138 U	0.259	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
o-Xylene	95-47-6	mg/kg			< 0.00138 U	0.0656	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
p-Isopropyltoluene	99-87-6	mg/kg			< 0.00138 U	0.0183	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
sec-Butylbenzene	135-98-8	mg/kg	1520	SL-7	< 0.00138 U	0.195	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Styrene	100-42-5	mg/kg	300	SL-9	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
tert-Butylbenzene	98-06-6	mg/kg	1600	SL-7	< 0.00138 U	< 0.00119 UJ	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0016	SL-6	< 0.00138 U	< 0.00119 U	0.00307 J	< 0.00128 U	< 0.00126 U	< 0.00147 U	0.00381
Toluene	108-88-3	mg/kg	0.0435	SL-6	< 0.00138 U	0.00444	0.00037 J	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Total Xylenes	1330-20-7	mg/kg	0.0551	SL-6	< 0.00275 U	0.123	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U	< 0.00261 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.325	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.000376	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Trichloroethene (TCE)	79-01-6	mg/kg	0.000266	SL-6	< 0.00138 U	0.0007 J	0.00063 J	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Trichlorofluoromethane	75-69-4	mg/kg	16800	SL-7	< 0.00275 U	< 0.00238 U	< 0.00202 U	< 0.00255 U	< 0.00252 U	< 0.00294 U	< 0.00261 U
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1	< 0.00688 U	< 0.00596 U	< 0.00504 U	< 0.00638 U	< 0.00629 U	< 0.00736 U	< 0.00653 U
Vinyl Chloride	75-01-4	mg/kg	5.55E-05	SL-6	< 0.00138 U	< 0.00119 U	< 0.00101 U	< 0.00128 U	< 0.00126 U	< 0.00147 U	< 0.00131 U
Conventionals											
Total Organic Carbon	TOC	%					0.21	0.1	< 0.02 U	0.38	0.07
Total Solids	TS	%				-	73.26	77.46	82.32	79.26	75.25

Saturated soil is defined as being greater than 6 feet below ground surface (bgs).

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes:

SL-1	Direct Contact Unrestricted
SL-6	Protect Surface Water via Ground Water Saturated Zone
SL-7	Protect Sediment via Groundwater Saturated Zone
SL-9	Site-Specific TEE Unrestricted
SL-10	Natural Background

Project No. 190293, South Park Marina, Seattle, Washington

				Location	MW-06	MW-07	MW-08	MW-08	MW-10	MW-11	MW-12
				Date Sample Depth	03/05/2021 MW-6-18-20 18 - 20 ft	03/09/2021 MW-7-17-19 17 - 19 ft	03/09/2021 MW-8-8-9 8 - 9 ft	03/09/2021 MW-8-18-20 18 - 20 ft	03/08/2021 MW-10-5.5-6.5 5.5 - 6.5 ft	03/08/2021 MW-11-6-7 6 - 9 ft	03/03/2021 MW-12-9.5-10.5 9.5 - 10.5 ft
4-Chlorotoluene	106-43-4	ma/ka			< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1	< 0.00582 U	-	< 0.00574 U		< 0.00508 U	< 0.00563 U	
Acetone	67-64-1	ma/ka	72000	SL-1	0.0136		0.0763		0.126	0.0943	
Acrolein	107-02-8	ma/ka	0.000316	SL-6	< 0.00582 U	-	< 0.00574 U		< 0.00508 U	< 0.00563 U	-
Acrylonitrile	107-13-1	ma/ka	8.26E-06	SL-6	< 0.00582 U	-	< 0.00574 UJ		< 0.00508 U	< 0.00563 U	
Benzene	71-43-2	ma/ka	0.000558	SL-6	0.00118		< 0.00115 U		0.0006 J	0.00075 J	
Bromobenzene	108-86-1	ma/ka	201	SL-7	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
Bromochloromethane	74-97-5	ma/ka			< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
Bromodichloromethane	75-27-4	ma/ka	0.000892	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
Bromoform	75-25-2	ma/ka	0.00495	SL-6	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
Bromomethane	74-83-9	ma/ka	0.0792	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
Carbon Disulfide	75-15-0	ma/ka	7390	SL-7	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
Carbon Tetrachloride	56-23-5	ma/ka	0.000154	SL-6	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
Chlorobenzene	108-90-7	ma/ka	0.102	SL-6	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
Chloroethane	75-00-3	ma/ka			< 0.00233 U	-	< 0.0023 U		< 0.00203 U	< 0.00225 U	
Chloroform	67-66-3	ma/ka	0.0524	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
Chloromethane	74-87-3	ma/ka			< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
cis-1.2-Dichloroethene (cDCE)	156-59-2	ma/ka	117	SL-7	< 0.00116 UJ	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
cis-1.3-Dichloropropene	10061-01-5	ma/ka	0.000376	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
Dibromochloromethane	124-48-1	ma/ka	0.000701	SL-6	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
Dibromomethane	74-95-3	ma/ka	472	SL-7	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
Dichlorodifluoromethane	75-71-8	ma/ka	11200	SL-7	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
Ethylbenzene	100-41-4	mg/kg	0.0103	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
Isopropylbenzene	98-82-8	ma/ka	1730	SL-7	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
m.p-Xvlenes	179601-23-1	ma/ka			< 0.00233 U	-	< 0.0023 U		< 0.00203 U	< 0.00225 U	
Methyl tert-butyl ether (MTBE)	1634-04-4	ma/ka	556	SL-1	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
Methylene Chloride	75-09-2	ma/ka	0.0297	SL-6	< 0.00582 U		< 0.00574 U		< 0.00508 U	< 0.00563 U	
Methyliodide	74-88-4	ma/ka			< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
n-Butvlbenzene	104-51-8	ma/ka	748	SL-7	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
n-Propylbenzene	103-65-1	ma/ka	1670	SL-7	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
o-Xvlene	95-47-6	ma/ka			< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
p-Isopropyltoluene	99-87-6	ma/ka			< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
sec-Butvlbenzene	135-98-8	ma/ka	1520	SL-7	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
Styrene	100-42-5	ma/ka	300	SL-9	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
tert-Butvlbenzene	98-06-6	ma/ka	1600	SL-7	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
Tetrachloroethene (PCE)	127-18-4	ma/ka	0.0016	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
Toluene	108-88-3	ma/ka	0.0435	SL-6	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
Total Xvlenes	1330-20-7	ma/ka	0.0551	SL-6	< 0.00233 U		< 0.0023 U		< 0.00203 U	< 0.00225 U	
trans-1,2-Dichloroethene	156-60-5	ma/ka	0.325	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.000376	SL-6	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
Trichloroethene (TCE)	79-01-6	ma/ka	0.000266	SL-6	< 0.00116 U		< 0.00115 U		< 0.00102 U	< 0.00113 U	
Trichlorofluoromethane	75-69-4	mg/kg	16800	SL-7	< 0.00233 U		< 0.0023 U		< 0.00203 U	< 0.00225 U	
Vinyl Acetate	108-05-4	ma/ka	80000	SL-1	< 0.00582 U	-	< 0.00574 U		< 0.00508 U	< 0.00563 U	
Vinyl Chloride	75-01-4	mg/kg	5.55E-05	SL-6	< 0.00116 U	-	< 0.00115 U		< 0.00102 U	< 0.00113 U	
Conventionals		Jra				•					
Total Organic Carbon	TOC	%			< 0.02 U		< 0.02 U		0.12	0.19	
Total Solids	TS	%			77.91	-	77.46		78.19	78.28	

Saturated soil is defined as being greater than 6 feet below ground surface (bgs).

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes:

SL-1	Direct Contact Unrestricted
SL-6	Protect Surface Water via Ground Water Saturated Zone
SL-7	Protect Sediment via Groundwater Saturated Zone
SL-9	Site-Specific TEE Unrestricted
SL-10	Natural Background

Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	MW-13 03/01/2021 MW-13-9.5-10.5 9.5 - 10.5 ft	MW-13 03/01/2021 MW-13-18-19.5 18 - 19.5 ft	SB-01 09/27/2007 SB-01-9 9 - 11 ft	SB-02 09/28/2007 SB-02-9 9 - 11 ft	SB-03 09/27/2007 SB-03-7 7 - 9 ft	SB-03 09/27/2007 SB-03-13.5 14 - 16 ft	SB-04 09/27/2007 SB-04-8 8 - 10 ft
4-Chlorotoluene	106-43-4	ma/ka			< 0.00125 U	< 0.00131 U	-		_	-	
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1	< 0.00627 U	< 0.00653 U	-		_	-	-
Acetone	67-64-1	ma/ka	72000	SL-1	0.0771 J	0.075					
Acrolein	107-02-8	mg/kg	0.000316	SL-6	< 0.00627 U	< 0.00653 U	-		_	-	-
Acrylonitrile	107-13-1	ma/ka	8.26E-06	SL-6	< 0.00627 U	< 0.00653 U	-		-	-	
Benzene	71-43-2	ma/ka	0.000558	SL-6	0.00064 J	0.00071 J	-		-		
Bromobenzene	108-86-1	ma/ka	201	SL-7	< 0.00125 U	< 0.00131 U	-		-		
Bromochloromethane	74-97-5	ma/ka			< 0.00125 U	< 0.00131 U	-		-	-	
Bromodichloromethane	75-27-4	ma/ka	0.000892	SL-6	< 0.00125 U	< 0.00131 U	-		-	-	
Bromoform	75-25-2	ma/ka	0.00495	SL-6	< 0.00125 U	< 0.00131 U	-		-		
Bromomethane	74-83-9	ma/ka	0.0792	SL-6	< 0.00125 U	< 0.00131 U	-		-	-	
Carbon Disulfide	75-15-0	ma/ka	7390	SL-7	< 0.00125 U	< 0.00131 U	-		-	-	
Carbon Tetrachloride	56-23-5	ma/ka	0.000154	SL-6	< 0.00125 U	< 0.00131 U	-		-		
Chlorobenzene	108-90-7	ma/ka	0.102	SL-6	< 0.00125 U	< 0.00131 U		-	-	-	
Chloroethane	75-00-3	ma/ka			< 0.00251 U	< 0.00261 U	-		-	-	
Chloroform	67-66-3	mg/kg	0.0524	SL-6	< 0.00125 U	< 0.00131 U			-		
Chloromethane	74-87-3	mg/kg			< 0.00125 U	< 0.00131 U					
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	117	SL-7	0.00812	0.00468 J	-			-	
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.000376	SL-6	< 0.00125 U	< 0.00131 U			-		
Dibromochloromethane	124-48-1	mg/kg	0.000701	SL-6	< 0.00125 U	< 0.00131 U					
Dibromomethane	74-95-3	mg/kg	472	SL-7	< 0.00125 U	< 0.00131 U	-		-		
Dichlorodifluoromethane	75-71-8	mg/kg	11200	SL-7	< 0.00125 U	< 0.00131 U			-		
Ethylbenzene	100-41-4	mg/kg	0.0103	SL-6	< 0.00125 U	< 0.00131 U			-		
Isopropylbenzene	98-82-8	mg/kg	1730	SL-7	< 0.00125 U	< 0.00131 U					
m,p-Xylenes	179601-23-1	mg/kg			< 0.00251 U	< 0.00261 U			-		
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1	< 0.00125 U	< 0.00131 U			-		
Methylene Chloride	75-09-2	mg/kg	0.0297	SL-6	0.0277	0.00729	-		-		
Methyliodide	74-88-4	mg/kg			< 0.00125 U	< 0.00131 U	-		-		
n-Butylbenzene	104-51-8	mg/kg	748	SL-7	< 0.00125 U	< 0.00131 U			-		
n-Propylbenzene	103-65-1	mg/kg	1670	SL-7	< 0.00125 U	< 0.00131 U			-		
o-Xylene	95-47-6	mg/kg			< 0.00125 U	< 0.00131 U	-		-		
p-Isopropyltoluene	99-87-6	mg/kg			< 0.00125 U	< 0.00131 U			-		
sec-Butylbenzene	135-98-8	mg/kg	1520	SL-7	< 0.00125 U	< 0.00131 U			-		
Styrene	100-42-5	mg/kg	300	SL-9	< 0.00125 U	< 0.00131 U	-	-	-	-	-
tert-Butylbenzene	98-06-6	mg/kg	1600	SL-7	< 0.00125 U	< 0.00131 U	-				
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0016	SL-6	3.28	7.44			-		
Toluene	108-88-3	mg/kg	0.0435	SL-6	< 0.00125 U	< 0.00131 U	-	-	-	-	-
Total Xylenes	1330-20-7	mg/kg	0.0551	SL-6	< 0.00251 U	< 0.00261 U	-		-		
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.325	SL-6	< 0.00125 U	< 0.00131 U	-		-		
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.000376	SL-6	< 0.00125 U	< 0.00131 U	-		-	-	
Trichloroethene (TCE)	79-01-6	mg/kg	0.000266	SL-6	0.0189	0.00654	-		-		
Trichlorofluoromethane	75-69-4	mg/kg	16800	SL-7	< 0.00251 U	< 0.00261 U	-		-		
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1	< 0.00627 U	< 0.00653 U	-		-	-	
Vinyl Chloride	75-01-4	mg/kg	5.55E-05	SL-6	< 0.00125 U	< 0.00131 U	-		-	-	
Conventionals											
Total Organic Carbon	TOC	%			0.13	0.2	-		-	-	
Total Solids	TS	%			80.04	71.36	84.3	82.7	81.5	84.2	71.8

Saturated soil is defined as being greater than 6 feet below ground surface (bgs).

Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-6 Direct Contact Unrestricted
Protect Surface Water via Ground Water Saturated Zone SL-7 Protect Sediment via Groundwater Saturated Zone SL-9 Site-Specific TEE Unrestricted

Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-05 09/27/2007 SB-05-8 8 - 10 ft	SB-06 09/28/2007 SB-06-8 8 - 10 ft	SB-07 09/28/2007 SB-07-9 9 - 11 ft	SB-08 09/27/2007 SB-08-9 9 - 11 ft	SB-09 09/27/2007 SB-09-10 10 - 12 ft	SB-10 09/28/2007 SB-10-14 14 - 16 ft	SB-13 10/01/2007 SB-13-7 7 - 9 ft
4-Chlorotoluene	106-43-4	ma/ka							-		-
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1		-			-		
Acetone	67-64-1	mg/kg	72000	SL-1	-						
Acrolein	107-02-8	mg/kg	0.000316	SL-6							
Acrylonitrile	107-13-1	ma/ka	8.26E-06	SL-6		-			-		
Benzene	71-43-2	ma/ka	0.000558	SL-6	-						
Bromobenzene	108-86-1	ma/ka	201	SL-7							
Bromochloromethane	74-97-5	ma/ka	201	02,		-			-		
Bromodichloromethane	75-27-4	ma/ka	0.000892	SL-6		-					
Bromoform	75-25-2	ma/ka	0.00495	SL-6					-		
Bromomethane	74-83-9	ma/ka	0.0792	SL-6		-			-		
Carbon Disulfide	75-15-0	mg/kg	7390	SL-7							
Carbon Tetrachloride	56-23-5	ma/ka	0.000154	SL-6							
Chlorobenzene	108-90-7	ma/ka	0.102	SL-6					_		
Chloroethane	75-00-3	ma/ka	0.102	02.0		-			-		
Chloroform	67-66-3	ma/ka	0.0524	SL-6		_					
Chloromethane	74-87-3	mg/kg				-					
cis-1.2-Dichloroethene (cDCE)	156-59-2	ma/ka	117	SL-7		_			_		
cis-1.3-Dichloropropene	10061-01-5	ma/ka	0.000376	SL-6		-			-		
Dibromochloromethane	124-48-1	mg/kg	0.000701	SL-6							
Dibromomethane	74-95-3	ma/ka	472	SL-7							
Dichlorodifluoromethane	75-71-8	ma/ka	11200	SL-7		-			-		
Ethylbenzene	100-41-4	ma/ka	0.0103	SL-6		-			-		
Isopropylbenzene	98-82-8	mg/kg	1730	SL-7		-					
m.p-Xvlenes	179601-23-1	ma/ka	1700	02,		_			_		
Methyl tert-butyl ether (MTBE)	1634-04-4	ma/ka	556	SL-1		_			-		
Methylene Chloride	75-09-2	mg/kg	0.0297	SL-6							
Methyliodide	74-88-4	ma/ka	0.0201	02.0		-					
n-Butylbenzene	104-51-8	mg/kg	748	SL-7		-			-		
n-Propylbenzene	103-65-1	ma/ka	1670	SL-7		_					
o-Xvlene	95-47-6	mg/kg				_			_		
p-Isopropyltoluene	99-87-6	ma/ka				_			-		
sec-Butvlbenzene	135-98-8	ma/ka	1520	SL-7		_					
Styrene	100-42-5	ma/ka	300	SL-9		_			_		
tert-Butvlbenzene	98-06-6	mg/kg	1600	SL-7							
Tetrachloroethene (PCE)	127-18-4	ma/ka	0.0016	SL-6		_			_		
Toluene	108-88-3	ma/ka	0.0435	SL-6		_			_		
Total Xvlenes	1330-20-7	mg/kg	0.0551	SL-6		_			_		
trans-1.2-Dichloroethene	156-60-5	mg/kg	0.325	SL-6		_			_		
trans-1.3-Dichloropropene	10061-02-6	ma/ka	0.000376	SL-6		_			_		
Trichloroethene (TCE)	79-01-6	mg/kg	0.000266	SL-6		_			_		
Trichlorofluoromethane	75-69-4	ma/ka	16800	SL-7		_			_		
Vinyl Acetate	108-05-4	ma/ka	80000	SL-1		_			_		
Vinyl Chloride	75-01-4	ma/ka	5.55E-05	SL-6		_			_		
Conventionals		Jr. 8					•				•
Total Organic Carbon	TOC	%				-					
Total Solids	TS	%			60.5	81.1	87.5	76.4	78.6	85.9	77.4

Saturated soil is defined as being greater than 6 feet below ground surface (bgs).

Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-6 Direct Contact Unrestricted
Protect Surface Water via Ground Water Saturated Zone SL-7 Protect Sediment via Groundwater Saturated Zone

SL-9 Site-Specific TEE Unrestricted

Project No. 190293, South Park Marina, Seattle, Washington

				Location	SB-14	SB-17	SB-18A	SB-19	SB-20A	SB-21	SB-22
				Date	10/01/2007	07/27/2011	07/27/2011	07/28/2011	07/27/2011	07/27/2011	07/27/2011
				Sample	SB-14-7.5		SB18A-9.0-072711	SB19-8.0-072811	SB20A-8.5-072711	SB21-9.0-072711	SB22-10.0-072711
				Depth	8 - 10 ft	10 - 10 ft	9 - 9 ft	8 - 8 ft	8.5 - 8.5 ft	9 - 9 ft	10 - 10 ft
4-Chlorotoluene	106-43-4	ma/ka		Берит	< 0.025 U					< 0.066 U	< 0.076 U
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1	< 0.025 U	_			_	< 0.0057 U	< 0.38 U
Acetone	67-64-1	ma/ka	72000	SL-1	< 0.014 U		-		-	0.11	< 0.38 U
Acrolein	107-02-8	mg/kg	0.000316	SL-6			-		-		
Acrylonitrile	107-13-1	mg/kg	8.26E-06	SL-6							
Benzene	71-43-2	mg/kg	0.000558	SL-6	< 0.0063 U				< 0.02 U	< 0.0011 U	< 0.076 U
Bromobenzene	108-86-1	mg/kg	201	SL-7	< 0.0063 U					< 0.066 U	< 0.076 U
Bromochloromethane	74-97-5	mg/kg			< 0.0063 U	-	-	-	-	< 0.0011 U	< 0.076 U
Bromodichloromethane	75-27-4	mg/kg	0.000892	SL-6	< 0.0063 U		-	-	-	< 0.0011 U	< 0.076 U
Bromoform	75-25-2	mg/kg	0.00495	SL-6	< 0.0063 U		-	-	-	< 0.0011 U	< 0.076 U
Bromomethane	74-83-9	mg/kg	0.0792	SL-6	< 0.0063 U		-	-	-	< 0.0011 U	< 0.076 U
Carbon Disulfide	75-15-0	mg/kg	7390	SL-7	< 0.0063 U		-		-	0.0093	< 0.076 U
Carbon Tetrachloride	56-23-5	mg/kg	0.000154	SL-6	< 0.0063 U		-	-	-	< 0.0011 U	< 0.076 U
Chlorobenzene	108-90-7	mg/kg	0.102	SL-6	< 0.0063 U		-		-	< 0.0011 U	< 0.076 U
Chloroethane	75-00-3	mg/kg			< 0.0063 U					< 0.0057 U	< 0.38 U
Chloroform	67-66-3	mg/kg	0.0524	SL-6	< 0.0063 U					< 0.0011 U	< 0.076 U
Chloromethane	74-87-3	mg/kg			< 0.0063 U					< 0.0057 U	< 0.38 U
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	117	SL-7	< 0.0063 U	-				< 0.0011 U	< 0.076 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.000376	SL-6	< 0.0063 U					< 0.0011 U	< 0.076 U
Dibromochloromethane	124-48-1	mg/kg	0.000701	SL-6	< 0.0063 U					< 0.0011 U	< 0.076 U
Dibromomethane	74-95-3	mg/kg	472	SL-7	< 0.0063 U					< 0.0011 U	< 0.076 U
Dichlorodifluoromethane	75-71-8	mg/kg	11200	SL-7	< 0.0063 U					< 0.0011 U	< 0.076 U
Ethylbenzene	100-41-4	mg/kg	0.0103	SL-6	< 0.0063 U	-	-		< 0.06 U	< 0.0011 U	< 0.076 U
Isopropylbenzene	98-82-8	mg/kg	1730	SL-7	< 0.025 U					< 0.0011 U	< 0.076 U
m,p-Xylenes	179601-23-1	mg/kg			< 0.0063 U		-		< 0.06 U	< 0.0023 U	< 0.15 U
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1			-		-	< 0.0011 U	< 0.076 U
Methylene Chloride	75-09-2	mg/kg	0.0297	SL-6	< 0.001 U					< 0.011 U	< 0.76 U
Methyliodide	74-88-4	mg/kg					-		-	< 0.0057 U	< 0.38 U
n-Butylbenzene	104-51-8	mg/kg	748	SL-7	< 0.025 U		-		-	< 0.066 U	0.17
n-Propylbenzene	103-65-1	mg/kg	1670	SL-7	< 0.025 U		-		-	< 0.066 U	< 0.076 U
o-Xylene	95-47-6	mg/kg			< 0.0063 U		-		< 0.06 U	< 0.0011 U	< 0.076 U
p-Isopropyltoluene	99-87-6	mg/kg			< 0.025 U		-		-	< 0.066 U	< 0.076 U
sec-Butylbenzene	135-98-8	mg/kg	1520	SL-7	< 0.025 U				-	< 0.066 U	0.14
Styrene	100-42-5	mg/kg	300	SL-9	< 0.0063 U				-	< 0.0011 U	< 0.076 U
tert-Butylbenzene	98-06-6	mg/kg	1600	SL-7	< 0.025 U		-		-	< 0.066 U	< 0.076 U
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0016	SL-6	0.002			-	-	0.002	< 0.076 U
Toluene	108-88-3	mg/kg	0.0435	SL-6	0.00089 J	-		-	< 0.06 U	< 0.0057 U	< 0.38 U
Total Xylenes	1330-20-7	mg/kg	0.0551	SL-6					-		-
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.325	SL-6	< 0.0063 U				-	< 0.0011 U	< 0.076 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.000376	SL-6	< 0.0063 U		-		-	< 0.0011 U	< 0.076 U
Trichloroethene (TCE)	79-01-6	mg/kg	0.000266	SL-6	< 0.0063 U		-		-	< 0.0011 U	< 0.076 U
Trichlorofluoromethane	75-69-4	mg/kg	16800	SL-7	< 0.0063 U		-	-	-	< 0.0011 U	< 0.076 U
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1			-	-	-	< 0.0057 U	< 0.38 U
Vinyl Chloride	75-01-4	mg/kg	5.55E-05	SL-6	< 0.0063 U					< 0.0011 U	< 0.076 U
Conventionals						,					
Total Organic Carbon	TOC	%			-	-	-	-	-		-
Total Solids	TS	%			76.6		-		-		

Saturated soil is defined as being greater than 6 feet below ground surface (bgs).

Bold - detected

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Screening Level Codes: SL-1 SL-6 Direct Contact Unrestricted
Protect Surface Water via Ground Water Saturated Zone

SL-7 Protect Sediment via Groundwater Saturated Zone

SL-9 Site-Specific TEE Unrestricted

Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth		SB-23 07/28/2011 SB23-8.0-072811 8 - 8 ft	SB-24 07/28/2011 SB24-7.0-072811 7 - 7 ft	SB-25 07/28/2011 SB25-10.0-072811 10 - 10 ft	SB-26 03/04/2021 SB-26-5.5-6.5 5.5 - 6.5 ft	SB-26 03/04/2021 SB-26-12.5 12.5 ft	SB-26 03/04/2021 SB-26-18-20 18 - 20 ft
4-Chlorotoluene	106-43-4	mg/kg				-	-		< 0.00107 U	< 0.00113 U	
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1		-	-		< 0.00536 U	< 0.00565 U	
Acetone	67-64-1	mg/kg	72000	SL-1					0.0658	0.0684	
Acrolein	107-02-8	mg/kg	0.000316	SL-6					< 0.00536 U	< 0.00565 U	
Acrylonitrile	107-13-1	mg/kg	8.26E-06	SL-6					< 0.00536 U	< 0.00565 U	
Benzene	71-43-2	mg/kg	0.000558	SL-6		_			< 0.00107 U	< 0.00113 U	
Bromobenzene	108-86-1	mg/kg	201	SL-7		-			< 0.00107 U	< 0.00113 U	
Bromochloromethane	74-97-5	mg/kg				-	-		< 0.00107 U	< 0.00113 U	
Bromodichloromethane	75-27-4	mg/kg	0.000892	SL-6		-	-		< 0.00107 U	< 0.00113 U	
Bromoform	75-25-2	mg/kg	0.00495	SL-6					< 0.00107 U	< 0.00113 U	
Bromomethane	74-83-9	mg/kg	0.0792	SL-6			-	-	< 0.00107 U	< 0.00113 U	
Carbon Disulfide	75-15-0	mg/kg	7390	SL-7					< 0.00107 U	0.00095 J	
Carbon Tetrachloride	56-23-5	mg/kg	0.000154	SL-6					< 0.00107 U	< 0.00113 U	
Chlorobenzene	108-90-7	mg/kg	0.102	SL-6					< 0.00107 U	< 0.00113 U	
Chloroethane	75-00-3	mg/kg				-	-		< 0.00214 U	< 0.00226 U	
Chloroform	67-66-3	mg/kg	0.0524	SL-6		-	-		< 0.00107 U	< 0.00113 U	
Chloromethane	74-87-3	ma/ka				-	-		< 0.00107 U	< 0.00113 U	
cis-1.2-Dichloroethene (cDCE)	156-59-2	ma/ka	117	SL-7		-			< 0.00107 U	< 0.00113 UJ	
cis-1,3-Dichloropropene	10061-01-5	ma/ka	0.000376	SL-6		-			< 0.00107 U	< 0.00113 U	
Dibromochloromethane	124-48-1	ma/ka	0.000701	SL-6					< 0.00107 U	< 0.00113 U	
Dibromomethane	74-95-3	ma/ka	472	SL-7					< 0.00107 U	< 0.00113 U	
Dichlorodifluoromethane	75-71-8	mg/kg	11200	SL-7			-		< 0.00107 U	< 0.00113 U	
Ethylbenzene	100-41-4	ma/ka	0.0103	SL-6					< 0.00107 U	< 0.00113 U	
Isopropylbenzene	98-82-8	mg/kg	1730	SL-7			-		< 0.00107 U	< 0.00113 U	
m.p-Xvlenes	179601-23-1	ma/ka	17.00	02,			-		< 0.00214 U	< 0.00226 U	
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1					< 0.00107 U	< 0.00113 U	
Methylene Chloride	75-09-2	ma/ka	0.0297	SL-6					< 0.00536 U	< 0.00565 U	
Methyliodide Methyliodide	74-88-4	ma/ka	0.0201	OL-0					< 0.00107 U	< 0.00113 U	
n-Butylbenzene	104-51-8	ma/ka	748	SL-7					< 0.00107 U	< 0.00113 U	
n-Propylbenzene	103-65-1	mg/kg	1670	SL-7					< 0.00107 U	< 0.00113 U	
o-Xylene	95-47-6	ma/ka	1070	02,					< 0.00107 U	< 0.00113 U	
p-Isopropyltoluene	99-87-6	mg/kg							< 0.00107 U	< 0.00113 U	
sec-Butvlbenzene	135-98-8	mg/kg	1520	SL-7		-			< 0.00107 U	< 0.00113 U	
Styrene	100-42-5	mg/kg	300	SL-7		-			< 0.00107 U	< 0.00113 U	
tert-Butvlbenzene	98-06-6	mg/kg	1600	SL-3		-			< 0.00107 U	< 0.00113 U	
Tetrachloroethene (PCE)	127-18-4	ma/ka	0.0016	SL-7			-		0.00107 0	0.00113 0	
Toluene	108-88-3	ma/ka	0.0435	SL-6					< 0.00107 U	< 0.00192 < 0.00113 U	
Total Xvlenes	1330-20-7	ma/ka	0.0433	SL-6					< 0.00107 U	< 0.00113 U	
trans-1.2-Dichloroethene	156-60-5	mg/kg	0.325	SL-6	-				< 0.00214 U	< 0.00226 U	
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.000376	SL-6	-				< 0.00107 U	< 0.00113 U	
Trichloroethene (TCE)	79-01-6	ma/ka	0.000376	SL-6					< 0.00107 U	< 0.00113 U	
Trichlorofluoromethane	79-01-6	mg/kg mg/ka	16800	SL-6 SL-7					< 0.00107 U < 0.00214 U	< 0.00113 U < 0.00226 U	
Vinvl Acetate	75-69-4 108-05-4	mg/kg ma/ka	80000	SL-7 SL-1			-		< 0.00214 U < 0.00536 U	< 0.00226 U	
Vinyl Acetate Vinyl Chloride	75-01-4	mg/kg ma/ka	5.55E-05	SL-1 SL-6			-		< 0.00536 U < 0.00107 U	< 0.00565 U < 0.00113 U	
	75-01-4	mg/kg	5.55E-U5) SL-0					< 0.00107 U	< 0.00113 U	
Conventionals	T00	0/		1				1	.0.00.11	0.50	
Total Organic Carbon	TOC	%	.						< 0.02 U	0.52	
Total Solids	TS	%				-			82.18	77.36	

Saturated soil is defined as being greater than 6 feet below ground surface (bgs).

Bold - detected

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J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-6 Direct Contact Unrestricted
Protect Surface Water via Ground Water Saturated Zone SL-7 Protect Sediment via Groundwater Saturated Zone SL-9 Site-Specific TEE Unrestricted SL-10 Natural Background

Project No. 190293, South Park Marina, Seattle, Washington

				Location	SB-27	SB-27	SB-28	SB-30	SB-30	SB-30	SB-31
				Date	03/09/2021	03/09/2021	03/01/2021	03/01/2021	03/01/2021	03/01/2021	03/01/2021
				Sample	SB-27-8-9	SB-27-18-20	SB-28-14.5-15.5	SB-30-11.5-12.5	SB-30-12.5-14.5	SB-30-23-25	SB-31-10-11
				Depth	8 - 9 ft	18 - 20 ft	14.5 - 15.5 ft	11.5 - 12.5 ft	12.5 - 14.5 ft	23 - 25 ft	10 - 11 ft
4-Chlorotoluene	106-43-4	ma/ka		D Optin	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1	< 0.00472 U		< 0.00707 U		< 0.00642 UJ	< 0.00747 U	
Acetone	67-64-1	mg/kg	72000	SL-1	0.0833		0.0735 J		0.027 J	0.0819 J	
Acrolein	107-02-8	mg/kg	0.000316	SL-6	< 0.00472 U		< 0.00707 U		< 0.00642 UJ	< 0.00747 U	
Acrylonitrile	107-13-1	mg/kg	8.26E-06	SL-6	< 0.00472 UJ	-	< 0.00707 U		< 0.00642 UJ	< 0.00747 U	-
Benzene	71-43-2	mg/kg	0.000558	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	0.00104 J	-
Bromobenzene	108-86-1	mg/kg	201	SL-7	< 0.00094 U	-	< 0.00141 U		< 0.00128 UJ	< 0.00149 U	1
Bromochloromethane	74-97-5	mg/kg			< 0.00094 U	-	< 0.00141 U		< 0.00128 UJ	< 0.00149 U	ı
Bromodichloromethane	75-27-4	mg/kg	0.000892	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	-
Bromoform	75-25-2	mg/kg	0.00495	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	-
Bromomethane	74-83-9	mg/kg	0.0792	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	-
Carbon Disulfide	75-15-0	mg/kg	7390	SL-7	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	0.00089 J	
Carbon Tetrachloride	56-23-5	mg/kg	0.000154	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
Chlorobenzene	108-90-7	mg/kg	0.102	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
Chloroethane	75-00-3	mg/kg			< 0.00189 U		< 0.00283 U		< 0.00257 UJ	< 0.00299 U	
Chloroform	67-66-3	mg/kg	0.0524	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
Chloromethane	74-87-3	mg/kg			< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	117	SL-7	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	0.00988	
cis-1,3-Dichloropropene	10061-01-5	mg/kg	0.000376	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
Dibromochloromethane	124-48-1	mg/kg	0.000701	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
Dibromomethane	74-95-3	mg/kg	472	SL-7	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
Dichlorodifluoromethane	75-71-8	mg/kg	11200	SL-7	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
Ethylbenzene	100-41-4	mg/kg	0.0103	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
Isopropylbenzene	98-82-8	mg/kg	1730	SL-7	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
m,p-Xylenes	179601-23-1	mg/kg			< 0.00189 U		< 0.00283 U		< 0.00257 UJ	< 0.00299 U	
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg	556	SL-1	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
Methylene Chloride	75-09-2	mg/kg	0.0297	SL-6	< 0.00472 U		< 0.00707 U		0.00659 J	< 0.00747 U	
Methyliodide	74-88-4	mg/kg			< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
n-Butylbenzene	104-51-8	mg/kg	748	SL-7	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
n-Propylbenzene	103-65-1	mg/kg	1670	SL-7	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	-
o-Xylene	95-47-6	mg/kg			< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
p-Isopropyltoluene	99-87-6	mg/kg			< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
sec-Butylbenzene	135-98-8	mg/kg	1520	SL-7	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	0.00044 J	-
Styrene	100-42-5	mg/kg	300	SL-9	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	-
tert-Butylbenzene	98-06-6	mg/kg	1600	SL-7	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	0.00121 J	-
Tetrachloroethene (PCE)	127-18-4	mg/kg	0.0016	SL-6	< 0.00094 U		< 0.00141 U		0.729 J	0.0163	-
Toluene	108-88-3	mg/kg	0.0435	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	0.00038 J	-
Total Xylenes	1330-20-7	mg/kg	0.0551	SL-6	< 0.00189 U		< 0.00283 U		< 0.00257 UJ	< 0.00299 U	
trans-1,2-Dichloroethene	156-60-5	mg/kg	0.325	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.000376	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	< 0.00149 U	-
Trichloroethene (TCE)	79-01-6	mg/kg	0.000266	SL-6	< 0.00094 U		< 0.00141 U		0.00347 J	0.0362	
Trichlorofluoromethane	75-69-4	mg/kg	16800	SL-7	< 0.00189 U		< 0.00283 U		< 0.00257 UJ	< 0.00299 U	
Vinyl Acetate	108-05-4	mg/kg	80000	SL-1	< 0.00472 U		< 0.00707 U		< 0.00642 UJ	< 0.00747 U	-
Vinyl Chloride	75-01-4	mg/kg	5.55E-05	SL-6	< 0.00094 U		< 0.00141 U		< 0.00128 UJ	0.0012 J	
Conventionals											
Total Organic Carbon	TOC	%			0.38		< 0.05 U		0.13	0.12	-
Total Solids	TS	%			74.3		77.71		73.08	72.63	

Saturated soil is defined as being greater than 6 feet below ground surface (bgs).

Bold - detected

Blue Shaded - Detected result exceeded screening level U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: SL-1 SL-6 Direct Contact Unrestricted
Protect Surface Water via Ground Water Saturated Zone SL-7 Protect Sediment via Groundwater Saturated Zone SL-9 Site-Specific TEE Unrestricted

Project No. 190293, South Park Marina, Seattle, Washington

				Location Date Sample Depth	SB-31 03/01/2021 SB-31-13-14.5 13 - 14.5 ft	SB-31 03/01/2021 SB-31-19-20 19 - 20 ft	SB-32 03/08/2021 SB-32-7-8 7 - 8 ft	SB-33 03/03/2021 SB-33-5.5-6.5 5.5 - 6.5 ft	SB-34 03/01/2021 SB-34-5.5-6.5 5.5 - 6.5 ft
4-Chlorotoluene	106-43-4	ma/ka			< 7.93 U	< 0.0014 U	-		< 0.00122 U
4-Methyl-2-pentanone	108-10-1	mg/kg	6400	SL-1	< 39.7 U	< 0.00699 U	-		< 0.00612 U
Acetone	67-64-1	mg/kg	72000	SL-1	< 39.7 U	0.0769 J	-		0.0589
Acrolein	107-02-8	ma/ka	0.000316	SL-6	< 39.7 U	< 0.00699 U	-		< 0.00612 U
Acrylonitrile	107-13-1	ma/ka	8.26E-06	SL-6	< 39.7 U	< 0.00699 U	-		< 0.00612 U
Benzene	71-43-2	ma/ka	0.000558	SL-6	< 7.93 U	< 0.0014 U			0.00048 J
Bromobenzene	108-86-1	mg/kg	201	SL-7	< 7.93 U	< 0.0014 U	-		< 0.00122 U
Bromochloromethane	74-97-5	ma/ka			< 7.93 U	< 0.0014 U	-		< 0.00122 U
Bromodichloromethane	75-27-4	mg/kg	0.000892	SL-6	< 7.93 U	< 0.0014 U	-		< 0.00122 U
Bromoform	75-25-2	ma/ka	0.00495	SL-6	< 7.93 U	< 0.0014 U	-		< 0.00122 U
Bromomethane	74-83-9	ma/ka	0.0792	SL-6	< 7.93 U	< 0.0014 U	-		< 0.00122 U
Carbon Disulfide	75-15-0	ma/ka	7390	SL-7	< 7.93 U	0.00915	-		< 0.00122 U
Carbon Tetrachloride	56-23-5	ma/ka	0.000154	SL-6	< 7.93 U	< 0.0014 U			< 0.00122 U
Chlorobenzene	108-90-7	mg/kg	0.102	SL-6	< 7.93 U	< 0.0014 U			< 0.00122 U
Chloroethane	75-00-3	ma/ka			< 7.93 U	< 0.0028 U	-		< 0.00245 U
Chloroform	67-66-3	ma/ka	0.0524	SL-6	< 7.93 U	< 0.0014 U	-		< 0.00122 U
Chloromethane	74-87-3	ma/ka			< 7.93 U	< 0.0014 U	-		< 0.00122 U
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	117	SL-7	< 7.93 U	0.689			< 0.00122 UJ
cis-1.3-Dichloropropene	10061-01-5	ma/ka	0.000376	SL-6	< 7.93 U	< 0.0014 U	-		< 0.00122 U
Dibromochloromethane	124-48-1	ma/ka	0.000701	SL-6	< 7.93 U	< 0.0014 U			< 0.00122 U
Dibromomethane	74-95-3	mg/kg	472	SL-7	< 7.93 U	< 0.0014 U			< 0.00122 U
Dichlorodifluoromethane	75-71-8	ma/ka	11200	SL-7	< 7.93 U	< 0.0014 U			< 0.00122 U
Ethylbenzene	100-41-4	mg/kg	0.0103	SL-6	< 7.93 U	< 0.0014 U			< 0.00122 U
Isopropylbenzene	98-82-8	mg/kg	1730	SL-7	0.0025	< 0.0014 U			< 0.00122 U
m.p-Xvlenes	179601-23-1	ma/ka			< 15.9 U	< 0.0028 U	-		< 0.00245 U
Methyl tert-butyl ether (MTBE)	1634-04-4	ma/ka	556	SL-1	< 7.93 U	< 0.0014 U			< 0.00122 U
Methylene Chloride	75-09-2	mg/kg	0.0297	SL-6	10.7 J	< 0.00699 U			< 0.00612 U
Methyliodide	74-88-4	mg/kg			< 7.93 U	< 0.0014 U			< 0.00122 U
n-Butvlbenzene	104-51-8	mg/kg	748	SL-7	79.6	< 0.0014 U			< 0.00122 U
n-Propylbenzene	103-65-1	ma/ka	1670	SL-7	72.5	0.00049 J	-		< 0.00122 U
o-Xvlene	95-47-6	ma/ka			< 7.93 U	< 0.0014 U			< 0.00122 U
p-Isopropyltoluene	99-87-6	mg/kg			12.4	< 0.0014 U			< 0.00122 U
sec-Butvlbenzene	135-98-8	ma/ka	1520	SL-7	13.6	< 0.0014 U	-		< 0.00122 U
Styrene	100-42-5	ma/ka	300	SL-9	< 7.93 U	< 0.0014 U	-		< 0.00122 U
tert-Butvlbenzene	98-06-6	ma/ka	1600	SL-7	< 7.93 U	< 0.0014 U			< 0.00122 U
Tetrachloroethene (PCE)	127-18-4	ma/ka	0.0016	SL-6	18.7	7.07			0.0006 J
Toluene	108-88-3	ma/ka	0.0435	SL-6	< 7.93 U	< 0.0014 U	-		< 0.00122 U
Total Xvlenes	1330-20-7	mg/kg	0.0551	SL-6	< 15.9 U	< 0.0028 U			< 0.00245 U
trans-1,2-Dichloroethene	156-60-5	ma/ka	0.325	SL-6	< 7.93 U	0.00234			< 0.00122 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	0.000376	SL-6	< 7.93 U	< 0.0014 U	-		< 0.00122 U
Trichloroethene (TCE)	79-01-6	mg/kg	0.000266	SL-6	< 7.93 U	0.672			< 0.00122 U
Trichlorofluoromethane	75-69-4	ma/ka	16800	SL-7	< 7.93 U	< 0.0028 U			< 0.00245 U
Vinyl Acetate	108-05-4	ma/ka	80000	SL-1	< 39.7 U	< 0.00699 U			< 0.00612 U
Vinyl Chloride	75-01-4	mg/kg	5.55E-05	SL-6	< 7.93 U	< 0.0014 U	-		< 0.00122 U
Conventionals									
Total Organic Carbon	TOC	%			0.48	< 0.06 U			< 0.03 U
Total Solids	TS	%	Ì		72.21	78.01			78.43

Saturated soil is defined as being greater than 6 feet below ground surface (bgs).

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

ND = 0 - calculated using 0 for non-detected components

Screening Level Codes:

SL-1	Direct Contact Unrestricted
SL-6	Protect Surface Water via Ground Water Saturated Zone
SL-7	Protect Sediment via Groundwater Saturated Zone
SL-9	Site-Specific TEE Unrestricted
SI -10	Natural Background

Series						Location Date Sample	MW-04 03/31/2021	MW-04 05/27/2021	MW-05 03/31/2021	MW-05 05/27/2021	MW-06 03/29/2021	MW-07 03/29/2021
March Cold President P					SDW DI GW SIS	Sample	MW-04-210331	MW-04-210527	MW-05-210331	MW-05-210527	MW-06-210329	MW-07-210329
Part	Analyte	CAS PN	Eraction	Unit	_2022.02_action_le							
Appendix		CAS_RIV	FIACION	Ullit	vei	Source						
Property Property		7440-38-2	D	ua/L	8	GW-5	0.567		0.798		0.288	
Cadmins		7440-38-2	Т			GW-5				-		-
Egistion	Barium			ug/L				-				
Decomposition												
Concent												
Control Cont												-
Depart 746956 T												
Fig.												-
March 1/49/92 T												
Managery												
Decard	Mercury		D					-				
Dipose			T									
Seteman 7782-89-2			D					-				-
Store			•								0.463 J	
Store												
Test												
Page												-
Buy Times										-		
Distriction 1448-55-0		/ 440-00-0	I	uq/L	01	GVV-Z	<u> </u>	-	1030 D		6.01	
Monobachdrin 78783-54-9 T		14488-53-0	Т	ug/l			< 0.289 []	I	< 0.289 []	I	< 0.289 []	< 0.289 []
Tetrabulytin		78763-54-9										
Tribuly file 1994 1995			Ť									
Ancelor 1016 1874-11-2		36643-28-4	T		4.27E-06	GW-3	< 0.193 U		< 0.193 U		< 0.193 U	< 0.193 U
Apocler 1221												
Apode 1322												< 0.011 U
Accord 1242			•									< 0.011 U
Apodio 1284 1972-29-6												< 0.011 U
Anodor 1256 11097-59-1 T												< 0.011 U
Arcoler 1260			•									
Ancelor 1862 \$17324-23-5 T												
Anoder 1288			Ť									
Total PCB Arodins (ND-11/2 RL)			Ť									< 0.011 U
Teb Teb			Ť		7E-06	GW-2		-				
Total PCB ECR (ND = 0)	Total PCBs (Sum of Aroclors)		T									
Total PCB TEQ (ND = 1)	Polychlorinated Biphenyl Congeners											
Total PCB TEQ /ND = 1/2 RDL PCB TEQ -1/2U T							-					-
Polycyclic Aromatic Hydrocarbons 90-12-0 T ug/L 804 GW-3 0.024 2.63 D 0.002 J 0.002 J												
I-Methylnaphthalene		PCB-TEQ-1/2U	Т	ug/L	4.43E-09	GW-2	-	0.00000286	-	0.00000516		
2-Methylnaphthalene		00.12.0	т	ug/l	804	C/W 3	0.024		2 62 D	İ	0.002.1	0.002.1
Acenaphthyene 208-96-8 T ug/L 5.34 GW-3 0.054 0.436 < 0.01 U < 0.01 L			•									
Acenaphthylene 208-96-8 T ug/L						GW-3						
Anthracene			Ť			0						< 0.01 U
Benzo(gh,h)perviene 191-24-2 T			T		2.15	GW-3	0.01		0.182		< 0.01 U	< 0.01 U
Fluorene 88-73-7 T ug/L 3.67 G/W-3 0.041 0.562 < 0.01 U < 0.01 L			Т						0.002 J			< 0.01 U
Naphthalene										-		
Phenathrene 85-01-8												
Pyrene 129-00-0 T ug/L 2.01 GW-3 0.021 0.051 < 0.01 U < 0.01 L		91-20-3			1.4	GW-2		-		-		
Benz(a)anthracene 56-55-3 T ug/L 0.00016 GW-2 < 0.01 U 0.007 J < 0.01 U < 0.01 L					2.04	C/V/ 3						
Benzo(a)pyrene 50.32.8 T Ug/L 1.6E-05 GW-2 < 0.01 U 0.003 J < 0.01 U < 0.01 U								-		-		
Benzo(b)fluoranthene 205-99-2 T ug/L 0.00016 GW-2 < 0.01 U 0.003 J < 0.01 U < 0.01 U												< 0.01 U
Benzo(jkfluoranthene 205-82-3 T ug/L			Ť									< 0.01 U
Benzo(I,k)fluoranthene Benz-jk-fluor T ug/L			Ţ									< 0.01 U
Benzo(k/fluoranthene 207-08-9 T Ug/L 0.0016 GW-2 < 0.01 U < 0.01 U < 0.01 U < 0.01 L		Benz-jk-fluor					-		-			_
Dibenzo(a,h)anthracene 53-70-3 T ug/L 1.6E-05 GW-2 < 0.01 U < 0.01 U < 0.01 U < 0.01 L Indeno(1,2,3-cd)pyrene 193-39-5 T ug/L 0.00016 GW-2 < 0.01 U 0.001 J < 0.01 U < 0.01 L Total Benzofluoranthenes TOTBFA T ug/L Ug/L C 0.01 U 0.006 J < 0.01 U < 0.01 L Total HPAHs T ug/L 0.0460 0.138 < 0.01 U 0.0040 C Total HPAHs T Ug/L 0.0460 0.138 < 0.01 U 0.0040 C Total HPAHs T Ug/L 0.0460 0.0460 0.0460 C Total HPAHs T Ug/L 0.0460 0.0460 0.0460 C Total HPAHs T Ug/L 0.0460 0.0460 0.0460 C Total HPAHs T Ug/L 0.0460 0.0460 0.0460 C Total HPAHs T Ug/L 0.0460 0.0460 0.0460 0.0460 C Total HPAHs T Ug/L 0.0460 0.04								-		-		< 0.01 U
Indeno(1,2,3-cd)pyrene								_				0.002 J
Total Benzofluoranthenes TOTBFA T ug/L < 0.01 U 0.006 J < 0.01 U < 0.01 U Total HPAHs T-HPAH T ug/L 0.0460 0.138 < 0.01												< 0.01 U
Total HPAHs T-HPAH T ug/L 0.0460 0.138 < 0.01 0.00400			Ţ		0.00016	GW-2						
			T T		 			-		-		
			T									
1.00 1.00 1.00 0.0120			•		 							
		T-CPAH-011	T		0.00969	GW-2						0.0160
10dal CPAHS TEQ (ND = 1/2 RDL) T-CPAH-1/2U T ug/L 0.00969 GW-2 0.00752 0.00521 < 0.00755 0.00752			Ť					-				

					Location Date Sample	MW-08 03/29/2021	MW-08 05/27/2021	MW-09 03/29/2021	MW-10 03/30/2021	MW-11 03/30/2021	MW-12 03/30/2021
	1	Т		SPM RI GW SLS	Gample	MW-08-210329	MW-08-210527	MW-09-210329	MW-10-210330	MW-11-210330	MW-12-210330
Analyte	CAS RN	Fraction	Unit	_2022.02_action_le	Screening Level Source						
Metals	CA3_KN	FIACION	Offic	vei	Source						
Arsenic	7440-38-2	D	ug/L	8	GW-5	0.592	-			0.552	0.749
Arsenic	7440-38-2	Т	ug/L	8	GW-5	0.666	-		-	0.734	0.765
Barium	7440-39-3	T	ug/L	200	GW-2	-					_
Cadmium	7440-43-9	D	ug/L	1.19	GW-3	< 0.1 U	-			< 0.1 U	0.114
Cadmium	7440-43-9	T	ug/L	1.19	GW-3	< 0.1 U	-	-		0.036 J	0.104
Chromium	7440-47-3	D	ug/L	27.4	GW-2	0.443 J	-	-		0.596	< 0.5 U
Chromium	7440-47-3 7440-50-8	T D	ug/L	27.4 3.1	GW-2 GW-2	0.816	-	-		1.03	0.342 J
Copper Copper	7440-50-8	T T	ug/L ug/L	3.1	GW-2 GW-2	2 2.17		_	-	1.77 3.34	10.1 10.4
Lead	7439-92-1	D	ug/L ug/L	5.6	GW-2	0.073 J				0.115	0.065 J
Lead	7439-92-1	T	ug/L	5.6	GW-2	0.924				0.505	0.163
Mercury	7439-97-6	D	ug/L	0.025	GW-2	< 0.02 U	_	-		< 0.02 U	< 0.02 U
Mercury	7439-97-6	T	ug/L	0.025	GW-2	< 0.02 U	-	-		< 0.02 U	< 0.02 U
Nickel	7440-02-0	D	ug/L	8.2	GW-2	0.272 J	-	_	_	0.534	7.07
Nickel	7440-02-0	Т	ug/L	8.2	GW-2	0.366 J	-	-	-	0.873	7.11
Selenium	7782-49-2	T	ug/L	71	GW-2	-	-	-	-	-	-
Silver	7440-22-4	D	ug/L	1.9	GW-2	-			-		-
Silver	7440-22-4	T	ug/L	1.9	GW-2		-	-			
Zinc	7440-66-6	D	ug/L	81	GW-2	< 5 U	-			< 5 U	5.88
Zinc Rutul Tin lone	7440-66-6	Т	ug/L	81	GW-2	< 6 U				< 6 U	5.66 J
Butyl Tin Ions	14488-53-0	Т	ua/l	1		< 0.289 U	I	I		< 0.289 U	-
Dibutyltin Ion Monobutyltin	78763-54-9	Ť	ug/L ug/L			< 0.204 U				< 0.204 U	
Tetrabutyltin	1461-25-2	÷ ÷	ug/L			< 0.3 U				< 0.3 U	
Tributyltin Ion	36643-28-4	Ť	ug/L	4.27E-06	GW-3	< 0.193 U				< 0.193 U	_
Polychlorinated Biphenyl Aroclors			-9-					ı	ı		
Aroclor 1016	12674-11-2	T	ug/L			< 0.01 U	-	-	-	< 0.01 U	< 0.01 U
Aroclor 1221	11104-28-2	T	ug/L			< 0.01 U	-	-		< 0.01 U	< 0.01 U
Aroclor 1232	11141-16-5	T	ug/L			< 0.01 U	-	-		< 0.01 U	< 0.01 U
Aroclor 1242	53469-21-9	T	ug/L			< 0.01 U	-			< 0.01 U	< 0.01 U
Aroclor 1248	12672-29-6	T	ug/L			< 0.01 U	-			< 0.01 U	< 0.01 U
Aroclor 1254	11097-69-1	T T	ug/L			0.003 J		-		0.006 J	< 0.01 U
Aroclor 1260 Aroclor 1262	11096-82-5 37324-23-5	T	ug/L			< 0.01 U < 0.01 U	-	-		< 0.01 U < 0.01 U	< 0.01 U < 0.01 U
Aroclor 1262 Aroclor 1268	11100-14-4	T	ug/L ug/L			< 0.01 U	-	-		< 0.01 U	< 0.01 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	Ť	ug/L	7E-06	GW-2	0.0430	_			0.0460	< 0.010
Total PCBs (Sum of Aroclors)	T-PCBs	Ť	ug/L	7E-06	GW-2	0.00300				0.00600	< 0
Polychlorinated Biphenyl Congeners			-9-			0.0000				0.0000	•
Total PCB Congeners	T-PCBCong	T	ug/L	7E-06	GW-2	_	0.0029 B	-	_	_	_
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	T	ug/L	4.43E-09	GW-2		0.00000000411	-			-
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	T	ug/L	4.43E-09	GW-2	-	0.00000333				-
Polycyclic Aromatic Hydrocarbons											
1-Methylnaphthalene	90-12-0	Ţ	ug/L	804	GW-3	< 0.013 U	-	-		0.002 J	0.002 J
2-Methylnaphthalene	91-57-6	T T	ug/L	14	GW-3	0.003 J	-	_		0.003 J	0.003 J
Acenaphthene Acenaphthylene	83-32-9 208-96-8	T	ug/L ug/L	5.34	GW-3	< 0.013 U < 0.013 U	-			< 0.01 U < 0.01 U	< 0.01 U < 0.01 U
Anthracene	120-12-7	Ť	ug/L ug/L	2.15	GW-3	< 0.013 U		-		< 0.01 U	< 0.01 U
Benzo(g,h,i)perylene	191-24-2	Ť	ug/L	2.10	011 0	< 0.013 U				< 0.01 U	< 0.01 U
Fluoranthene	206-44-0	Ť	ug/L	1.82	GW-3	< 0.013 U	_			0.003 J	< 0.01 U
Fluorene	86-73-7	T	ug/L	3.67	GW-3	< 0.013 U	<u>-</u>	-		< 0.01 U	< 0.01 U
Naphthalene	91-20-3	Т	ug/L	1.4	GW-2	< 0.013 J	_	< 0.5 U	< 0.5 U	< 0.01 J	< 0.01 J
Phenanthrene	85-01-8	Т	ug/L			0.002 J	-	-	-	0.003 J	< 0.01 U
Pyrene	129-00-0	T	ug/L	2.01	GW-3	< 0.013 U	-			< 0.01 J	< 0.01 J
Benz(a)anthracene	56-55-3	Ţ	ug/L	0.00016	GW-2	< 0.013 U	-	-		< 0.01 U	< 0.01 U
Benzo(a)pyrene	50-32-8	Ţ	ug/L	1.6E-05	GW-2	< 0.013 U	-	-		< 0.01 U	< 0.01 U
Benzo(b)fluoranthene	205-99-2	T T	ug/L	0.00016	GW-2	< 0.013 U			-	< 0.01 U	< 0.01 U
Benzo(j)fluoranthene Benzo(j,k)fluoranthene	205-82-3 Benz-jk-fluor	T	ug/L ug/L	1		< 0.013 U				< 0.01 U	< 0.01 U
Benzo(I, k)fluoranthene Benzo(k)fluoranthene	207-08-9	<u> </u>	ug/L ug/L	0.0016	GW-2	< 0.013 U	-	-		< 0.01 U	< 0.01 U
Chrysene	218-01-9	Ť	ug/L	0.016	GW-2	< 0.013 U	-			0.002 J	< 0.01 U
Dibenzo(a,h)anthracene	53-70-3	÷	ug/L	1.6E-05	GW-2	< 0.013 U	-	-		< 0.01 U	< 0.01 U
Indeno(1,2,3-cd)pyrene	193-39-5	Ť	ug/L	0.00016	GW-2	< 0.013 U	-	-		< 0.01 U	< 0.01 U
Total Benzofluoranthenes	TOTBFA	T	ug/L			< 0.013 U		-		< 0.01 U	< 0.01 U
Total HPAHs	T-HPAH	Ť	ug/L			< 0.013				0.00500	0.00200
Total LPAHs	T-LPAH	Т	ug/L			0.00200	-	_		0.00300	< 0.01
Total PAHs (ND=0)	T-PAH	Т	ug/L			0.00200	-	-	-	0.00800	0.00200
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	T	ug/L	0.00969	GW-2	< 0	-			0.0000200	< 0
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	<u> </u>	ug/L	0.00969	GW-2	< 0.009815				0.00752	< 0.00755

					Location Date Sample	MW-13 03/31/2021	MW-13 05/27/2021	MW-14 03/31/2021	MW-15 03/30/2021	MW-15 05/27/2021	MW-01 10/09/2007
				SPM RI GW SLS	Campic	MW-13-210331	MW-13-210527	MW-14-210331	MW-15-210330	MW-15-210527	MW-1-100907
Analyte	CAS RN	Fraction	Unit	_2022.02_action_le	Screening Level Source						
Metals	CAS_RN	FIACION	Offic	vei	Source		l l				
Arsenic	7440-38-2	D	ug/L	8	GW-5	1.72	- 1	0.254	0.698	-	4.46
Arsenic	7440-38-2	T	ug/L	8	GW-5	1.51	-	< 0.2	0.832		4.68
Barium	7440-39-3	T	ug/L	200	GW-2	-		-	-		-
Cadmium	7440-43-9	D	ug/L	1.19	GW-3	0.053 J		< 0.1 U	0.076 J		0.026
Cadmium	7440-43-9	T	ug/L	1.19	GW-3	< 0.1 J		< 0.1 U	0.083 J		0.022
Chromium	7440-47-3	D	ug/L	27.4	GW-2	0.385 J		< 0.5 U	0.289 J		1.61
Chromium	7440-47-3	T	ug/L	27.4	GW-2	< 0.5 J	-	< 0.5 J	0.769	-	2.03
Copper	7440-50-8	<u>D</u>	ug/L	3.1	GW-2	4.43		3.28	6.42		2.77
Copper	7440-50-8	<u>T</u>	ug/L	3.1	GW-2	< 0.5		< 0.5	9.53		2.83
Lead	7439-92-1	D T	ug/L	5.6	GW-2	0.061 J		0.052 J	1.99		0.057
Lead	7439-92-1 7439-97-6	I D	ug/L	5.6 0.025	GW-2 GW-2	< 0.1 < 0.02 U		< 0.1 < 0.02 U	4.67 < 0.02 ∪		0.07 < 0.2 U
Mercury	7439-97-6	T T	ug/L		GW-2 GW-2	< 0.02 U	-	< 0.02 U	< 0.02 U		< 0.2 U
Mercury Nickel	7440-02-0	D D	ug/L ug/L	0.025 8.2	GW-2	6.23		1.34	2.23		< 0.2 U
Nickel	7440-02-0	T T	ug/L ug/L	8.2	GW-2 GW-2	5.86		< 0.5	2.48		_
Selenium	7782-49-2	Ť	ug/L	71	GW-2				2.40		
Silver	7440-22-4	D	ug/L	1.9	GW-2	-			_		< 0.02 U
Silver	7440-22-4	Ť	ug/L	1.9	GW-2	_	-	-	_		< 0.02 U
Zinc	7440-66-6	D	ug/L	81	GW-2	8.69		5.1	10.9		2.1
Zinc	7440-66-6	T	ug/L	81	GW-2	< 6		< 6 J	13.8		4.7
Butyl Tin Ions											
Dibutyltin Ion	14488-53-0	T	ug/L			-	-	< 0.289 U	< 0.289 U		-
Monobutyltin	78763-54-9	T	ug/L			-		< 0.204 U	< 0.204 U		-
Tetrabutyltin	1461-25-2	T	ug/L			-		< 0.3 U	< 0.3 U		-
Tributyltin Ion	36643-28-4	T	ug/L	4.27E-06	GW-3	-		< 0.193 U	< 0.193 U		-
Polychlorinated Biphenyl Aroclors				•			1			1	
Aroclor 1016	12674-11-2	T	ug/L			< 0.01 U		< 0.012 U	< 0.01 U		< 0.21 U
Aroclor 1221	11104-28-2	<u>T</u>	ug/L			< 0.01 U		< 0.012 U	< 0.01 U		-
Aroclor 1232	11141-16-5	<u>T</u>	ug/L			< 0.01 U		< 0.012 U	< 0.01 U		-
Aroclor 1242 Aroclor 1248	53469-21-9 12672-29-6	<u>T</u>	ug/L			< 0.01 U < 0.01 U		< 0.012 U < 0.012 U	< 0.01 U < 0.01 U		 < 0.21 U
Aroclor 1248 Aroclor 1254	11097-69-1	I	ug/L			< 0.01 U < 0.01 U	-	< 0.012 U < 0.012 U	< 0.01 U 0.003 J	-	< 0.21 U
Aroclor 1254 Aroclor 1260	11097-69-1	- I	ug/L ug/L			< 0.01 U	-	< 0.012 U	0.003 J 0.004 J		< 0.21 U
Aroclor 1262	37324-23-5	+	ug/L			< 0.01 U		< 0.012 U	< 0.01 U		
Aroclor 1268	11100-14-4	- i	ug/L			< 0.01 U	_	< 0.012 U	< 0.01 U		
				75.00	GW-2	< 0.045		< 0.054	0.0420		< 0.21
		Т	ua/l								
Total PCB Aroclors (ND=1/2 RL) Total PCBs (Sum of Aroclors)	T-PCBs1/2U	T T	ug/L ug/L	7E-06 7E-06		< 0		< 0			< 0.21 UJ
Total PCBs (Sum of Aroclors)			ug/L ug/L	7E-06 7E-06	GW-2				0.00700		< 0.21 UJ
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners	T-PCBs1/2U						0.0000547 B				< 0.21 UJ
Total PCBs (Sum of Aroclors)	T-PCBs1/2U T-PCBs T-PCBCong PCB-TEQ-0U		ug/L	7E-06 7E-06 4.43E-09	GW-2 GW-2 GW-2		< 0				< 0.21 UJ
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL)	T-PCBs1/2U T-PCBs	Ť T	ug/L ug/L	7E-06	GW-2	< 0		< 0	0.00700	0.00125 B	
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U	T T T T	ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09	GW-2 GW-2 GW-2 GW-2	< 0 	< 0 < 0.000000324715	< 0 	0.00700 	0.00125 B 0.0000000303 0.000000339	
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0	T T T T	ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804	GW-2 GW-2 GW-2 GW-2	< 0 0.011	< 0 < 0.000000324715	< 0 < 0.01 J	0.00700 0.003 J	0.00125 B 0.000000303 0.000000339	
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene	T-PCBs1/2U T-PCBs T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6	T T T T	ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3	< 0 0.011 < 0.01	< 0 < 0.000000324715	< 0 < 0.01 J < 0.01 J	0.00700 0.003 J 0.005 J		 < 0.21 U
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804	GW-2 GW-2 GW-2 GW-2	< 0	< 0 < 0.00000324715	< 0	0.00700 0.003 J 0.005 J < 0.01 U	0.00125 B 0.000000303 0.000000339	 < 0.21 U < 0.21 U
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthe	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 206-96-8	T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3	< 0 0.011 < 0.01 0.003 J < 0.01 U	< 0 < 0.00000324715	< 0.01 J < 0.01 J < 0.01 U < 0.01 U	0.00700 		 <0.21 U <0.21 U <0.21 U
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthene Acenaphthylene Acenaphthylene Anthracene	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3	< 0 0.011 < 0.01 0.003 J < 0.01 U < 0.01 U	< 0.00000324715	< 0.01 J < 0.01 J < 0.01 U < 0.01 U < 0.01 U	0.00700		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Anthracene Benzo(g,h,l)perylene	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34 2.15	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3	<0	< 0 < 0.00000324715	< 0	0.00700 0.003 J 0.005 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthene Acenaphthene Anthracene Benzo(a,h,i)perylene Fluoranthene	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34 2.15	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3	<0	< 0.00000324715	< 0.01 J < 0.01 J < 0.01 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U	0.00700 0.003 J 0.005 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U 0.002 J		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Benzo(g h, i)perylene Fluoranthene Fluoranthene	T-PCBs1/2U T-PCBs T-PCBs T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3	<0	< 0.00000324715	< 0	0.00700 0.003 J 0.005 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U 0.002 J < 0.01 U		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Anthracene Benzo(a h.i)perylene Fluoranthene Fluorene Naphthalene	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34 2.15	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3	<0	< 0.00000324715	< 0	0.00700		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Anthracene Benzo(g,h,l)perylene Fluoranthene Fluorene Naphthalene Naphthalene Phenanthrene	T-PCBs1/2U T-PCBs T-PCBs T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3	<0	< 0.00000324715	< 0	0.00700 0.003 J 0.005 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U 0.002 J < 0.01 U		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthere Acenaphthere Benzo(q,h,i)perylene Fluoranthene Fluoranthene Fluoranthene Naphthalene Naphthalene Naphthalene Phenanthrene Phenanthrene Phyrene	T-PCBs1/2U T-PCBs T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67 1.4	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3	<0	< 0.000000324715	< 0.01 J < 0.01 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U	0.00700 0.003 J 0.005 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U 0.002 J < 0.01 U < 0.01 J 0.003 J		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthe	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67 1.4 2.01	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3	<0	< 0.000000324715	< 0	0.00700 0.003 J 0.005 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U 0.002 J < 0.01 U < 0.01 J 0.003 J		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(q,h,i)perylene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 4.43E-09 14 5.34 2.15 1.82 3.67 1.4 2.01 0.00016	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3	<0	< 0 < 0.00000324715	< 0.01 J < 0.01 J < 0.01 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U	0.00700 0.003 J 0.005 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 J < 0.01 J < 0.01 J < 0.01 J		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(a,h,i)perylene Fluoranthene Fluorene Naphthalene Pyrene Benzo(a)anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	T-PCBs1/2U T-PCBs T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67 1.4 2.01 0.00016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3	<0	< 0 < 0.00000324715	< 0.01 J < 0.01 J < 0.01 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U	0.00700 0.003 J 0.005 J < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(a,h.i)pervlene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)liluoranthene Benzo(jilluoranthene Benzo(jilluoranthene	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67 1,4 2.01 0.00016 1.8E-05 0.00016	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3	<0	< 0 < 0.00000324715	< 0	0.00700		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(a,h,i)perylene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz- k-fluor 207-08-9	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 14 5.34 2.15 1.82 3.67 1.4 2.01 0.00016 0.0016	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3	<0	< 0.000000324715	< 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U	0.00700		
Total PCBs (Sum of Arcolors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1) Total PCB TEQ (ND = 1) Total PCB TEQ (ND = 1) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(a,h.i)perylene Fluoranthene Fluoranthene Naphthalene Naphthalene Phenanthrene Phenanthrene Phenacy (a) pyrene Benzo(a) pyrene Benzo(a) pyrene Benzo(b) fluoranthene	T-PCBs1/2U T-PCBs T-PCBs T-PCBCong PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz- k-fluor 207-08-9 218-01-9	T T T T T T T T T T T T T T T T T T T	ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67 1.4 2.01 0.00016 1.6E-05 0.00016 0.0016 0.0016	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	<.0	< 0 < 0.00000324715	< 0	0.00700		
Total PCBs (Sum of Arcolors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthene Fluoranthene Fluoranthene Fluoranthene Pluoranthene Phenanthrene Phenanthrene Phenanthrene Benzo(a)apyrene Benzo(a)apyrene Benzo(a)fluoranthene Benzo(i)fluoranthene Benzo(i)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	T-PCBs1/2U T-PCBs T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67 1.4 2.01 0.00016 1.6E-05 0.0016 0.016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3	<0	< 0 < 0.000000324715	<00	0.00700		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthene Anthracene Benzo(a,h.liperylene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j,k)fluoranthene Benzo(k)fluoranthene Benzo(k)tluoranthene	T-PCBs1/2U T-PCBs T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz_ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5	T T T T T T T T T T T T T T T T T T T	ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67 1.4 2.01 0.00016 1.6E-05 0.00016 0.0016 0.0016	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	<0	< 0 < 0.00000324715	<0	0.00700		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Anthracene Benzo(a, h.i)pervlene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Benzo(a) pyrene Benzo(a) pyrene Benzo(a) pyrene Benzo(a) liftuoranthene Benzo(b) fluoranthene Benzo(b) fluoranthene Benzo(k) fluoranthene Benzo(k) fluoranthene Benzo(k) fluoranthene Benzo(k) fluoranthene Benzo(k) fluoranthene Benzo(k) fluoranthene Benzo(k) fluoranthene Benzo(k) fluoranthene Benzo(k) fluoranthene Benzo(k) fluoranthene Dibenzo(a, h) anthracene Indeno(1, 2, 3-cd) pyrene	T-PCBs1/2U T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 88-73-7 91-20-3 85-01-8 129-90-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA	T T T T T T T T T T T T T T T T T T T	ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67 1.4 2.01 0.00016 1.6E-05 0.0016 0.016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3	<.0	< 0 < 0.000000324715	<0	0.00700		
Total PCBs (Sum of Arcotors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene 3-Methylnaphthalene 4-Acenaphthylene Anthracene Benzo(a,h.)pervlene Fluoranthene Fluoranthene Phenanthrene Pyrene Benzo(a)apyrene Benzo(a)byrene Benzo(a)byrene Benzo(b)fluoranthene Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes	T-PCBs1/2U T-PCBs T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67 1.4 2.01 0.00016 1.6E-05 0.0016 0.016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3		< 0 < 0.000000324715	<00	0.00700		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthere Acenaphthylene Anthracene Benzo(a,h.i)perylene Fluoranthene Fluoranthene Fluoranthene Phenanthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)fluoranthene Benzo(jlfluoranthene Benzo(jlfluoranthene Benzo(a)fluoranthene Benzo(a)fluoranthene Benzo(a)hanthracene Benzo(a,h)anthracene Indeno(1,2,3-od)pyrene Total Benzofluoranthenes Total HPAHs	T-PCBs1/2U T-PCBs T-PCBs T-PCBCong PCB-TEQ-0U PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz- k-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH	T T T T T T T T T T T T T T T T T T T	ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67 1.4 2.01 0.00016 1.6E-05 0.0016 0.016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3		< 0 < 0.000000324715	< 0	0.00700		
Total PCBs (Sum of Arcotors) Polychlorinated Biphenyl Congeners Total PCB Congeners Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1) Total PCB TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene 3-Methylnaphthalene 4-Acenaphthylene Anthracene Benzo(a,h.)pervlene Fluoranthene Fluoranthene Phenanthrene Pyrene Benzo(a)apyrene Benzo(a)byrene Benzo(a)byrene Benzo(b)fluoranthene Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes	T-PCBs1/2U T-PCBs T-PCBs T-PCBConq PCB-TEQ-0U PCB-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA T-HPAH	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	7E-06 7E-06 4.43E-09 4.43E-09 4.43E-09 804 14 5.34 2.15 1.82 3.67 1.4 2.01 0.00016 1.6E-05 0.0016 0.016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3		< 0 < 0.000000324715	<00	0.00700		

Massis		MW-03 03/12/2008	MW-03 10/08/2007	MW-02 03/12/2008	MW-02 10/09/2007	MW-01 03/12/2008	Location Date					
Marie Mari	1208 SB21-WATER-0727	MW-3-031208	MW-3-100807	MW-2-031208	MW-2-100907	MW-1-031208	Sample	SDW DI GW SIS			T	
Section								_2022.02_action_le	Unit	Fraction	CAS RN	Analyte
France							Source	Vei	Offic	1 laction	CAS_KN	
Banam								8	ug/L		7440-38-2	
Continue	< 3.3 U	1.59	3.13	1.56	8.07	2.91						
Cadmin	47											
Chromatim												
Chromism	S < 4.4 U	0.017 B		0.015 B		0.013 B						
Cooper	< 11 U	10.4		15.7		27.3						
Copper	- 110											
Fig.		9.83		5.81		6.63						
Mercury	-	-		-	0.021	-				D		
Menoral 7439-76	< 1.1 U	0.519		0.189		0.128			ug/L			Lead
Nickel				-								
Biddet												
Selection	-											
Silver	 < 5.6 U											
Silver	< 5.0 U			-								
Table Tabl	U <11 U	< 0.011 U		< 0.005 U								
Elly Times Table Fig.												
Butylin Inco	_											
Monobat/Wilh 1461-25-2 T ug/L												
Terbalytilin 1461-25-2			-	-	-	-			ug/L		14488-53-0	Dibutyltin Ion
Tributy file September S												
Polychiorinated Biphenyl Arcolors	-											
Anodor 1016 12874-11-2 T	-				1		GW-3	4.27E-06	ug/L	T	36643-28-4	
Ancelor 1221	< 0.053 U		40011		4 O O4 II		ı	1	//	- 1	40074 44 0	
Anodor 1322	< 0.053 U											
Aroclor 1242	< 0.053 U											
Aroclor 1248	< 0.053 U									Ť		
Arcolar 1262	< 0.053 U									Ť		
Arcolar 1262	0.059											
Arcolor 1268	< 0.053 U		< 0.2 U	-	< 0.21 U					T		
Total PCB Aroclors (ND=1/2 RL)	-		-		-	-				T		
Total PCBs (Sum of Arcotors) T.PCBs T ug/L TE-06 GW-2 < 0.21 UJ < 0.22 UJ				-		-	0111.0	== 00				
Polychlorinated Biphenyl Congeners	0.218 0.0590											
Total PCB Congeners	0.0590		V 0.2 03	-	V 0.21 00		GW-2	7 E-00	ug/L	<u> </u>	I-FCBS	Polychlorinated Rinhenyl Congeners
Total PCB TEQ (ND = 0) PCB-TEQ-0U T ug/L 4.43E-09 GW-2		-					GW-2	7E-06	ua/L	Т	T-PCBCong	Total PCB Congeners
Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 90-12-0 T ug/L 804 GW-3	-		-	-	-	-	GW-2	4.43E-09		T		Total PCB TEQ (ND = 0)
1-Methylnaphthalene			-	-	-	-	GW-2	4.43E-09	ug/L	T	PCB-TEQ-1/2U	
2-Methylnaphthalene												
Acenaphthene 83-32-9 T ug/L 5.34 GW-3 < 0.21 U < 0.21 U	< 0.1 U											
Acetapathylene 208-96-8 T ug/L	-						GW-3				91-57-6	
Anthracene	< 0.1 U < 0.1 U						GW-3	5.34				
Benzo(a h.ii)perviene	< 0.1 U						GW-3	2.15				
Fluoranthene 206.444.0 T ug/L 1.82 GW-3 < 0.21 U < 0.21 U	< 0.01 U						3.7-0	2.10		Ť		
Fluorene 88-73-7 T ug/L 3.67 GW-3 < 0.21 U < 0.21 U	< 0.1 U						GW-3	1.82		Ť		
Phenanthrene 85-01-8 T ug/L < 0.21 U < 0.21 U	< 0.1 U		< 0.21 U		< 0.21 U		GW-3	3.67		T	86-73-7	
Pyrene 129-00-0 T ug/L 2.01 GW-3 < 0.21 U	< 0.1 U						GW-2	1.4			91-20-3	
Benz(a)anthracene 56-55-3 T ug/L 0.00016 GW-2 < 0.21 U < 0.21 U	< 0.1 U											
Benzo(a)pyrene 50-32-8 T ug/L 1.6E-05 GW-2 < 0.21 U < 0.21 U	< 0.1 U					-						
Benzo(b) fluoranthene 205-99-2 T ug/L 0.00016 GW-2 < 0.21 U < 0.21 U Benzo(i) fluoranthene 205-82-3 T ug/L	< 0.01 U < 0.01 U			-		-						
Benzo(i)fluoranthene 205-82-3 T ug/L	< 0.01 U < 0.01 U											
							GVV-2	0.00010				
	< 0.01 U	_	_						ug/L	Ť	Benz-jk-fluor	Benzo(j,k)fluoranthene
Serzo(k/fluoranthene							GW-2	0.0016		Ť		
Chrysene 218-01-9 T ug/L 0.016 GW-2 < 0.21 U < 0.21 U	< 0.01 U						GW-2	0.016	ug/L		218-01-9	Chrysene
Dibenzo(a,h)anthracene 53-70-3 T ug/L 1.6E-05 GW-2 <0.21 U <0.21 U	< 0.01 U								ug/L			Dibenzo(a,h)anthracene
Indeno(1,2,3-cd)pyrene 193-39-5 T ug/L 0.00016 GW-2 - <0.21 U - <0.21 U -	< 0.01 U		< 0.21 U	-	< 0.21 U		GW-2	0.00016		T		
Total Benzofluoranthenes TOTBFA T ug/L							ļ			T		
Total HPAHs T-HPAH T ug/L < 0.21 < 0.21 Total LPAHs T-LPAH T ug/L < 0.21	< 0.1			-		-						
Total LPAHs T-LPAH T ug/L < 0.21 < 0.21 Total PAHs (ND=0) T-PAH T ug/L < 0.21	< 0.1 < 0.1			-		-	+	1				
	< 0.1						GW-2	0.00969				
Total CPARS TEQ (ND = 1/2 RDL)	< 0.00755									Ť		

		SB-22 07/27/2011 SB22-WATER-072711				
Analyte	CAS RN	Fraction	Unit	SPM_RI_GW_SLS _2022.02_action_le vel	Screening Level Source	
Metals			•			•
Arsenic	7440-38-2	D	ug/L	8	GW-5	-
Arsenic	7440-38-2	T	ug/L	8	GW-5	< 3.3 U
Barium	7440-39-3	T	ug/L	200	GW-2	< 28 U
Cadmium	7440-43-9 7440-43-9	D T	ug/L ug/L	1.19 1.19	GW-3 GW-3	< 4.4 U
Cadmium Chromium	7440-43-9	D	ug/L ug/L	27.4	GW-3 GW-2	< 4.4 U
Chromium	7440-47-3		ug/L	27.4	GW-2	< 11 U
Copper	7440-50-8	D	ug/L	3.1	GW-2	
Copper	7440-50-8	T	ug/L	3.1	GW-2	-
Lead	7439-92-1	D	ug/L	5.6	GW-2	-
Lead	7439-92-1	T	ug/L	5.6	GW-2	< 1.1 U
Mercury	7439-97-6	D	ug/L	0.025	GW-2	
Mercury	7439-97-6	Ţ	ug/L	0.025	GW-2	< 0.5 U
Nickel	7440-02-0 7440-02-0	D T	ug/L	8.2 8.2	GW-2 GW-2	-
Nickel Selenium	7782-49-2	T T	ug/L ug/L	8.2 71	GW-2 GW-2	< 5.6 U
Silver	7440-22-4	D	ug/L	1.9	GW-2	- 5.0 0
Silver	7440-22-4	T	ug/L	1.9	GW-2	< 11 U
Zinc	7440-66-6	D	ug/L	81	GW-2	-
Zinc	7440-66-6	T	ug/L	81	GW-2	
Butyl Tin Ions						
Dibutyltin Ion	14488-53-0	T	ug/L			
Monobutyltin	78763-54-9	<u>T</u>	ug/L			-
Tetrabutyltin	1461-25-2	<u>T</u>	ug/L	4.075.06	CW 2	-
Tributyltin Ion Polychlorinated Biphenyl Aroclors	36643-28-4		ug/L	4.27E-06	GW-3	
Aroclor 1016	12674-11-2	Т	ug/L	1		< 0.05 U
Aroclor 1221	11104-28-2	Ť	ug/L			< 0.05 U
Aroclor 1232	11141-16-5	Ť	ug/L			< 0.05 U
Aroclor 1242	53469-21-9	Ť	ug/L			< 0.05 U
Aroclor 1248	12672-29-6	T	ug/L			< 0.05 U
Aroclor 1254	11097-69-1	T	ug/L			0.1
Aroclor 1260	11096-82-5	T	ug/L			< 0.05 U
Aroclor 1262	37324-23-5	T T	ug/L	_		-
Aroclor 1268 Total PCB Aroclors (ND=1/2 RL)	11100-14-4 T-PCBs1/2U	<u> </u> T	ug/L ug/L	7E-06	GW-2	0.250
Total PCBs (Sum of Aroclors)	T-PCBs	Ť	ug/L	7E-06	GW-2	0.100
Polychlorinated Biphenyl Congeners	1-1 003		ug/L	72-00	OW-2	0.100
Total PCB Congeners	T-PCBCong	Т	ug/L	7E-06	GW-2	_
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	T	ug/L	4.43E-09	GW-2	-
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	T	ug/L	4.43E-09	GW-2	
Polycyclic Aromatic Hydrocarbons	20.40.0				0111.0	
1-Methylnaphthalene	90-12-0	<u>T</u>	ug/L	804	GW-3	< 0.1 U
2-Methylnaphthalene	91-57-6 83-32-9	T T	ug/L	14 5.34	GW-3	
Acenaphthene Acenaphthylene	208-96-8	T T	ug/L ug/L	J.3 4	GW-3	< 0.1 U < 0.1 U
Anthracene	120-12-7	Ť	ug/L	2.15	GW-3	< 0.1 U
Benzo(a.h.i)pervlene	191-24-2	Ť	ug/L			< 0.01 U
Fluoranthene	206-44-0	T	ug/L	1.82	GW-3	< 0.1 U
Fluorene	86-73-7	T	ug/L	3.67	GW-3	< 0.1 U
Naphthalene	91-20-3	T	ug/L	1.4	GW-2	< 0.1 U
Phenanthrene	85-01-8	T	ug/L			< 0.1 U
Pyrene	129-00-0	Ţ	ug/L	2.01	GW-3	< 0.1 U
Benz(a)anthracene Benzo(a)pyrene	56-55-3 50-32-8	T T	ug/L ug/L	0.00016 1.6E-05	GW-2 GW-2	< 0.01 U < 0.01 U
Benzo(b)fluoranthene	205-99-2	Ť	ug/L	0.00016	GW-2	< 0.01 U
Benzo(i)fluoranthene	205-82-3	Ť	ug/L	0.00010	OW-2	
Benzo(j,k)fluoranthene	Benz-jk-fluor	i	ug/L			< 0.01 U
Benzo(k)fluoranthene	207-08-9	Ť	ug/L	0.0016	GW-2	-
Chrysene	218-01-9	Т	ug/L	0.016	GW-2	< 0.01 U
Dibenzo(a,h)anthracene	53-70-3	T	ug/L	1.6E-05	GW-2	< 0.01 U
Indeno(1,2,3-cd)pyrene	193-39-5	<u>T</u>	ug/L	0.00016	GW-2	< 0.01 U
Total Benzofluoranthenes	TOTBFA	T	ug/L	+		
Total HPAHs Total LPAHs	T-HPAH T-LPAH	<u>T</u>	ug/L	+		< 0.1 < 0.1
Total PAHs (ND=0)	T-LPAH T-PAH	<u>'</u>	ug/L ug/L	+		< 0.1
Total cPAHs (ND=0)	T-cPAH-0U	T T	ug/L ug/L	0.00969	GW-2	< 0.1
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	Ť	ug/L	0.00969	GW-2	< 0.00755
		•	a-		· -	

					Location Date Sample	MW-04 03/31/2021	MW-04 05/27/2021	MW-05 03/31/2021	MW-05 05/27/2021	MW-06 03/29/2021	MW-07 03/29/2021
	1	1		SPM RI GW SLS	Gample	MW-04-210331	MW-04-210527	MW-05-210331	MW-05-210527	MW-06-210329	MW-07-210329
Analyte	CAS RN	Fraction	Unit	_2022.02_action_le	Screening Level Source						
Semivolatile Organic Compounds	CA3_KIV	FIACTION	Ullit	vei	Source			1			
2,4,5-Trichlorophenol	95-95-4	Т	ug/L	0.037	GW-2	<1U		<1U		< 1.1 U	<1U
2,4,6-Trichlorophenol	88-06-2	Ť	ug/L	600	GW-2	< 1 U	-	< 1 U	-	< 1.1 U	< 1 U
2,4-Dichlorophenol	120-83-2	T	ug/L	10	GW-2	<1U	-	<10	-	< 1.1 U	<10
2,4-Dimethylphenol	105-67-9	T	ug/L	2.91	GW-3	< 1 U		< 1 U	-	< 1.1 U	< 1 U
2,4-Dinitrophenol	51-28-5	Ţ	ug/L	100	GW-2	< 2 U	-	< 2 U	-	< 2.1 U	< 2 U
2,4-Dinitrotoluene 2.6-Dinitrotoluene	121-14-2 606-20-2	T	ug/L	0.18 74.9	GW-2 GW-3	< 1 U < 1 U		< 1 U < 1 U		< 1.1 U < 1.1 U	< 1 U < 1 U
2-Chloronaphthalene	91-58-7	+	ug/L ug/L	100	GW-3 GW-2	< 0.01 U	-	< 0.01 U		< 0.01 U	< 0.01 U
2-Chlorophenol	95-57-8	Ť	ug/L	17	GW-2	< 0.2 U		< 0.2 U	_	< 0.2 U	< 0.2 U
2-Methylphenol	95-48-7	Ť	ug/L	10.7	GW-3	< 0.2 U		0.06 J	-	< 0.2 U	< 0.2 U
2-Nitroaniline	88-74-4	T	ug/L	735000	GW-3	<1U		<1U	-	< 1.1 U	<1U
2-Nitrophenol	88-75-5	T	ug/L			< 1 U		< 1 U	-	< 1.1 U	< 1 U
3,3'-Dichlorobenzidine	91-94-1	Ţ	ug/L	0.0033	GW-2	<1U		< 1 U	-	< 1.1 U	< 1 U
3-Nitroaniline 4,6-Dinitro-2-methylphenol	99-09-2 534-52-1	T	ug/L	7	GW-2	< 1 U < 2 U		< 1 U < 2 U		< 1.1 U < 2.1 U	< 1 U < 2 U
4-Bromophenyl phenyl ether	101-55-3	'	ug/L ug/L		Gvv-2	< 0.2 U		< 0.2 U	-	< 0.2 U	< 0.2 U
4-Chloro-3-methylphenol	59-50-7	Ť	ug/L	36	GW-2	<1U	_	< 1 U	-	< 1.1 U	< 1 U
4-Chloroaniline	106-47-8	Ť	ug/L	2400	GW-3	< 1 U	_	<1U	-	_	-
4-Chlorophenyl phenyl ether	7005-72-3	T	ug/L			< 0.2 U	-	< 0.2 U	-	< 0.2 U	< 0.2 U
4-Methylphenol	106-44-5	Ţ	ug/L	106	GW-3	< 0.2 U		0.1 J	-	< 0.2 U	< 0.2 U
4-Nitroaniline	100-01-6 100-02-7	T	ug/L	106000	GW-3	< 1 U < 1 U		< 1 U < 1 U		< 1.1 U < 1.1 U	< 1 U < 1 U
4-Nitrophenol Benzoic acid	65-85-0	T	ug/L ug/L	589	GW-3	0.4 J		< 2 U	-	< 2.1 U	< 2 U
Benzyl alcohol	100-51-6	÷	ug/L	56.4	GW-3	< 0.2 U		< 0.2 U	-	< 0.2 U	< 0.2 U
Benzyl butyl phthalate	85-68-7	T	ug/L	0.013	GW-2	< 0.2 U	-	< 0.2 U		< 0.2 U	< 0.2 U
Bis(2-chloro-1-methylethyl) ether	108-60-1	T	ug/L	900	GW-2	< 0.2 U	-	< 0.2 U	-	< 0.2 U	< 0.2 U
Bis(2-chloroethoxy)methane	111-91-1	Ţ	ug/L		0141.0	< 0.2 U		< 0.2 U	-	< 0.2 U	< 0.2 U
Bis(2-chloroethyl) ether	111-44-4 117-81-7	T T	ug/L	0.06 0.046	GW-2 GW-2	< 0.2 U		< 0.2 U		< 0.2 U < 0.2 U	< 0.2 U < 0.2 U
Bis(2-ethylhexyl) phthalate Carbazole	86-74-8	+	ug/L ug/L	0.046	GVV-2	0.6 0.007 J		0.6 1.2	_	< 0.2 U	< 0.2 U
Dibenzofuran	132-64-9	Ť	ug/L	3.09	GW-3	0.023 Q		0.322	-	0.002 J	< 0.01 U
Diethyl phthalate	84-66-2	T	ug/L	92.6	GW-3	1.4	_	< 0.2 U	-	< 0.2 U	< 0.2 U
Dimethyl phthalate	131-11-3	T	ug/L	59	GW-3	< 0.2 U	-	< 0.2 U	-	< 0.2 U	< 0.2 U
Di-n-butyl phthalate	84-74-2	T	ug/L	8	GW-2	< 0.2 U		0.5	-	< 0.2 U	0.05 J
Di-n-octyl phthalate Hexachlorobenzene	117-84-0 118-74-1	T	ug/L ug/L	2.31 5E-06	GW-3 GW-2	< 0.2 U < 0.0013 U		< 0.2 U < 0.0013 U	-	< 0.2 U < 0.0013 U	< 0.2 U < 0.0013 U
Hexachlorobutadiene	87-68-3	+	ug/L	0.01	GW-2	< 0.2 U		< 0.2 U		< 0.0013 U	< 0.0013 U
Hexachlorocyclopentadiene	77-47-4	Ť	ug/L	1	GW-2	< 1 U		< 1 U	_	< 1.1 U	< 1 U
Hexachloroethane	67-72-1	T	ug/L	0.02	GW-2	< 0.2 U		< 0.2 U	_	< 0.2 U	< 0.2 U
Isophorone	78-59-1	T	ug/L	110	GW-2	< 0.2 U	-	< 0.2 U	-	< 0.2 U	< 0.2 U
Nitrobenzene	98-95-3	T	ug/L	100 0.058	GW-2	< 0.2 U		< 0.2 U < 0.2 U	-	< 0.2 U < 0.2 U	< 0.2 U
N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	621-64-7 86-30-6	+	ug/L ug/L	0.058	GW-2 GW-3	< 0.2 U < 0.2 U		0.3	-	< 0.2 U	< 0.2 U < 0.2 U
Pentachlorophenol	87-86-5	Ť	ug/L	0.002	GW-2	<1U		< 1 U		< 1.1 U	< 1 U
Perylene	198-55-0	Ť	ug/L	0.002		< 0.01 U		< 0.01 U	-	< 0.01 U	< 0.01 U
Phenol	108-95-2	T	ug/L	101	GW-3	< 0.2 U	-	0.1 J	-	< 0.2 U	< 0.2 U
Pesticides and Herbicides	E0 10 0	-		1	-	4.0.004011	1	24324.11		4 0 004011	4 0 0040 11
2,4'-DDD 2,4'-DDE	53-19-0 3424-82-6	I T	ug/L ug/L			< 0.0013 U < 0.0013 U		< 1 Y1, U < 0.0013 U		< 0.0013 U < 0.0013 U	< 0.0013 U < 0.0013 U
2,4'-DDE 2,4'-DDT	789-02-6	Ť	ug/L			< 0.0013 U		< 0.0013 U		< 0.0013 U	< 0.0013 U
4,4'-DDD	72-54-8	Ť	ug/L	7.9E-06	GW-2	< 0.0013 U		< 0.0013 U		< 0.0013 U	< 0.0013 U
4,4'-DDE	72-55-9	T	ug/L	8.8E-07	GW-2	< 0.0013 U	-	< 0.0013 U		< 0.0013 U	< 0.0013 U
4,4'-DDT	50-29-3	Ţ	ug/L	1.2E-06	GW-2	< 0.0013 U		< 0.0013 U	-	< 1 U	< 0.0013 U
Aldrin Alpha-BHC	309-00-2 319-84-6	T T	ug/L ug/L	4.1E-08 4.8E-05	GW-2 GW-2	0.0364 < 0.0006		0.0663 D < 1 Y1. U	-	< 1 U 0.0031	< 0.0006 U < 0.0006 U
Beta-BHC	319-84-6	+	ug/L ug/L	4.8E-05 0.0014	GW-2	< 0.0006 U		< 1 Y1, U < 0.0006 U	-	< 0.0031 < 0.0006 U	< 0.0006 U
cis-Chlordane	5103-71-9	Ť	ug/L	0.00014	GW-3	< 0.0006 U		< 0.0006 U		< 0.0006 U	< 0.0006 U
cis-Nonachlor	5103-73-1	Ť	ug/L			< 0.0013 U		< 0.0013 U		< 0.0013 U	< 0.0013 U
Delta-BHC	319-86-8	T	ug/L			< 0.0006 U	-	< 0.0006 U	-	< 0.0006 U	< 0.0006 U
Dieldrin	60-57-1	Ţ	ug/L	1.2E-06	GW-2	0.037	-	0.0158	-	0.0265	< 0.0013 U
Endosulfan I Endosulfan II	959-98-8 33213-65-9	T	ug/L ug/L	0.0087 0.0087	GW-2 GW-2	< 0.0006 U < 0.0013 U		< 0.0006 U < 0.0013 U		< 0.0006 U < 0.0013 U	< 0.0006 U < 0.0013 U
Endosulfan II Endosulfan Sulfate	1031-07-8	T	ug/L ug/L	10	GW-2	< 0.0013 U		< 0.0013 U		< 0.0013 U	< 0.0013 U
Endrin	72-20-8	Ť	ug/L	0.002	GW-2	< 0.0013 U	-	< 0.0013 U	-	< 0.0013 U	< 0.0013 U
Endrin Aldehyde	7421-93-4	Ť	ug/L	0.035	GW-2	< 0.0013 U	-	< 0.0013 U	-	< 0.0013 U	< 0.0013 U
Endrin ketone	53494-70-5	Ţ	ug/L			< 0.0013 U	-	< 0.0013 U		< 0.0013 U	< 0.0013 U
Heptachlor	76-44-8	T	ug/L	3.4E-07	GW-2	< 0.0006 U	-	< 1 Y1, U	-	< 0.0006 U	< 0.0006 U
Heptachlor Epoxide	1024-57-3	I i	ug/L	2.4E-06	GW-2	< 0.0006 U	-	< 0.0006 U	-	< 0.0006 U	< 0.0006 U

					Location Date	MW-08 03/29/2021	MW-08 05/27/2021	MW-09 03/29/2021	MW-10 03/30/2021	MW-11 03/30/2021	MW-12 03/30/2021
					Sample	MW-08-210329	MW-08-210527	MW-09-210329	MW-10-210330	MW-11-210330	MW-12-210330
Analyte	CAS RN	Fraction	Unit	SPM_RI_GW_SLS _2022.02_action_le vel	Screening Level Source						
Semivolatile Organic Compounds											
2,4,5-Trichlorophenol	95-95-4	Ī	ug/L	0.037	GW-2	-	-	-	-	< 1.1 U	-
2,4,6-Trichlorophenol 2,4-Dichlorophenol	88-06-2 120-83-2	T T	ug/L	600 10	GW-2 GW-2	-	-	-	-	< 1.1 U < 1.1 U	-
2,4-Dichlorophenol	105-67-9	Ť	ug/L ug/L	2.91	GW-2	-				< 1.1 U	-
2,4-Dinitrophenol	51-28-5	Ť	ug/L	100	GW-2				-	< 2.1 U	
2,4-Dinitrotoluene	121-14-2	Ť	ug/L	0.18	GW-2	-	-	-	-	< 1.1 U	-
2,6-Dinitrotoluene	606-20-2	Т	ug/L	74.9	GW-3	-	-	-	_	< 1.1 U	-
2-Chloronaphthalene	91-58-7	T	ug/L	100	GW-2	< 0.013 U		-	-	< 0.01 U	< 0.01 U
2-Chlorophenol 2-Methylphenol	95-57-8 95-48-7	T T	ug/L	17 10.7	GW-2 GW-3	-			-	< 0.2 U < 0.2 U	
2-Nitroaniline	88-74-4	Ť	ug/L ug/L	735000	GW-3	-		-	-	< 1.1 U	-
2-Nitrophenol	88-75-5	Ť	ug/L	733000	GW-3					< 1.1 U	-
3,3'-Dichlorobenzidine	91-94-1	T	ug/L	0.0033	GW-2		-	-	-	< 1.1 U	-
3-Nitroaniline	99-09-2	Т	ug/L			-	-		-	< 1.1 U	-
4,6-Dinitro-2-methylphenol	534-52-1	Ţ	ug/L	7	GW-2	-	-	-		< 2.1 U	-
4-Bromophenyl phenyl ether	101-55-3	T	ug/L	00	011/ 0	-	-	-	-	< 0.2 U	-
4-Chloro-3-methylphenol 4-Chloroaniline	59-50-7 106-47-8	T	ug/L ug/L	36 2400	GW-2 GW-3				-	< 1.1 U 	
4-Chlorophenyl phenyl ether	7005-72-3	Ť	ug/L ug/L	2400	GVV-3	-		-	-	< 0.2 U	-
4-Methylphenol	106-44-5	Ť	ug/L	106	GW-3	-	-	-	-	< 0.2 U	-
4-Nitroaniline	100-01-6	Ť	ug/L	106000	GW-3	-	-	-	-	< 1.1 U	-
4-Nitrophenol	100-02-7	T	ug/L			-	-	-	-	< 1.1 U	-
Benzoic acid	65-85-0	T	ug/L	589	GW-3	-	-		-	< 2.1 U	
Benzyl alcohol	100-51-6	Ţ	ug/L	56.4	GW-3	-			-	< 0.2 U	
Benzyl butyl phthalate Bis(2-chloro-1-methylethyl) ether	85-68-7 108-60-1	T T	ug/L ug/L	0.013 900	GW-2 GW-2	-			-	< 0.2 U < 0.2 U	
Bis(2-chloroethoxy)methane	111-91-1	Ť	ug/L ug/L	900	GVV-2			_		< 0.2 U	
Bis(2-chloroethyl) ether	111-44-4	Ť	ug/L	0.06	GW-2					< 0.2 U	
Bis(2-ethylhexyl) phthalate	117-81-7	T	ug/L	0.046	GW-2	_	_	-	-	< 0.2 U	-
Carbazole	86-74-8	T	ug/L			< 0.013 U	-	-	-	< 0.01 U	< 0.01 U
Dibenzofuran	132-64-9	T	ug/L	3.09	GW-3	< 0.013 U		-	-	0.002 J	0.002 J
Diethyl phthalate Dimethyl phthalate	84-66-2 131-11-3	T T	ug/L	92.6 59	GW-3 GW-3	-	-	-	-	0.1 J < 0.2 U	-
Di-n-butyl phthalate	84-74-2	Ť	ug/L ug/L	8	GW-3			-	-	< 0.2 U	-
Di-n-octyl phthalate	117-84-0	Ť	ug/L	2.31	GW-3	-			-	< 0.2 U	
Hexachlorobenzene	118-74-1	Ť	ug/L	5E-06	GW-2	< 0.0013 U		_	_	< 0.0013 U	-
Hexachlorobutadiene	87-68-3	Т	ug/L	0.01	GW-2	< 0.0013 U		< 0.5 U	< 0.5 U	< 0.0013 U	< 0.5 U
Hexachlorocyclopentadiene	77-47-4	T	ug/L	1	GW-2	-		-	-	< 1.1 U	-
Hexachloroethane	67-72-1	T T	ug/L	0.02	GW-2	-				< 0.2 U	
Isophorone Nitrobenzene	78-59-1 98-95-3	T	ug/L ug/L	110 100	GW-2 GW-2	-			-	< 0.2 U < 0.2 U	
N-Nitroso-di-n-propylamine	621-64-7	Ť	ug/L	0.058	GW-2	-	-			< 0.2 U	
N-Nitrosodiphenylamine	86-30-6	Ť	ug/L	0.554	GW-3	-	-	_	_	< 0.2 U	-
Pentachlorophenol	87-86-5	T	ug/L	0.002	GW-2	-			-	< 1.1 U	
Perylene	198-55-0	T	ug/L			< 0.013 U	-	-		< 0.01 U	< 0.01 U
Phenol Posticides and Harbinides	108-95-2	Т	ug/L	101	GW-3		-		-	< 0.2 U	
Pesticides and Herbicides 2,4'-DDD	53-19-0	т	ug/L			< 0.0013 U	l	I		< 0.0013 U	
2,4'-DDE	3424-82-6	Ť	ug/L ug/L			< 0.0013 U		-	-	< 0.0013 U	-
2,4'-DDT	789-02-6	Ť	ug/L		_	< 0.0013 U		-	-	< 0.0013 U	-
4,4'-DDD	72-54-8	Т	ug/L	7.9E-06	GW-2	< 0.0013 U		-		< 0.0013 U	
4,4'-DDE	72-55-9	Ţ	ug/L	8.8E-07	GW-2	< 0.0013 U		-	-	< 0.0013 U	-
4,4'-DDT	50-29-3	T	ug/L	1.2E-06	GW-2	< 0.0013 U	-		-	< 0.0013 U	
Aldrin Alpha-BHC	309-00-2 319-84-6	T T	ug/L ug/L	4.1E-08 4.8E-05	GW-2 GW-2	0.0027 0.0027				0.0032 0.0033	
Beta-BHC	319-85-7	Ť	ug/L	0.0014	GW-2	< 0.0027	-		-	< 0.0006 U	-
cis-Chlordane	5103-71-9	Ť	ug/L	0.000103	GW-3	< 0.0006 U		-	-	< 0.0006 U	
cis-Nonachlor	5103-73-1	Т	ug/L			< 0.0013 U	-	_	_	< 0.0013 U	-
Delta-BHC	319-86-8	T	ug/L			< 0.0006 U	-		-	< 0.0006 U	
Dieldrin	60-57-1	Ţ	ug/L	1.2E-06	GW-2	< 0.0013 U	-	-	-	< 0.0013 U	-
Endosulfan I Endosulfan II	959-98-8 33213-65-9	T	ug/L ug/L	0.0087 0.0087	GW-2 GW-2	< 0.0006 U < 0.0013 U				< 0.0006 U < 0.0013 U	
Endosulfan Sulfate	1031-07-8	Ť	ug/L ug/L	10	GW-2	< 0.0013 U	-	-	-	< 0.0013 U	-
Endrin Surate	72-20-8	Ť	ug/L	0.002	GW-2	< 0.0013 U	-	-	-	< 0.0013 U	-
Endrin Aldehyde	7421-93-4	Ť	ug/L	0.035	GW-2	< 0.0013 U	-		-	< 0.0013 U	
Endrin ketone	53494-70-5	Т	ug/L			< 0.0013 U		-		< 0.0013 U	-
Heptachlor	76-44-8	Ţ	ug/L	3.4E-07	GW-2	< 0.0006 U		-	-	< 0.0006 U	-
Heptachlor Epoxide	1024-57-3	T	ug/L	2.4E-06	GW-2	< 0.0006 U			I	< 0.0006 U	I -

					Location Date	MW-13 03/31/2021	MW-13 05/27/2021	MW-14 03/31/2021	MW-15 03/30/2021	MW-15 05/27/2021	MW-01 10/09/2007
		1	T	SPM RI GW SLS	Sample	MW-13-210331	MW-13-210527	MW-14-210331	MW-15-210330	MW-15-210527	MW-1-100907
A b . b .	040 PM	Footbas	11-34	_2022.02_action_le	Screening Level						
Analyte Semivolatile Organic Compounds	CAS_RN	Fraction	Unit	vel	Source						
2,4,5-Trichlorophenol	95-95-4	Т	ug/L	0.037	GW-2			<1U	<1U	-	
2,4,6-Trichlorophenol	88-06-2	Ť	ug/L	600	GW-2	_		< 1 U	<1U		
2,4-Dichlorophenol	120-83-2	Ť	ug/L	10	GW-2	-	-	< 1 U	< 1 U		-
2,4-Dimethylphenol	105-67-9	T	ug/L	2.91	GW-3	-	-	< 1 U	< 1 U		< 4.1 U
2,4-Dinitrophenol	51-28-5	T	ug/L	100	GW-2	-	-	< 2 U	< 2 U		-
2,4-Dinitrotoluene	121-14-2	T	ug/L	0.18	GW-2	-	-	< 1 U	<1U		
2,6-Dinitrotoluene	606-20-2	T	ug/L	74.9	GW-3			< 1 U	<1U	-	-
2-Chloronaphthalene	91-58-7	T	ug/L	100 17	GW-2	< 0.01 U	-	< 0.01 U	< 0.01 U		
2-Chlorophenol 2-Methylphenol	95-57-8 95-48-7	T	ug/L ug/L	10.7	GW-2 GW-3	-	-	< 0.2 U < 0.2 U	< 0.2 U < 0.2 U		< 0.51 U
2-Nitroaniline	88-74-4	T	ug/L	735000	GW-3	-	-	< 1 U	< 1 U	-	< 0.51 0
2-Nitrophenol	88-75-5	÷	ug/L	733000	GW-3	-		<10	<10		
3,3'-Dichlorobenzidine	91-94-1	Ť	ug/L	0.0033	GW-2	_	-	<1U	<1U		
3-Nitroaniline	99-09-2	Ť	ug/L			-	-	< 1 U	< 1 U		
4,6-Dinitro-2-methylphenol	534-52-1	T	ug/L	7	GW-2	-	-	< 2 U	< 2 U	-	-
4-Bromophenyl phenyl ether	101-55-3	T	ug/L			-	-	< 0.2 U	< 0.2 U		-
4-Chloro-3-methylphenol	59-50-7	T	ug/L	36	GW-2	-		< 1 U	<1U	-	-
4-Chloroaniline	106-47-8	T	ug/L	2400	GW-3	-	-	<10			
4-Chlorophenyl phenyl ether	7005-72-3	T T	ug/L	400	GW-3	-	-	< 0.2 U	< 0.2 U		
4-Methylphenol 4-Nitroaniline	106-44-5 100-01-6	T	ug/L ug/L	106 106000	GW-3 GW-3	-		< 0.2 U < 1 U	< 0.2 U < 1 U	-	< 0.51 U
4-Nitrophenol	100-01-6	Ť	ug/L ug/L	100000	GVV-3	-		<10	<10		
Benzoic acid	65-85-0	Ť	ug/L	589	GW-3	-		< 2 U	< 2 U		< 5.1 U
Benzyl alcohol	100-51-6	Ť	ug/L	56.4	GW-3	-	_	< 0.2 U	< 0.2 U	-	< 5.1 U
Benzyl butyl phthalate	85-68-7	T	ug/L	0.013	GW-2	-	-	< 0.2 U	< 0.2 U		< 0.21 U
Bis(2-chloro-1-methylethyl) ether	108-60-1	Т	ug/L	900	GW-2	-	-	< 0.2 U	< 0.2 U	-	-
Bis(2-chloroethoxy)methane	111-91-1	T	ug/L			-	-	< 0.2 U	< 0.2 U		
Bis(2-chloroethyl) ether	111-44-4	T	ug/L	0.06	GW-2	-	-	< 0.2 U	< 0.2 U		
Bis(2-ethylhexyl) phthalate	117-81-7	T	ug/L	0.046	GW-2		-	< 0.2 U	< 0.2 U		< 1.1 U
Carbazole Dibenzofuran	86-74-8 132-64-9	T	ug/L	3.09	GW-3	0.001 J 0.003 J		< 0.01 U 0.002 J	< 0.01 U		 < 0.21 U
Diethyl phthalate	84-66-2	Ť	ug/L ug/L	92.6	GW-3	0.003 J	-	0.002 J 0.07 J	0.002 J < 0.2 U		0.036 T
Dimethyl phthalate	131-11-3	Ť	ug/L	59	GW-3	_		< 0.2 U	< 0.2 U		< 0.21 U
Di-n-butyl phthalate	84-74-2	T	ug/L	8	GW-2	-	-	< 0.2 U	< 0.2 U		0.065 T
Di-n-octyl phthalate	117-84-0	T	ug/L	2.31	GW-3	-	-	< 0.2 U	< 0.2 U	-	< 0.21 U
Hexachlorobenzene	118-74-1	T	ug/L	5E-06	GW-2	-	-	< 0.2 U	< 0.0013 U		< 0.21 U
Hexachlorobutadiene	87-68-3	T	ug/L	0.01	GW-2	< 0.5 U	-	< 0.2 U	< 0.0013 U		< 0.21 U
Hexachlorocyclopentadiene	77-47-4 67-72-1	T T	ug/L	0.02	GW-2 GW-2	-	-	< 1 U < 0.2 U	< 1 U < 0.2 U		-
Hexachloroethane Isophorone	67-72-1 78-59-1	T	ug/L ug/L	110	GW-2 GW-2		-	< 0.2 U	< 0.2 U		
Nitrobenzene	98-95-3	<u> </u>	ug/L	100	GW-2	-		< 0.2 U	< 0.2 U		
N-Nitroso-di-n-propylamine	621-64-7	÷	ug/L	0.058	GW-2			< 0.2 U	< 0.2 U		-
N-Nitrosodiphenylamine	86-30-6	Ť	ug/L	0.554	GW-3	-	_	< 0.2 U	< 0.2 U	-	< 0.21 U
Pentachlorophenol	87-86-5	T	ug/L	0.002	GW-2	-	-	<1U	<1U	_	< 1.1 U
Perylene	198-55-0	T	ug/L			< 0.01 U		< 0.01 U	< 0.01 U		-
Phenol	108-95-2	Т	ug/L	101	GW-3			< 0.2 U	< 0.2 U		< 0.51 U
Pesticides and Herbicides	50.40.0	T -					1	1		I	
2,4'-DDD 2,4'-DDE	53-19-0 3424-82-6	T	ug/L ug/L						< 0.0013 U < 0.0013 U	-	< 0.011 U < 0.011 U
2,4'-DDT	789-02-6	Ť	ug/L						< 0.0013 U		< 0.011 U
4,4'-DDD	72-54-8	Ť	ug/L	7.9E-06	GW-2	_	-	-	< 0.0013 U	-	< 0.011 U
4,4'-DDE	72-55-9	T	ug/L	8.8E-07	GW-2	ı	-	-	< 0.0013 U		< 0.011 U
4,4'-DDT	50-29-3	Т	ug/L	1.2E-06	GW-2	-	-	-	< 0.0013 U	-	< 0.011 Ui
Aldrin	309-00-2	T	ug/L	4.1E-08	GW-2	-			< 0.0006 U	-	< 0.011 U
Alpha-BHC	319-84-6	Ţ	ug/L	4.8E-05	GW-2	-	-	-	0.0038		
Beta-BHC	319-85-7	T	ug/L	0.0014 0.000103	GW-2 GW-3	-		-	< 0.0006 U		-
cis-Chlordane cis-Nonachlor	5103-71-9 5103-73-1	T	ug/L ug/L	0.000103	GVV-3		-	-	< 0.0006 U < 0.0013 U		
Delta-BHC	319-86-8	Ť	ug/L ug/L	+			-	-	< 0.0013 U		-
Dieldrin	60-57-1	Ť	ug/L	1.2E-06	GW-2	_		-	< 0.0013 U		< 0.011 U
Endosulfan I	959-98-8	Ť	ug/L	0.0087	GW-2	-	-	-	< 0.0006 U		
Endosulfan II	33213-65-9	Т	ug/L	0.0087	GW-2	-	-	-	< 0.0013 U	-	-
	1001 07 0	т —	ug/L	10	GW-2	-			< 0.0013 U	-	
Endosulfan Sulfate	1031-07-8										
Endosulfan Sulfate Endrin	72-20-8	Ţ	ug/L	0.002	GW-2	-	-	-	< 0.0013 U		
Endosulfan Sulfate Endrin Endrin Aldehyde	72-20-8 7421-93-4	Ť	ug/L ug/L		GW-2 GW-2				< 0.0013 U		
Endosulfan Sulfate Endrin	72-20-8		ug/L	0.002						 	 < 0.011 U

					Location Date	MW-01 03/12/2008	MW-02 10/09/2007	MW-02 03/12/2008	MW-03 10/08/2007	MW-03 03/12/2008	SB-21 07/27/2011
	1	1		SPM RI GW SLS	Sample	MW-1-031208	MW-2-100907	MW-2-031208	MW-3-100807	MW-3-031208	SB21-WATER-072711
				_2022.02_action_le	Screening Level						
Analyte	CAS_RN	Fraction	Unit	vel	Source					1	
Semivolatile Organic Compounds 2,4,5-Trichlorophenol	95-95-4	т	ug/L	0.037	GW-2	-				I	T
2,4,6-Trichlorophenol	88-06-2	Ť	ug/L	600	GW-2				-		
2,4-Dichlorophenol	120-83-2	Ť	ug/L	10	GW-2	_	_		_	-	_
2,4-Dimethylphenol	105-67-9	Ť	ug/L	2.91	GW-3	-	< 4.1 U		< 4.1 U		
2,4-Dinitrophenol	51-28-5	T	ug/L	100	GW-2	_	-		-	-	< 5 U
2,4-Dinitrotoluene	121-14-2	T	ug/L	0.18	GW-2	-	-		-	-	
2,6-Dinitrotoluene	606-20-2	T	ug/L	74.9	GW-3	-	_		_	-	-
2-Chloronaphthalene	91-58-7	T	ug/L	100	GW-2	-					-
2-Chlorophenol	95-57-8	T	ug/L	17	GW-2	-				-	-
2-Methylphenol	95-48-7	T	ug/L	10.7	GW-3	-	< 0.51 U		< 0.51 U		-
2-Nitroaniline	88-74-4	Ţ	ug/L	735000	GW-3	-	-		-		-
2-Nitrophenol	88-75-5	T T	ug/L	0.0022	CW/ 2	-					
3,3'-Dichlorobenzidine	91-94-1	T	ug/L	0.0033	GW-2	-			-		
3-Nitroaniline	99-09-2 534-52-1	T	ug/L	7	GW-2					-	
4,6-Dinitro-2-methylphenol 4-Bromophenyl phenyl ether	101-55-3	T T	ug/L ug/L		GvV-2					-	
4-Chloro-3-methylphenol	59-50-7	Ť	ug/L	36	GW-2						
4-Chloroaniline	106-47-8	Ť	ug/L	2400	GW-2						
4-Chlorophenyl phenyl ether	7005-72-3	Ť	ug/L	2,100	3.4-0		-		-		-
4-Methylphenol	106-44-5	Ť	ug/L	106	GW-3	-	< 0.51 U		< 0.51 U	_	1 -
4-Nitroaniline	100-01-6	T	ug/L	106000	GW-3	_	-		-	-	_
4-Nitrophenol	100-02-7	Ť	ug/L			-	-		-	-	-
Benzoic acid	65-85-0	T	ug/L	589	GW-3	-	< 5.1 U	-	< 5.1 U	-	_
Benzyl alcohol	100-51-6	T	ug/L	56.4	GW-3	-	< 5.1 U		< 5.1 U		
Benzyl butyl phthalate	85-68-7	T	ug/L	0.013	GW-2	-	< 0.21 U		< 0.21 U	-	-
Bis(2-chloro-1-methylethyl) ether	108-60-1	T	ug/L	900	GW-2	-	_		-	-	_
Bis(2-chloroethoxy)methane	111-91-1	T	ug/L			-			-	-	-
Bis(2-chloroethyl) ether	111-44-4	T	ug/L	0.06	GW-2	-					
Bis(2-ethylhexyl) phthalate	117-81-7	T T	ug/L	0.046	GW-2	-	< 1.1 U		< 1.1 U		< 1 U
Carbazole	86-74-8 132-64-9	T	ug/L	3.09	GW-3	-	 < 0.21 U		 < 0.21 U	-	-
Dibenzofuran Diethyl phthalate	84-66-2	Ť	ug/L	92.6	GW-3	-	0.059 T	-	0.21 U		-
Dimethyl phthalate	131-11-3	i i	ug/L ug/L	92.6 59	GW-3		< 0.21 U		< 0.21 U		
Di-n-butyl phthalate	84-74-2	'	ug/L	8	GW-3 GW-2		0.08 T		0.08 T	-	-
Di-n-octyl phthalate	117-84-0	Ť	ug/L	2.31	GW-3		< 0.21 U		< 0.21 U		+
Hexachlorobenzene	118-74-1	Ť	ug/L	5E-06	GW-2	-	< 0.21 U		< 0.21 U		
Hexachlorobutadiene	87-68-3	Ť	ug/L	0.01	GW-2	< 2 U	< 0.21 U	< 2 U	< 0.21 U	< 2 U	
Hexachlorocyclopentadiene	77-47-4	T	ug/L	1	GW-2	-	-		_	-	
Hexachloroethane	67-72-1	T	ug/L	0.02	GW-2	_	_	_	_	-	_
Isophorone	78-59-1	T	ug/L	110	GW-2	-	-		-		
Nitrobenzene	98-95-3	T	ug/L	100	GW-2	_	-		-	-	-
N-Nitroso-di-n-propylamine	621-64-7	T	ug/L	0.058	GW-2	-	-		-		-
N-Nitrosodiphenylamine	86-30-6	T	ug/L	0.554	GW-3	-	< 0.21 U		< 0.21 U		
Pentachlorophenol	87-86-5	T	ug/L	0.002	GW-2	-	< 1.1 U		< 1.1 U	-	_
Perylene	198-55-0	T	ug/L	40.4	0111.0	-					+
Phenol Pesticides and Harbisides	108-95-2	Т	ug/L	101	GW-3	-	< 0.51 U		< 0.51 U	-	
Pesticides and Herbicides 2.4'-DDD	53-19-0	т	ug/L	1	1	< 0.0005 U	< 0.011 U	< 0.00049 Ui	< 0.01 U	< 0.0005 U	1
2,4'-DDE	3424-82-6	T	ug/L ug/L	+		< 0.0005 U	< 0.011 U < 0.011 U	< 0.00049 UI < 0.00049 U	< 0.01 U	< 0.0005 U	_
2,4'-DDE 2,4'-DDT	789-02-6	T	ug/L ug/L	+		< 0.0005 U	< 0.011 U	< 0.00049 U	0.001 T	< 0.0005 Ui	+
4,4'-DDD	72-54-8	Ť	ug/L	7.9E-06	GW-2	< 0.0005 U	< 0.011 U	< 0.00049 Ui	< 0.01 U	< 0.00097 Ui	< 0.0052 U
4,4'-DDE	72-55-9	Ť	ug/L	8.8E-07	GW-2	< 0.0005 U	< 0.011 U	< 0.00049 U	< 0.01 Ui	< 0.0005 U	< 0.0052 U
4,4'-DDT	50-29-3	Ť	ug/L	1.2E-06	GW-2	< 0.0005 Ui	0.0022 JP	0.00082 P	< 0.01 Ui	0.0014	< 0.0052 U
Aldrin	309-00-2	T	ug/L	4.1E-08	GW-2	< 0.0005 U	< 0.011 U	< 0.00049 U	0.0012 T	0.0012 J	< 0.0052 U
Alpha-BHC	319-84-6	Ť	ug/L	4.8E-05	GW-2	-	-	-	-		< 0.0052 U
Beta-BHC	319-85-7	T	ug/L	0.0014	GW-2	-			_		< 0.0052 U
cis-Chlordane	5103-71-9	Т	ug/L	0.000103	GW-3	< 0.0005 U	-	< 0.00049 U	-	< 0.0005 U	< 0.0052 U
cis-Nonachlor	5103-73-1	T	ug/L			-			-	-	
Delta-BHC	319-86-8	T	ug/L				-		-		< 0.0052 U
Dieldrin	60-57-1	T	ug/L	1.2E-06	GW-2	< 0.0005 U	0.0015 T	0.00071	0.021	0.041 D	< 0.082 U
Endosulfan I	959-98-8	T	ug/L	0.0087	GW-2	-			-		< 0.0052 U
Endosulfan II	33213-65-9	T	ug/L	0.0087	GW-2	-	-	-	-	-	< 0.0052 U
Endosulfan Sulfate	1031-07-8	T	ug/L	10	GW-2	-	-	-	-		< 0.0052 U
Endrin	72-20-8 7421-93-4	T	ug/L ug/L	0.002 0.035	GW-2					-	< 0.0052 U
Endrin Aldebyde			uu/L	0.030	GW-2		-		-		< 0.0052 U
Endrin Aldehyde		т			ì						< 0.02111
Endrin Aldehyde Endrin ketone Heptachlor	53494-70-5 76-44-8	T T	ug/L ug/L	3.4E-07	GW-2	 < 0.0005 Ui	 < 0.011 U	 < 0.00049 Ui	 < 0.01 U	< 0.0005 U	< 0.021 U < 0.0052 U

					Location Date Sample	SB-22 07/27/2011
	•				Sample	SB22-WATER-072711
Analyte	CAS RN	Fraction	Unit	SPM_RI_GW_SLS _2022.02_action_le vel	Screening Level Source	
Semivolatile Organic Compounds	CA3_KN	FIACTION	Offic	vei	Source	
2,4,5-Trichlorophenol	95-95-4	Т	ug/L	0.037	GW-2	-
2,4,6-Trichlorophenol	88-06-2	T	ug/L	600	GW-2	_
2,4-Dichlorophenol	120-83-2	T	ug/L	10	GW-2	-
2,4-Dimethylphenol	105-67-9	T	ug/L	2.91	GW-3	-
2,4-Dinitrophenol	51-28-5	T T	ug/L	100	GW-2	< 5.2 U
2,4-Dinitrotoluene	121-14-2	T T	ug/L	0.18	GW-2	-
2,6-Dinitrotoluene 2-Chloronaphthalene	606-20-2 91-58-7	Ť	ug/L ug/L	74.9 100	GW-3 GW-2	-
2-Chlorophenol	95-57-8	Ť	ug/L ug/L	17	GW-2	
2-Methylphenol	95-48-7	Ť	ug/L	10.7	GW-3	
2-Nitroaniline	88-74-4	T	ug/L	735000	GW-3	-
2-Nitrophenol	88-75-5	T	ug/L			-
3,3'-Dichlorobenzidine	91-94-1	T	ug/L	0.0033	GW-2	-
3-Nitroaniline	99-09-2	T	ug/L			-
4,6-Dinitro-2-methylphenol	534-52-1	T	ug/L	7	GW-2	-
4-Bromophenyl phenyl ether	101-55-3	T T	ug/L	26	CW 2	-
4-Chloro-3-methylphenol	59-50-7 106-47-8	T T	ug/L	36 2400	GW-2 GW-3	-
4-Chloroaniline 4-Chlorophenyl phenyl ether	7005-72-3	T	ug/L ug/L	2400	GW-3	
4-Methylphenol	106-44-5	Ť	ug/L	106	GW-3	
4-Nitroaniline	100-44-5	Ť	ug/L	106000	GW-3	
4-Nitrophenol	100-02-7	Ť	ug/L			-
Benzoic acid	65-85-0	T	ug/L	589	GW-3	_
Benzyl alcohol	100-51-6	Т	ug/L	56.4	GW-3	-
Benzyl butyl phthalate	85-68-7	T	ug/L	0.013	GW-2	
Bis(2-chloro-1-methylethyl) ether	108-60-1	T	ug/L	900	GW-2	-
Bis(2-chloroethoxy)methane	111-91-1	T T	ug/L	0.06	GW-2	-
Bis(2-chloroethyl) ether	111-44-4 117-81-7	T	ug/L ug/L	0.06	GW-2	 <1U
Bis(2-ethylhexyl) phthalate Carbazole	86-74-8	Ť	ug/L ug/L	0.046	GVV-2	<10
Dibenzofuran	132-64-9	Ť	ug/L	3.09	GW-3	_
Diethyl phthalate	84-66-2	T	ug/L	92.6	GW-3	
Dimethyl phthalate	131-11-3	T	ug/L	59	GW-3	-
Di-n-butyl phthalate	84-74-2	T	ug/L	8	GW-2	-
Di-n-octyl phthalate	117-84-0	T	ug/L	2.31	GW-3	-
Hexachlorobenzene	118-74-1	Ţ	ug/L	5E-06	GW-2	-
Hexachlorobutadiene	87-68-3	T	ug/L	0.01	GW-2	
Hexachlorocyclopentadiene Hexachloroethane	77-47-4 67-72-1	T T	ug/L ug/L	1 0.02	GW-2 GW-2	
Isophorone	78-59-1	Ť	ug/L	110	GW-2	
Nitrobenzene	98-95-3	Ť	ug/L	100	GW-2	
N-Nitroso-di-n-propylamine	621-64-7	Ť	ug/L	0.058	GW-2	-
N-Nitrosodiphenylamine	86-30-6	T	ug/L	0.554	GW-3	-
Pentachlorophenol	87-86-5	T	ug/L	0.002	GW-2	-
Perylene	198-55-0	T	ug/L			-
Phenol Pesticides and Herbicides	108-95-2	T	ug/L	101	GW-3	
2.4'-DDD	53-19-0	Т	ug/L	1		I
2.4'-DDE	3424-82-6	Ť	ug/L			
2,4'-DDT	789-02-6	Ť	ug/L			
4,4'-DDD	72-54-8	Ť	ug/L	7.9E-06	GW-2	< 0.005 U
4,4'-DDE	72-55-9	T	ug/L	8.8E-07	GW-2	< 0.005 U
4,4'-DDT	50-29-3	T	ug/L	1.2E-06	GW-2	< 0.005 U
Aldrin	309-00-2	T	ug/L	4.1E-08	GW-2	0.01
Alpha-BHC	319-84-6	T	ug/L	4.8E-05	GW-2	< 0.005 U
Beta-BHC	319-85-7	<u>T</u>	ug/L	0.0014	GW-2	< 0.005 U
cis-Chlordane	5103-71-9	T T	ug/L	0.000103	GW-3	< 0.005 U
cis-Nonachlor Delta-BHC	5103-73-1 319-86-8	T T	ug/L ug/L	+		< 0.005 U
Dieldrin	60-57-1	T	ug/L ug/L	1.2E-06	GW-2	< 0.005 U
Endosulfan I	959-98-8	Ť	ug/L	0.0087	GW-2	< 0.005 U
Endosulfan II	33213-65-9	Ť	ug/L	0.0087	GW-2	< 0.005 U
Endosulfan Sulfate	1031-07-8	T	ug/L	10	GW-2	< 0.005 U
Endrin	72-20-8	T	ug/L	0.002	GW-2	< 0.005 U
Endrin Aldehyde	7421-93-4	T	ug/L	0.035	GW-2	< 0.005 U
Endrin ketone	53494-70-5	T	ug/L			< 0.02 U
Heptachlor Epoxide	76-44-8 1024-57-3	T T	ug/L	3.4E-07 2.4E-06	GW-2 GW-2	< 0.005 U < 0.005 U
			ug/L			

					Location Date Sample	MW-04 03/31/2021	MW-04 05/27/2021	MW-05 03/31/2021	MW-05 05/27/2021	MW-06 03/29/2021	MW-07 03/29/2021
				LODIA DI OWI OLO	Sample	MW-04-210331	MW-04-210527	MW-05-210331	MW-05-210527	MW-06-210329	MW-07-210329
Analysis	040 PM	Footbas	11-26	SPM_RI_GW_SLS _2022.02_action_le	Screening Level						
Analyte Lindane	CAS_RN 58-89-9	Fraction T	Unit ug/L	vel 0.126	Source GW-2	< 0.0006 U	_	< 0.0006 U		< 0.0006 U	< 0.0006 U
Methoxychlor	72-43-5	Ť	ug/L	0.02	GW-2	< 0.0063 U		< 0.0063 U		< 0.0063 U	< 0.0063 U
Mirex	2385-85-5	Ť	ug/L	0.001	GW-2	< 0.0003 U		< 0.0013 U		< 0.0003 U	< 0.0013 U
Oxychlordane	27304-13-8	T	ug/L			< 0.0013 U	-	< 0.0013 U		< 0.0013 U	< 0.0013 U
Total Chlordane	57-74-9	Т	ug/L	2.2E-05	GW-2	-	-	-		-	_
Toxaphene	8001-35-2	T	ug/L	3.2E-05	GW-2	-	-	-	-	-	-
trans-Chlordane	5103-74-2	T	ug/L	0.000103	GW-3	< 0.0006 U		< 0.0006 U		< 0.0006 U	< 0.0006 U
trans-Nonachlor	39765-80-5	T	ug/L			< 0.0013 U		< 0.0013 U		< 0.0013 U	< 0.0013 U
Total Petroleum Hydrocarbons	TPH-GRO	T T	//	800	GW-2	< 100 U		282		< 100 U	< 100 U
Gasoline Range Organics Diesel Range Organics	TPH-GRO	+	ug/L ug/L	500	GW-2	744		4430		< 100 U	< 100 U
Motor Oil Range Organics	TPH-DRO	Ť	ug/L	500	GW-2	630		923		< 211 U	< 250 U
Diesel and Oil Extended Range Organics	TPH-EXT	Ť	ug/L	500	GW-2	1370		5350		< 211	< 250
Volatile Organic Compounds	111112/11		ugre		O11 2	10.0					- 200
1,1,1,2-Tetrachloroethane	630-20-6	T	ug/L	7.11	GW-4	< 0.2 U	_	< 0.2 U		< 0.2 U	< 0.2 U
1,1,1-Trichloroethane	71-55-6	Т	ug/L	5450	GW-4	< 0.2 U	-	< 0.2 U	-	< 0.2 U	< 0.2 U
1,1,2,2-Tetrachloroethane	79-34-5	T	ug/L	0.3	GW-2	< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
1,1,2-Trichloroethane	79-00-5	T	ug/L	0.9	GW-2	< 0.2 U	-	< 0.2 U		< 0.2 U	< 0.2 U
1,1,2-Trichlorotrifluoroethane	76-13-1	T	ug/L	167	GW-4	< 0.2 U	-	< 0.2 U		< 0.2 U	< 0.2 U
1,1-Dichloroethane	75-34-3 75-35-4	T	ug/L	11 130	GW-4 GW-4	< 0.2 U < 0.2 U		< 0.2 U < 0.2 U		< 0.2 U < 0.2 U	< 0.2 U < 0.2 U
1,1-Dichloroethene 1,1-Dichloropropene	75-35-4 563-58-6	<u> </u>	ug/L ug/L	130	GVV-4	< 0.2 U		< 0.2 U	-	< 0.2 U	< 0.2 U
1,2,3-Trichlorobenzene	87-61-6	+	ug/L ug/L	7260	GW-3	< 0.5 U		< 0.5 U		< 0.2 U	< 0.2 U
1,2,3-Trichloropropane	96-18-4	Ť	ug/L	6.77	GW-3	< 0.5 U		< 0.5 U		< 0.5 U	< 0.5 U
1,2,4-Trichlorobenzene	120-82-1	Ť	ug/L	0.964	GW-3	< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
1,2,4-Trimethylbenzene	95-63-6	T	ug/L	239	GW-4	0.13 J		< 0.2 U		< 0.2 U	< 0.2 U
1,2-Dibromo-3-chloropropane	96-12-8	T	ug/L	0.0423	GW-4	< 0.5 U		< 0.5 U		< 0.5 U	< 0.5 U
1,2-Dibromoethane (EDB)	106-93-4	T	ug/L	0.296	GW-4	< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
1,2-Dichlorobenzene	95-50-1	T	ug/L	4.48	GW-3	0.11 J		3.34		< 0.2 U	< 0.2 U
1,2-Dichloroethane (EDC)	107-06-2	T	ug/L	3.48	GW-4	< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
1,2-Dichloropropane 1,3.5-Trimethylbenzene	78-87-5 108-67-8	T T	ug/L	3.1 167	GW-2 GW-4	< 0.2 U < 0.2 U		< 0.2 U < 0.2 U	-	< 0.2 U < 0.2 U	< 0.2 U < 0.2 U
1,3-Dichlorobenzene	541-73-1	Ť	ug/L ug/L	2	GW-2	< 0.2 U		0.08 J		< 0.2 U	< 0.2 U
1.3-Dichloropropane	142-28-9	÷ ÷	ug/L	2460000	GW-3	< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
1,4-Dichloro-2-Butene	110-57-6	Ť	ug/L		71.7	<1U		< 1 U		<1U	< 1 U
1,4-Dichlorobenzene	106-46-7	T	ug/L	4.96	GW-4	0.04 J		0.5	_	< 0.2 U	< 0.2 U
2,2-Dichloropropane	594-20-7	T	ug/L			< 0.2 U	-	< 0.2 U		< 0.2 U	< 0.2 U
2-Butanone	78-93-3	T	ug/L	1710000	GW-4	< 5 U		< 5 U		< 5 U	< 5 U
2-Chlorotoluene	95-49-8	T	ug/L	618000	GW-3	< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
2-Hexanone 2-Pentanone	591-78-6 107-87-9	T	ug/L ug/L	7260	GW-4	< 5 U < 5 U		< 5 U < 5 U		< 5 U < 5 U	< 5 U < 5 U
4-Chlorotoluene	106-43-4	T	ug/L ug/L			< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
4-Methyl-2-pentanone	108-10-1	Ť	ug/L	466000	GW-4	< 5 U	-	< 5 U		< 5 U	< 5 U
Acetone	67-64-1	Ť	ug/L	338000000	GW-3	4.99 J		5.32		< 5 U	< 5 U
Acrolein	107-02-8	Т	ug/L	1.1	GW-2	< 5 U	-	< 5 U		< 5 U	< 5 U
Acrylonitrile	107-13-1	Т	ug/L	0.028	GW-2	<1U	-	<10	-	<1U	<1U
Benzene	71-43-2	T	ug/L	1.6	GW-2	< 0.2 U		0.63		< 0.2 U	< 0.2 U
Bromobenzene	108-86-1	T	ug/L	633	GW-4	< 0.2 U	-	< 0.2 U		< 0.2 U	< 0.2 U
Bromochloromethane	74-97-5 75-27-4	T	ug/L	1.37	GW-4	< 0.2 U < 0.2 U	-	< 0.2 U < 0.2 U	-	< 0.2 U < 0.2 U	< 0.2 U < 0.2 U
Bromodichloromethane Bromoform	75-27-4 75-25-2	T	ug/L ug/L	1.37	GW-4 GW-2	< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
Bromomethane	74-83-9	T T	ug/L ug/L	10.9	GW-2 GW-4	< 1 U	-	< 1 U		< 1 U	< 1 U
Carbon Disulfide	75-15-0	Ť	ug/L	836	GW-4	< 0.2 U	-	< 0.2 U		< 0.2 U	< 0.2 U
Carbon Tetrachloride	56-23-5	Ť	ug/L	0.35	GW-2	< 0.2 U	_	< 0.2 U	-	< 0.2 U	< 0.2 U
Chlorobenzene	108-90-7	T	ug/L	200	GW-2	< 0.2 U	_	1.44	_	< 0.2 U	< 0.2 U
Chloroethane	75-00-3	T	ug/L	14700	GW-4	< 0.2 U	-	< 0.2 U	-	< 0.2 U	< 0.2 U
Chloroform	67-66-3	T	ug/L	1.18	GW-4	< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
Chloromethane	74-87-3	T	ug/L	153	GW-4	< 0.5 U	-	< 0.5 U		< 0.5 U	< 0.5 U
cis-1,2-Dichloroethene (cDCE)	156-59-2 10061-01-5	T	ug/L	359000 1.2	GW-3 GW-2	< 0.2 U < 0.2 U		0.12 J < 0.2 U		< 0.2 U < 0.2 U	< 0.2 U < 0.2 U
cis-1,3-Dichloropropene Dibromochloromethane	124-48-1	T	ug/L ug/L	2.2	GW-2	< 0.2 U	<u></u>	< 0.2 U	<u>-</u>	< 0.2 U	< 0.2 U
Dibromomethane	74-95-3	Ť	ug/L ug/L	86.4	GW-2 GW-4	< 0.2 U	-	< 0.2 U		< 0.2 U	< 0.2 U
Dichlorodifluoromethane	75-71-8	Ť	ug/L	4.24	GW-4	< 0.2 U	-	< 0.2 U		< 0.2 U	< 0.2 U
Ethylbenzene	100-41-4	T	ug/L	21	GW-2	< 0.2 U		0.46	-	< 0.2 U	< 0.2 U
Isopropylbenzene	98-82-8	T	ug/L	907	GW-4	< 0.2 U		1.74		< 0.2 U	< 0.2 U
	179601-23-1	T	ug/L			< 0.4 U		1.22		< 0.4 U	< 0.4 U
m,p-Xylenes											
m,p-Xylenes Methyl tert-butyl ether (MTBE) Methylene Chloride	1634-04-4 75-09-2	T	ug/L ug/L	801 100	GW-4 GW-2	< 0.5 U < 1 U		< 0.5 U < 1 U		< 0.5 U < 1 U	< 0.5 U < 1 U

					Location Date	MW-08 03/29/2021	MW-08 05/27/2021	MW-09 03/29/2021	MW-10 03/30/2021	MW-11 03/30/2021	MW-12 03/30/2021
		1	1	SPM RI GW SLS	Sample	MW-08-210329	MW-08-210527	MW-09-210329	MW-10-210330	MW-11-210330	MW-12-210330
Accelor	040 PM	F	11-2	_2022.02_action_le	Screening Level						
Analyte Lindane	CAS_RN 58-89-9	Fraction T	Unit ug/L	vel 0.126	Source GW-2	< 0.0006 U	_		_	< 0.0006 U	
Methoxychlor	72-43-5	Ť	ug/L	0.120	GW-2	< 0.0063 U				< 0.0063 U	
Mirex	2385-85-5	Ť	ug/L	0.001	GW-2	< 0.0013 U	-		-	< 0.0013 U	
Oxychlordane	27304-13-8	T	ug/L			< 0.0013 U	-		-	< 0.0013 U	
Total Chlordane	57-74-9	T	ug/L	2.2E-05	GW-2	-	-		-		
Toxaphene	8001-35-2	Ţ	ug/L	3.2E-05	GW-2		-		-		
trans-Chlordane	5103-74-2	T	ug/L	0.000103	GW-3	< 0.0006 U				< 0.0006 U	
trans-Nonachlor Total Petroleum Hydrocarbons	39765-80-5		ug/L			< 0.0013 U				< 0.0013 U	
Gasoline Range Organics	TPH-GRO	Т	ug/L	800	GW-2	< 100 U		101	< 100 U	< 100 U	< 100 U
Diesel Range Organics	TPH-DRO	Ť	ug/L	500	GW-2	< 123 U				< 105 U	< 105 U
Motor Oil Range Organics	TPH-ORO	T	ug/L	500	GW-2	< 247 U		_		< 211 U	< 211 U
Diesel and Oil Extended Range Organics	TPH-EXT	Т	ug/L	500	GW-2	< 247	-		-	< 211	< 211
Volatile Organic Compounds			•					•			1
1,1,1,2-Tetrachloroethane	630-20-6	T	ug/L	7.11	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,1,1-Trichloroethane	71-55-6 79-34-5	T	ug/L	5450 0.3	GW-4 GW-2	< 0.2 U < 0.2 U		< 0.2 U < 0.2 U			
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	79-34-5 79-00-5	<u> </u>	ug/L ug/L	0.3	GW-2 GW-2	< 0.2 U < 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1.1.2-Trichloroethane	79-00-5 76-13-1	Ť	ug/L ug/L	167	GW-2 GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,1-Dichloroethane	75-34-3	Ť	ug/L	11	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,1-Dichloroethene	75-35-4	T	ug/L	130	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,1-Dichloropropene	563-58-6	T	ug/L			< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,2,3-Trichlorobenzene	87-61-6	Т	ug/L	7260	GW-3	< 0.5 U	-	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,3-Trichloropropane	96-18-4	T	ug/L	6.77	GW-3	< 0.5 U		< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
1,2,4-Trichlorobenzene	120-82-1	T	ug/L	0.964	GW-3	< 0.5 U	-	< 0.5 U	< 0.5 U	< 0.2 U	< 0.5 U
1,2,4-Trimethylbenzene	95-63-6	T T	ug/L	239	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,2-Dibromo-3-chloropropane	96-12-8 106-93-4	T	ug/L	0.0423 0.296	GW-4 GW-4	< 0.5 U < 0.2 U		< 0.5 U < 0.2 U			
1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene	95-50-1	Ť	ug/L ug/L	4.48	GW-3	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,2-Dichloroethane (EDC)	107-06-2	T	ug/L	3.48	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,2-Dichloropropane	78-87-5	Ť	ug/L	3.1	GW-2	< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,3,5-Trimethylbenzene	108-67-8	T	ug/L	167	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,3-Dichlorobenzene	541-73-1	T	ug/L	2	GW-2	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,3-Dichloropropane	142-28-9	T	ug/L	2460000	GW-3	< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
1,4-Dichloro-2-Butene	110-57-6	T	ug/L			<1U	-	<1U	<1U	<10	< 1 U
1,4-Dichlorobenzene	106-46-7	T	ug/L	4.96	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
2,2-Dichloropropane	594-20-7	T	ug/L	1710000	GW-4	< 0.2 U		< 0.2 U < 5 U	< 0.2 U < 5 U	< 0.2 U < 5 U	< 0.2 U
2-Butanone 2-Chlorotoluene	78-93-3 95-49-8	<u> </u>	ug/L	618000	GW-3	< 5 U < 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 5 U < 0.2 U
2-Hexanone	591-78-6	Ť	ug/L ug/L	7260	GW-4	< 5 U	-	< 5 U	< 5 U	< 5 U	< 5 U
2-Pentanone	107-87-9	Ť	ug/L	7200	0114	< 5 U		< 5 U	< 5 U	< 5 U	< 5 U
4-Chlorotoluene	106-43-4	T	ug/L			< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
4-Methyl-2-pentanone	108-10-1	T	ug/L	466000	GW-4	< 5 U		< 5 U	< 5 U	< 5 U	< 5 U
Acetone	67-64-1	T	ug/L	338000000	GW-3	< 5 U		6.99	< 5 U	4.52 J	< 5 U
Acrolein	107-02-8	T	ug/L	1.1	GW-2	< 5 U		< 5 U	< 5 U	< 5 U	< 5 U
Acrylonitrile	107-13-1	Ţ	ug/L	0.028	GW-2	<10	-	< 1 U	<10	<10	< 1 U
Benzene Bromobenzene	71-43-2 108-86-1	T	ug/L ug/L	1.6 633	GW-2 GW-4	< 0.2 U < 0.2 U		< 0.2 U < 0.2 U			
Bromochloromethane	74-97-5	'	ug/L ug/L	033	GVV-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Bromodichloromethane	75-27-4	Ť	ug/L	1.37	GW-4	< 0.2 U	_	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Bromoform	75-25-2	Ť	ug/L	12	GW-2	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Bromomethane	74-83-9	Ť	ug/L	10.9	GW-4	<1U		< 1 U	< 1 U	< 1 U	< 1 U
Carbon Disulfide	75-15-0	Т	ug/L	836	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Carbon Tetrachloride	56-23-5	T	ug/L	0.35	GW-2	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Chlorobenzene	108-90-7	Ţ	ug/L	200	GW-2	< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Chloroethane Chloroform	75-00-3	T	ug/L	14700	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Chloroform Chloromethane	67-66-3 74-87-3	T	ug/L ug/L	1.18 153	GW-4 GW-4	< 0.2 U < 0.5 U		< 0.2 U < 0.5 U			
cis-1,2-Dichloroethene (cDCE)	156-59-2	<u> </u>	ug/L ug/L	359000	GW-4 GW-3	< 0.5 U		8.12	< 0.5 U	< 0.5 U	< 0.2 U
cis-1,3-Dichloropropene	10061-01-5	Ť	ug/L	1.2	GW-2	< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
	124-48-1	Ť	ug/L	2.2	GW-2	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Dibromochioromethane				86.4	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Dibromochloromethane Dibromomethane	74-95-3	T	ug/L	00.4							
Dibromomethane Dichlorodifluoromethane	74-95-3 75-71-8	T	ug/L	4.24	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Dibromomethane Dichlorodifluoromethane Ethylbenzene	74-95-3 75-71-8 100-41-4	T T T	ug/L ug/L	4.24 21	GW-2	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Dibromomethane Dichlorodifluoromethane Ethylbenzene Isopropylbenzene	74-95-3 75-71-8 100-41-4 98-82-8	Ť	ug/L ug/L ug/L	4.24		< 0.2 U < 0.2 U	 	< 0.2 U < 0.2 U			
Dibromomethane Dichlorodifluoromethane Ethylbenzene Isopropylbenzene m,p-Xylenes	74-95-3 75-71-8 100-41-4 98-82-8 179601-23-1		ug/L ug/L ug/L ug/L	4.24 21 907	GW-2 GW-4	< 0.2 U < 0.2 U < 0.4 U		< 0.2 U < 0.2 U < 0.4 U	< 0.2 U < 0.2 U < 0.4 U	< 0.2 U < 0.2 U < 0.4 U	< 0.2 U < 0.2 U < 0.4 U
Dibromomethane Dichlorodifluoromethane Ethylbenzene Isopropylbenzene	74-95-3 75-71-8 100-41-4 98-82-8	Ť	ug/L ug/L ug/L	4.24 21	GW-2	< 0.2 U < 0.2 U		< 0.2 U < 0.2 U			

					Location Date	MW-13 03/31/2021	MW-13 05/27/2021	MW-14 03/31/2021	MW-15 03/30/2021	MW-15 05/27/2021	MW-01 10/09/2007
					Sample	MW-13-210331	MW-13-210527	MW-14-210331	MW-15-210330	MW-15-210527	MW-1-100907
Analyte	CAS RN	Fraction	Unit	SPM_RI_GW_SLS _2022.02_action_le	Screening Level Source						
Lindane	58-89-9	T	ug/L	0.126	GW-2	-		-	< 0.0006 U	_	< 0.011 U
Methoxychlor	72-43-5	T	ug/L	0.02	GW-2	-			< 0.0063 U	-	-
Mirex	2385-85-5	T	ug/L	0.001	GW-2	-	-	-	< 0.0013 U	-	-
Oxychlordane	27304-13-8	Ţ	ug/L	0.05.05	0111.0	-	-	-	< 0.0013 U		
Total Chlordane	57-74-9 8001-35-2	T	ug/L ug/L	2.2E-05 3.2E-05	GW-2 GW-2				-		< 0.21 U
Toxaphene trans-Chlordane	5103-74-2	†	ug/L	0.000103	GW-2 GW-3	-	_		< 0.0006 U		-
trans-Nonachlor	39765-80-5	Ť	ug/L	0.000100	011 0	_			< 0.0013 U		_
Total Petroleum Hydrocarbons											
Gasoline Range Organics	TPH-GRO	Ţ	ug/L	800	GW-2	2810	-	< 100 U	< 100 U		< 250 U
Diesel Range Organics	TPH-DRO TPH-ORO	T	ug/L	500 500	GW-2 GW-2	< 100 U		< 100 U	< 100 U < 200 U		< 630 U < 630 U
Motor Oil Range Organics Diesel and Oil Extended Range Organics	TPH-ORO	+	ug/L ug/L	500	GW-2	< 200 U < 200	-	< 200 U < 200	< 200 0		< 630 U
Volatile Organic Compounds	H H-EXI		ug/L	000	OW-E	1200		1 200	1 200		1 000 0
1,1,1,2-Tetrachloroethane	630-20-6	T	ug/L	7.11	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U		< 0.5 U
1,1,1-Trichloroethane	71-55-6	T	ug/L	5450	GW-4	< 0.2 U		< 0.2 U	< 0.2 U		< 0.5 U
1,1,2,2-Tetrachloroethane	79-34-5	T	ug/L	0.3	GW-2	< 0.2 U	-	< 0.2 U	< 0.2 U		< 0.5 U
1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane	79-00-5 76-13-1	T	ug/L ug/L	0.9 167	GW-2 GW-4	< 0.2 U < 0.2 U		< 0.2 U < 0.2 U	< 0.2 U < 0.2 U		< 0.5 U
1,1-Dichloroethane	75-34-3	+	ug/L ug/L	11	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U		< 0.5 U
1,1-Dichloroethene	75-35-4	Ť	ug/L	130	GW-4	3.2		< 0.2 U	< 0.2 U		< 0.5 U
1,1-Dichloropropene	563-58-6	Ť	ug/L			< 0.2 U		< 0.2 U	< 0.2 U	_	< 0.5 U
1,2,3-Trichlorobenzene	87-61-6	T	ug/L	7260	GW-3	< 0.5 U		< 0.5 U	< 0.5 U	-	< 2 U
1,2,3-Trichloropropane	96-18-4	Ţ	ug/L	6.77	GW-3	< 0.5 U	-	< 0.5 U	< 0.5 U	-	< 0.5 U
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	120-82-1 95-63-6	T	ug/L ug/L	0.964 239	GW-3 GW-4	< 0.5 U 0.15 J	-	< 0.2 U < 0.2 U	< 0.2 U < 0.2 U		< 0.21 U < 2 U
1,2-Dibromo-3-chloropropane	96-12-8	i i	ug/L	0.0423	GW-4	< 0.5 U	_	< 0.5 U	< 0.5 U		< 2 U
1,2-Dibromoethane (EDB)	106-93-4	Ť	ug/L	0.296	GW-4	< 0.2 U		< 0.2 U	< 0.2 U		<2U
1,2-Dichlorobenzene	95-50-1	T	ug/L	4.48	GW-3	0.21	-	< 0.2 U	< 0.2 U		< 0.21 U
1,2-Dichloroethane (EDC)	107-06-2	T	ug/L	3.48	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U	-	< 0.5 U
1,2-Dichloropropane	78-87-5	T	ug/L	3.1 167	GW-2	< 0.2 U	-	< 0.2 U	< 0.2 U		< 0.5 U
1,3,5-Trimethylbenzene 1,3-Dichlorobenzene	108-67-8 541-73-1	<u> </u>	ug/L ug/L	167	GW-4 GW-2	< 0.2 U < 0.2 U		< 0.2 U < 0.2 U	< 0.2 U < 0.2 U	-	< 2 U < 0.5 U
1,3-Dichloropropane	142-28-9	Ť	ug/L	2460000	GW-3	< 0.2 U		< 0.2 U	< 0.2 U		< 0.5 U
1,4-Dichloro-2-Butene	110-57-6	T	ug/L			<1U		<10	< 1 U	-	-
1,4-Dichlorobenzene	106-46-7	T	ug/L	4.96	GW-4	0.41	-	< 0.2 U	< 0.2 U	-	< 0.21 U
2,2-Dichloropropane	594-20-7	T	ug/L	4740000	0147.4	< 0.2 U	-	< 0.2 U	< 0.2 U		< 0.5 U
2-Butanone 2-Chlorotoluene	78-93-3 95-49-8	+	ug/L ug/L	1710000 618000	GW-4 GW-3	< 5 U < 0.2 U		< 5 U < 0.2 U	< 5 U < 0.2 U		< 20 U < 2 U
2-Hexanone	591-78-6	÷ ÷	ug/L	7260	GW-4	< 5 U		< 5 U	< 5 U	-	< 20 U
2-Pentanone	107-87-9	Ť	ug/L			< 5 U		< 5 U	< 5 U	-	-
4-Chlorotoluene	106-43-4	Т	ug/L			< 0.2 U	-	< 0.2 U	< 0.2 U	-	< 2 U
4-Methyl-2-pentanone	108-10-1	T	ug/L	466000	GW-4	< 5 U	-	< 5 U	< 5 U	-	< 20 U
Acetone Acrolein	67-64-1 107-02-8	<u> </u>	ug/L ug/L	338000000	GW-3 GW-2	4.44 J < 5 U		5.6 < 5 U	< 5 U < 5 U		< 20 U
Acrylonitrile	107-13-1	†	ug/L	0.028	GW-2	<1U		<1U	<1U		
Benzene	71-43-2	Ť	ug/L	1.6	GW-2	0.07 J		< 0.2 U	< 0.2 U		< 0.5 U
Bromobenzene	108-86-1	T	ug/L	633	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U	-	< 2 U
Bromochloromethane	74-97-5	Ţ	ug/L	4.07	014/ 4	< 0.2 U	-	< 0.2 U	< 0.2 U		< 0.5 U
Bromodichloromethane Bromoform	75-27-4 75-25-2	T	ug/L	1.37 12	GW-4 GW-2	< 0.2 U < 0.2 U	-	< 0.2 U < 0.2 U	< 0.2 U < 0.2 U		< 0.5 U < 0.5 U
Bromoform Bromomethane	75-25-2 74-83-9	+	ug/L ug/L	10.9	GW-2 GW-4	< 0.2 U < 1 U		< 0.2 U	< 0.2 U		< 0.5 U
Carbon Disulfide	75-15-0	Ť	ug/L	836	GW-4	< 0.2 U	_	< 0.2 U	< 0.2 U	-	< 0.5 U
Carbon Tetrachloride	56-23-5	Т	ug/L	0.35	GW-2	< 0.2 U	-	< 0.2 U	< 0.2 U		< 0.5 U
Chlorobenzene	108-90-7	Ī	ug/L	200	GW-2	< 0.2 U	-	< 0.2 U	< 0.2 U	-	< 0.5 U
Chloroform	75-00-3 67-66-3	T	ug/L	14700 1.18	GW-4 GW-4	< 0.2 U		< 0.2 U < 0.2 U	< 0.2 U < 0.2 U	-	< 0.5 U < 0.5 U
Chloroform Chloromethane	74-87-3	T T	ug/L ug/L	1.18	GW-4	0.69 < 0.5 U		< 0.2 U	< 0.2 U	-	< 0.5 U
cis-1,2-Dichloroethene (cDCE)	156-59-2	Ť	ug/L	359000	GW-4 GW-3	555	-	< 0.2 U	< 0.2 U	-	< 0.5 U
cis-1,3-Dichloropropene	10061-01-5	Ť	ug/L	1.2	GW-2	< 0.2 U	_	< 0.2 U	< 0.2 U	_	< 0.5 U
Dibromochloromethane	124-48-1	Т	ug/L	2.2	GW-2	< 0.2 U	-	< 0.2 U	< 0.2 U		< 0.5 U
Dibromomethane	74-95-3	Ţ	ug/L	86.4	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U		< 0.5 U
Dichlorodifluoromethane Ethylborrope	75-71-8	T	ug/L	4.24	GW-4	< 0.2 U		< 0.2 U	< 0.2 U		< 0.5 U
Ethylbenzene Isopropylbenzene	100-41-4 98-82-8	T T	ug/L ug/L	21 907	GW-2 GW-4	< 0.2 U < 0.2 U		< 0.2 U < 0.2 U	< 0.2 U < 0.2 U		< 0.5 U < 2 U
m,p-Xylenes	179601-23-1	Ť	ug/L	301	Gvv-4	< 0.4 U	-	< 0.4 U	< 0.4 U	-	< 0.5 U
Methyl tert-butyl ether (MTBE)	1634-04-4	Ť	ug/L	801	GW-4	< 0.5 U	_	< 0.5 U	< 0.5 U		-
Methylene Chloride	75-09-2	Т	ug/L	100	GW-2	< 1 U	-	< 1 U	<1U	_	< 2 U
Methyliodide	74-88-4	T	ug/L			< 1 U	-	< 1 U	< 1 U		

					Location Date Sample	MW-01 03/12/2008	MW-02 10/09/2007	MW-02 03/12/2008	MW-03 10/08/2007	MW-03 03/12/2008	SB-21 07/27/2011
	ı	1		SPM RI GW SLS	Sample	MW-1-031208	MW-2-100907	MW-2-031208	MW-3-100807	MW-3-031208	SB21-WATER-072711
Analyte	CAS RN	Fraction	Unit	_2022.02_action_le	Screening Level Source						
Lindane	58-89-9	T	ug/L	0.126	GW-2	< 0.0005 U	< 0.011 U	< 0.00049 U	< 0.01 U	< 0.0005 U	< 0.0052 U
Methoxychlor	72-43-5	Ť	ug/L	0.02	GW-2						< 0.01 U
Mirex	2385-85-5	Ť	ug/L	0.001	GW-2	-		-	-	_	
Oxychlordane	27304-13-8	T	ug/L			-	-			-	-
Total Chlordane	57-74-9	Ţ	ug/L	2.2E-05	GW-2	< 0.0099 Ui	< 0.21 U	< 0.0097 Ui	< 0.2 U	< 0.01 Ui	
Toxaphene	8001-35-2 5103-74-2	T	ug/L	3.2E-05 0.000103	GW-2 GW-3	< 0.0005 U		< 0.00049 U	-	< 0.0005 U	< 0.052 U
trans-Chlordane trans-Nonachlor	39765-80-5	T	ug/L ug/L	0.000103	GW-3	< 0.0005 0		< 0.00049 0	-	< 0.0005 0	0.015
Total Petroleum Hydrocarbons	39703-00-3		L uq/L			-			-	_	
Gasoline Range Organics	TPH-GRO	Т	ug/L	800	GW-2	-	< 250 U		< 250 U	-	< 100 U
Diesel Range Organics	TPH-DRO	T	ug/L	500	GW-2		< 630 U		< 630 U		< 270 U
Motor Oil Range Organics	TPH-ORO	T	ug/L	500	GW-2	-	< 630 U		< 630 U	-	< 440 U
Diesel and Oil Extended Range Organics	TPH-EXT	Т	ug/L	500	GW-2	-	< 630 U		< 630 U	-	< 440 U
Volatile Organic Compounds	000.00.0	т		7.44	014/4	.0.5.11	.0511	.0511	.0511	.0511	
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	630-20-6 71-55-6		ug/L ug/L	7.11 5450	GW-4 GW-4	< 0.5 U < 0.5 U	< 0.5 U < 0.5 U	< 0.5 U < 0.5 U	< 0.5 U < 0.5 U	< 0.5 U < 0.5 U	
1,1,2,2-Tetrachloroethane	79-34-5	'	ug/L ug/L	0.3	GW-4 GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
1,1,2-Trichloroethane	79-00-5	Ť	ug/L	0.9	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
1,1,2-Trichlorotrifluoroethane	76-13-1	Ť	ug/L	167	GW-4						_
1,1-Dichloroethane	75-34-3	T	ug/L	11	GW-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	_
1,1-Dichloroethene	75-35-4	Т	ug/L	130	GW-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	-
1,1-Dichloropropene	563-58-6	Ţ	ug/L		011:	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
1,2,3-Trichlorobenzene	87-61-6	T	ug/L	7260	GW-3	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	-
1,2,3-Trichloropropane	96-18-4	Ţ	ug/L	6.77	GW-3	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	-
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	120-82-1 95-63-6	T	ug/L ug/L	0.964 239	GW-3 GW-4	< 2 U < 2 U	< 0.21 U < 2 U	< 2 U < 2 U	< 0.21 U < 2 U	< 2 U < 2 U	
1,2,4-11methylbenzene 1,2-Dibromo-3-chloropropane	96-12-8	Ť	ug/L ug/L	0.0423	GW-4	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	106-93-4	 	ug/L ug/L	0.0423	GW-4	< 2 U	< 2 U	<2U	< 2 U	< 2 U	
1,2-Dichlorobenzene	95-50-1	i i	ug/L	4.48	GW-3	< 0.5 U	< 0.21 U	< 0.5 U	< 0.21 U	< 0.5 U	< 0.2 U
1,2-Dichloroethane (EDC)	107-06-2	Ť	ug/L	3.48	GW-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
1,2-Dichloropropane	78-87-5	Ť	ug/L	3.1	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
1,3,5-Trimethylbenzene	108-67-8	T	ug/L	167	GW-4	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	-
1,3-Dichlorobenzene	541-73-1	Т	ug/L	2	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	-
1,3-Dichloropropane	142-28-9	T	ug/L	2460000	GW-3	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
1,4-Dichloro-2-Butene	110-57-6	T	ug/L			-					
1,4-Dichlorobenzene	106-46-7	T	ug/L	4.96	GW-4	< 0.5 U	< 0.21 U	< 0.5 U	< 0.21 U	< 0.5 U	
2,2-Dichloropropane 2-Butanone	594-20-7 78-93-3	<u> </u>	ug/L ug/L	1710000	GW-4	< 0.5 U < 20 U	< 0.5 U < 20 U	< 0.5 U < 20 U	< 0.5 U < 20 U	< 0.5 U < 20 U	 < 5 U
2-Chlorotoluene	95-49-8	Ť	ug/L	618000	GW-3	< 2 l J	< 2 U	< 2 U	< 2 U	< 2 U	
2-Hexanone	591-78-6	÷ ÷	ug/L	7260	GW-4	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	
2-Pentanone	107-87-9	İ	ug/L	7200	011					-	-
4-Chlorotoluene	106-43-4	T	ug/L			< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	-
4-Methyl-2-pentanone	108-10-1	Т	ug/L	466000	GW-4	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	=
Acetone	67-64-1	T	ug/L	338000000	GW-3	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	-
Acrolein	107-02-8	Ī	ug/L	1.1	GW-2	-	-		-	-	-
Acrylonitrile	107-13-1 71-43-2	T	ug/L	0.028	GW-2 GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.2 U
Benzene Bromobenzene	/1-43-2 108-86-1		ug/L ug/L	1.6 633	GW-2 GW-4	< 0.5 U < 2 U	< 0.5 U < 2 U	< 0.5 U < 2 U	< 0.5 U	< 0.5 U	< 0.2 U
Bromochloromethane	74-97-5	<u> </u>	ug/L ug/L	033	Gvv-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	+
Bromodichloromethane	75-27-4	<u> </u>	ug/L ug/L	1.37	GW-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	+ =
Bromoform	75-25-2	Ť	ug/L	12	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Bromomethane	74-83-9	Ť	ug/L	10.9	GW-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Carbon Disulfide	75-15-0	Т	ug/L	836	GW-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.2 U
Carbon Tetrachloride	56-23-5	T	ug/L	0.35	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Chlorobenzene	108-90-7	Ţ	ug/L	200	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	-
Chloroethane	75-00-3	Ţ	ug/L	14700	GW-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	-
Chloroform	67-66-3	T	ug/L	1.18	GW-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	-
Chloromethane cis-1,2-Dichloroethene (cDCE)	74-87-3 156-59-2	+	ug/L ug/L	153 359000	GW-4 GW-3	0.82 < 0.5 U	< 0.5 U < 0.5 U	0.36 T < 0.5 U	0.46 T < 0.5 U	0.9 < 0.5 U	
cis-1,3-Dichloropropene	10061-01-5	+	ug/L ug/L	1.2	GW-3 GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Dibromochloromethane	124-48-1	Ť	ug/L	2.2	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	
Dibromomethane	74-95-3	Ť	ug/L	86.4	GW-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	_
Dichlorodifluoromethane	75-71-8	Ť	ug/L	4.24	GW-4	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	-
Ethylbenzene	100-41-4	T	ug/L	21	GW-2	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.2 U
Isopropylbenzene	98-82-8	Ť	ug/L	907	GW-4	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	
V. I	179601-23-1	T	ug/L	1		< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	-
m,p-Xylenes											
Methyl tert-butyl ether (MTBE) Methylene Chloride	1634-04-4 75-09-2	T T	ug/L ug/L	801 100	GW-4 GW-2	 < 2 U	 < 2 U	 < 2 U	 < 2 U	 < 2 U	

			Date Sample	SB-22 07/27/2011
<u> </u>		SPM_RI_GW_SLS 2022.02 action le	Screening Level	SB22-WATER-072711
Fraction	Unit	_2022.02_action_le	Source	
Т	ug/L	0.126	GW-2	< 0.005 U
Т	ug/L	0.02	GW-2	< 0.01 U
T	ug/L	0.001	GW-2	-
Ţ	ug/L	0.05.05		-
T	ug/L ug/L	2.2E-05 3.2E-05	GW-2 GW-2	< 0.05 U
Ť	ug/L	0.000103	GW-3	< 0.005 U
Т	ug/L			-
Ţ	ug/L	800	GW-2	< 100 U
T	ug/L	500	GW-2	< 270 U
Ť	ug/L ug/L	500 500	GW-2 GW-2	< 430 U < 430 U
-	ug/L	300	GW-2	V 430 0
Т	ug/L	7.11	GW-4	-
T	ug/L	5450	GW-4	-
T	ug/L	0.3	GW-2	-
T T	ug/L	0.9	GW-2	-
T T	ug/L ug/L	167 11	GW-4 GW-4	-
Ť	ug/L	130	GW-4	-
Ť	ug/L	100	5.17	-
T	ug/L	7260	GW-3	-
T	ug/L	6.77	GW-3	-
T	ug/L	0.964	GW-3	-
T	ug/L	239	GW-4	-
+	ug/L ug/L	0.0423 0.296	GW-4 GW-4	-
†	ug/L	4.48	GW-3	< 0.2 U
Т	ug/L	3.48	GW-4	-
Т	ug/L	3.1	GW-2	-
T	ug/L	167	GW-4	-
T	ug/L	2 2460000	GW-2 GW-3	
†	ug/L ug/L	2460000	GVV-3	-
Ť	ug/L	4.96	GW-4	_
Ť	ug/L	1.00	011 1	-
Т	ug/L	1710000	GW-4	< 5 U
T	ug/L	618000	GW-3	-
T	ug/L	7260	GW-4	-
† †	ug/L ug/L			-
Ť	ug/L	466000	GW-4	
Ť	ug/L	338000000	GW-3	_
Т	ug/L	1.1	GW-2	-
T	ug/L	0.028	GW-2	-
T	ug/L ug/L	1.6 633	GW-2 GW-4	< 0.2 U
+ +	ug/L ug/L	033	GVV-4	-
Ť	ug/L	1.37	GW-4	-
Ť	ug/L	12	GW-2	_
T	ug/L	10.9	GW-4	-
T	ug/L	836	GW-4	< 0.2 U
T	ug/L	0.35	GW-2	-
T	ug/L	200 14700	GW-2 GW-4	-
<u> </u>	ug/L ug/L	1.18	GW-4	-
Ť	ug/L	153	GW-4	_
T	ug/L	359000	GW-3	-
Т	ug/L	1.2	GW-2	-
	ug/L			-
				-
· · · · · · · · · · · · · · · · · · ·				< 0.2 U
Ť				~ U.Z U
Ť				-
Т	ug/L	801	GW-4	-
T	ug/L	100	GW-2	-
	T T	T ug/L T ug/L T ug/L T ug/L T ug/L T ug/L T ug/L T ug/L T ug/L T ug/L	T ug/L 86.4 T ug/L 4.24 T ug/L 21 T ug/L 907 T ug/L 907 T ug/L 907 T ug/L 801 T ug/L 100	T ug/L 86.4 GW-4 T ug/L 4.24 GW-4 T ug/L 21 GW-2 T ug/L 907 GW-4 T ug/L 907 GW-4 T ug/L 801 GW-4 T ug/L 801 GW-4 T ug/L 100 GW-2

Project No. 190293, South Park Marina, Seattle, Washington

					Location Date Sample	MW-04 03/31/2021	MW-04 05/27/2021	MW-05 03/31/2021	MW-05 05/27/2021	MW-06 03/29/2021	MW-07 03/29/2021
					Sample	MW-04-210331	MW-04-210527	MW-05-210331	MW-05-210527	MW-06-210329	MW-07-210329
Analyte	CAS RN	Fraction	Unit	SPM_RI_GW_SLS _2022.02_action_le vel	Screening Level Source						
n-Butvlbenzene	104-51-8	T	ua/L	424000	GW-3	< 0.2 U		0.65		< 0.2 U	< 0.2 U
n-Propylbenzene	103-65-1	Ť	ug/L	2270	GW-4	< 0.2 U		2.63		< 0.2 U	< 0.2 U
o-Xvlene	95-47-6	Ť	ua/L	ZE/V	011 1	< 0.2 U		1.5		< 0.2 U	< 0.2 U
p-Isopropyltoluene	99-87-6	Ť	ua/L			< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
sec-Butvibenzene	135-98-8	T	ua/L	940000	GW-3	< 0.2 U		0.68		< 0.2 U	< 0.2 U
Styrene	100-42-5	Ť	ua/L	8170	GW-4	< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
tert-Butylbenzene	98-06-6	T	ug/L	1240000	GW-3	< 0.2 U		0.09 J	-	< 0.2 U	< 0.2 U
Tetrachloroethene (PCE)	127-18-4	Т	ua/L	2.9	GW-2	1.3		0.1 J		2.99	< 0.2 U
Toluene	108-88-3	T	ug/L	102	GW-2	< 0.2 U		0.36	-	< 0.2 U	< 0.2 U
Total Xylenes	1330-20-7	T	ug/L	106	GW-2	< 0.6 U		2.72	-	< 0.6 U	< 0.6 U
trans-1,2-Dichloroethene	156-60-5	T	ug/L	76.8	GW-4	< 0.2 U		< 0.2 U		< 0.2 U	< 0.2 U
trans-1,3-Dichloropropene	10061-02-6	T	ug/L	1.2	GW-2	< 0.2 U		< 0.2 U	-	< 0.2 U	< 0.2 U
Trichloroethene (TCE)	79-01-6	T	ug/L	0.7	GW-2	0.11 J		< 0.2 U	_	0.09 J	< 0.2 U
Trichlorofluoromethane	75-69-4	T	ug/L	119	GW-4	< 0.2 U		< 0.2 U	-	< 0.2 U	< 0.2 U
Vinyl Acetate	108-05-4	T	ug/L	7810	GW-4	< 0.2 U		< 0.2 U	_	< 0.2 U	< 0.2 U
Vinyl Chloride	75-01-4	T	ug/L	0.18	GW-2	< 0.2 U		0.35	-	< 0.2 U	< 0.2 U
Conventionals											
Total Organic Carbon	TOC	T	ug/L			11480		14240		2040	_
Total Suspended Solids	TSS	T	ug/L			< 1000 U		17000		< 1000 U	-
Field Parameters											
Temperature	Temp	Т	deg C			11.4		11.6	-	9.7	10.6
Specific Conductance	Cond	Т	uS/cm			117.5		258.9		109.2	1575
Dissolved Oxygen	DO	T	ug/L		·	330		510		5270	7530
pH	pH	T	pH units		·	6.23	-	5.84	_	6.34	7.75
Oxidation Reduction Potential	ORP	T	mV			94		72.4	-	73.3	92.4
Turbidity	Turb	Т	NTU			2.43	-	5.38	-	3.17	106
	ı	l		1			I	I			143 H. D

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

D - Dissolved Fraction (filtered) sample result

T - Total Fraction (unfiltered) sample result

cPAHs = carcinogenic polycyclic aromatic hydrocarbons HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: GW-2 GW-3 GW-4 Protect Surface Water Protect Sediment Protect Indoor Air GW-5 Natural Background

Project No. 190293, South Park Marina, Seattle, Washington

					Location Date	MW-08 03/29/2021	MW-08 05/27/2021	MW-09 03/29/2021	MW-10 03/30/2021	MW-11 03/30/2021	MW-12 03/30/2021
					Sample	MW-08-210329	MW-08-210527	MW-09-210329	MW-10-210330	MW-11-210330	MW-12-210330
				SPM RI GW SLS		WIVV-00-2 10323	WW-00-210327	WW-03-210329	WW-10-210330	WW-11-210330	WW-12-210330
				2022.02 action le	Screening Level						
Analyte	CAS RN	Fraction	Unit	vel	Source						
n-Butylbenzene	104-51-8	T	ug/L	424000	GW-3	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
n-Propylbenzene	103-65-1	T	ug/L	2270	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
o-Xylene	95-47-6	T	ug/L			< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
p-Isopropyltoluene	99-87-6	T	ug/L			< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
sec-Butylbenzene	135-98-8	T	ug/L	940000	GW-3	< 0.2 U	-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Styrene	100-42-5	T	ug/L	8170	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
tert-Butylbenzene	98-06-6	Т	ug/L	1240000	GW-3	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Tetrachloroethene (PCE)	127-18-4	T	ug/L	2.9	GW-2	0.2		28.1	0.09 J	< 0.2 U	< 0.2 U
Toluene	108-88-3	T	ug/L	102	GW-2	0.19 J		0.12 J	< 0.2 U	< 0.2 U	< 0.2 U
Total Xylenes	1330-20-7	T	ug/L	106	GW-2	< 0.6 U		< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
trans-1,2-Dichloroethene	156-60-5	T	ug/L	76.8	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
trans-1,3-Dichloropropene	10061-02-6	T	ug/L	1.2	GW-2	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Trichloroethene (TCE)	79-01-6	Т	ug/L	0.7	GW-2	< 0.2 U		15.2	< 0.2 U	< 0.2 U	< 0.2 U
Trichlorofluoromethane	75-69-4	T	ug/L	119	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Vinyl Acetate	108-05-4	T	ug/L	7810	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Vinyl Chloride	75-01-4	Т	ug/L	0.18	GW-2	< 0.2 U		< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Conventionals											
Total Organic Carbon	TOC	T	ug/L			-		_		1290	6840
Total Suspended Solids	TSS	Т	ug/L			-		-		6000	4000
Field Parameters											
Temperature	Temp	T	deg C			7.7		7.2	6.9	7.6	12.6
Specific Conductance	Cond	T	uS/cm			2166		1182	1642	2658	938
Dissolved Oxygen	DO	T	ug/L		·	10300		8730	10510	9380	1780
pH	pH	T	pH units			8		7.59	7.54	7.17	6.37
Oxidation Reduction Potential	ORP	T	mV			103.3		119.3	122.9	144.9	115.9
Turbidity	Turb	T	NTU			2.38		56.4	93.6	9.98	1.87

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

D - Dissolved Fraction (filtered) sample result T - Total Fraction (unfiltered) sample result

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: GW-2 GW-3 GW-4 Protect Surface Water Protect Sediment Protect Indoor Air GW-5 Natural Background

Project No. 190293, South Park Marina, Seattle, Washington

					Location Date Sample	MW-13 03/31/2021	MW-13 05/27/2021	MW-14 03/31/2021	MW-15 03/30/2021	MW-15 05/27/2021	MW-01 10/09/2007
					'	MW-13-210331	MW-13-210527	MW-14-210331	MW-15-210330	MW-15-210527	MW-1-100907
Analyte	CAS RN	Fraction	Unit	SPM_RI_GW_SLS _2022.02_action_le vel	Screening Level Source						
n-Butvlbenzene	104-51-8	Т	ua/L	424000	GW-3	< 0.2 U		< 0.2 U	< 0.2 U	-	< 2 U
n-Propylbenzene	103-65-1	T	ua/L	2270	GW-4	< 0.2 U		< 0.2 U	< 0.2 U		< 2 U
o-Xvlene	95-47-6	T	ua/L			< 0.2 U		< 0.2 U	< 0.2 U	-	< 0.5 U
p-Isopropyltoluene	99-87-6	T	ug/L			< 0.2 U		< 0.2 U	< 0.2 U	-	< 2 U
sec-Butylbenzene	135-98-8	T	ua/L	940000	GW-3	< 0.2 U		< 0.2 U	< 0.2 U		< 2 U
Styrene	100-42-5	T	ug/L	8170	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U	-	< 0.5 U
tert-Butylbenzene	98-06-6	T	ug/L	1240000	GW-3	< 0.2 U		< 0.2 U	< 0.2 U	-	< 2 U
Tetrachloroethene (PCE)	127-18-4	T	ua/L	2.9	GW-2	4640		0.32	< 0.2 U	-	< 0.5 U
Toluene	108-88-3	T	ua/L	102	GW-2	0.11 J		< 0.2 U	< 0.2 U	-	< 0.5 U
Total Xylenes	1330-20-7	T	ug/L	106	GW-2	< 0.6 U		< 0.6 U	< 0.6 U	-	< 0.5 U
trans-1,2-Dichloroethene	156-60-5	T	ug/L	76.8	GW-4	4.99		< 0.2 U	< 0.2 U	-	< 0.5 U
trans-1,3-Dichloropropene	10061-02-6	T	ug/L	1.2	GW-2	< 0.2 U		< 0.2 U	< 0.2 U	-	< 0.5 U
Trichloroethene (TCE)	79-01-6	T	ug/L	0.7	GW-2	259		< 0.2 U	< 0.2 U	-	< 0.5 U
Trichlorofluoromethane	75-69-4	T	ug/L	119	GW-4	< 0.2 U	-	< 0.2 U	< 0.2 U	-	< 0.5 U
Vinyl Acetate	108-05-4	T	ug/L	7810	GW-4	< 0.2 U		< 0.2 U	< 0.2 U	-	-
Vinyl Chloride	75-01-4	T	ug/L	0.18	GW-2	0.53		< 0.2 U	< 0.2 U	-	< 0.5 U
Conventionals											
Total Organic Carbon	TOC	T	ug/L			4830	_	890	2190	-	-
Total Suspended Solids	TSS	T	ug/L			4000		< 1000 U	6000	-	-
Field Parameters	•										
Temperature	Temp	T	deg C			14.6	_	11.6	11.8	-	-
Specific Conductance	Cond	Т	uS/cm			481.5	-	122.3	182.5	1	1
Dissolved Oxygen	DO	T	ug/L			1210	-	5390	630	1	-
pH	pH	T	pH units			6.41	_	6.03	6.88	-	-
Oxidation Reduction Potential	ORP	T	mV			112.3		67.2	57.9	-	-
Turbidity	Turb	Т	NTU			6.41		11.8	11.8		-

Bold - detected

Blue Shaded - Detected result exceeded screening level

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D - Dissolved Fraction (filtered) sample result

T - Total Fraction (unfiltered) sample result

cPAHs = carcinogenic polycyclic aromatic hydrocarbons HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components ND = 0 - calculated using 0 for non-detected components

Screening Level Codes:

GW-2	Protect Surface Water
GW-3	Protect Sediment
GW-4	Protect Indoor Air
GW-5	Natural Background

Project No. 190293, South Park Marina, Seattle, Washington

					Location Date Sample	MW-01 03/12/2008	MW-02 10/09/2007	MW-02 03/12/2008	MW-03 10/08/2007	MW-03 03/12/2008	SB-21 07/27/2011
					Gampic	MW-1-031208	MW-2-100907	MW-2-031208	MW-3-100807	MW-3-031208	SB21-WATER-072711
Analyte	CAS RN	Fraction	Unit	SPM_RI_GW_SLS _2022.02_action_le vel	Screening Level Source						
n-Butylbenzene	104-51-8	T	ug/L	424000	GW-3	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.2 U
n-Propylbenzene	103-65-1	T	ug/L	2270	GW-4	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	
o-Xylene	95-47-6	T	ug/L			< 0.5 U					
p-Isopropyltoluene	99-87-6	T	ug/L			< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	
sec-Butylbenzene	135-98-8	T	ug/L	940000	GW-3	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.2 U
Styrene	100-42-5	T	ug/L	8170	GW-4	< 0.5 U					
tert-Butylbenzene	98-06-6	T	ug/L	1240000	GW-3	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	-
Tetrachloroethene (PCE)	127-18-4	T	ug/L	2.9	GW-2	< 0.5 U	< 0.5 U	0.2 T	0.16 T	0.18 T	< 0.2 U
Toluene	108-88-3	T	ug/L	102	GW-2	< 0.5 U	0.11 T	< 0.5 U	0.12 T	< 0.5 U	< 1 U
Total Xylenes	1330-20-7	T	ug/L	106	GW-2	< 0.5 U	< 0.6 U				
trans-1,2-Dichloroethene	156-60-5	T	ug/L	76.8	GW-4	< 0.5 U	-				
trans-1,3-Dichloropropene	10061-02-6	T	ug/L	1.2	GW-2	< 0.5 U					
Trichloroethene (TCE)	79-01-6	T	ug/L	0.7	GW-2	< 0.5 U	-				
Trichlorofluoromethane	75-69-4	Т	ug/L	119	GW-4	< 0.5 U					
Vinyl Acetate	108-05-4	T	ug/L	7810	GW-4	-	-		-	-	-
Vinyl Chloride	75-01-4	T	ug/L	0.18	GW-2	< 0.5 U					
Conventionals											
Total Organic Carbon	TOC	T	ug/L			-		_	_	ı	_
Total Suspended Solids	TSS	T	ug/L			-			-	-	-
Field Parameters											
Temperature	Temp	T	deg C			-		_	_	ı	_
Specific Conductance	Cond	T	uS/cm					-	-	1	_
Dissolved Oxygen	DO	T	ug/L					-	-	-	-
pH	pH	T	pH units			-			-	-	-
Oxidation Reduction Potential	ORP	T	mV					-	-	1	-
Turbidity	Turb	Т	NTU			-					

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cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH

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ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components ND = 0 - calculated using 0 for non-detected components

Screening Level Codes: GW-2 GW-3 GW-4 Protect Surface Water Protect Sediment Protect Indoor Air GW-5 Natural Background

Project No. 190293, South Park Marina, Seattle, Washington

					Location Date	SB-22 07/27/2011
					Sample	
						SB22-WATER-072711
				SPM RI GW SLS		
				2022.02 action le	Screening Level	
Analyte	CAS RN	Fraction	Unit	vel	Source	
n-Butylbenzene	104-51-8	T	ug/L	424000	GW-3	< 0.2 U
n-Propylbenzene	103-65-1	T	ua/L	2270	GW-4	
o-Xvlene	95-47-6	T	ua/L			
p-Isopropyltoluene	99-87-6	T	ug/L			_
sec-Butvlbenzene	135-98-8	T	ua/L	940000	GW-3	< 0.2 U
Styrene	100-42-5	T	ua/L	8170	GW-4	-
tert-Butylbenzene	98-06-6	T	ug/L	1240000	GW-3	_
Tetrachloroethene (PCE)	127-18-4	T	ua/L	2.9	GW-2	< 0.2 U
Toluene	108-88-3	T	ua/L	102	GW-2	<1U
Total Xvlenes	1330-20-7	T	ua/L	106	GW-2	< 0.6 U
trans-1,2-Dichloroethene	156-60-5	T	ug/L	76.8	GW-4	-
trans-1.3-Dichloropropene	10061-02-6	T	ua/L	1.2	GW-2	
Trichloroethene (TCE)	79-01-6	T	ug/L	0.7	GW-2	_
Trichlorofluoromethane	75-69-4	T	ug/L	119	GW-4	_
Vinvl Acetate	108-05-4	T	ua/L	7810	GW-4	
Vinyl Chloride	75-01-4	T	ug/L	0.18	GW-2	_
Conventionals						
Total Organic Carbon	TOC	T	ug/L			_
Total Suspended Solids	TSS	T	ug/L			_
Field Parameters						
Temperature	Temp	T	dea C			-
Specific Conductance	Cond	T	uS/cm			_
Dissolved Oxygen	DO	T	ug/L			1
pH	pH	T	pH units			-
Oxidation Reduction Potential	ORP	T	mV			_
Turbidity	Turb	Т	NTU			-

Bold - detected Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

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D - Dissolved Fraction (filtered) sample result

T - Total Fraction (unfiltered) sample result

cPAHs = carcinogenic polycyclic aromatic hydrocarbons HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

TEQ = Toxic Equivalency "--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components ND = 0 - calculated using 0 for non-detected components

Screening Level Codes:

GW-2	Protect Surface Water
GW-3	Protect Sediment
GW-4	Protect Indoor Air
GW-5	Natural Background

					Location Date Sample	CB-01 09/19/2017 SPM-CB-01-SW-20170919	CB-02 06/08/2017 SPM-CB-02-SW-20170608	CB-02 09/19/2017 SPM-CB-02-SW-20170919	CB-02 03/05/2021 CB-02-SW-210305	CB-02 04/24/2021 SPM-CB-02-SW-20210424
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Metals	CAC_IIIV	Traction	Offic	_2022.02	Ocidenting Level Godice					
Antimony	7440-36-0	Т	ug/L	90	GW-2		< 5.6 U			-
rsenic	7440-38-2	D	ug/L	0.14	GW-2				13.2 J	
rsenic	7440-38-2	T	ug/L	0.14	GW-2		3.9		8.81 J	_
eryllium	7440-41-7	Ť	ug/L	75.6	GW-2		< 11 U			-
admium	7440-43-9	D	ug/L	7.9	GW-2				0.138 J	-
admium	7440-43-9	T	ug/L	7.9	GW-2		< 4.4 U		0.254	<u>-</u>
nromium	7440-43-9	D	ug/L	27.4	GW-2	 			< 0.5 UJ	
	7440-47-3	T	ug/L	27.4	GW-2		 < 11 U		0.864	
nromium		D		50			×110 			160
pper	7440-50-8	T	ug/L		SPM Boatyard Permit		130		35.1 J	
pper	7440-50-8		ug/L	50	SPM Boatyard Permit				85.7	170
ad	7439-92-1	D T	ug/L	5.6	GW-2				0.198 J	1.6
ad	7439-92-1	T	ug/L	5.6	GW-2		5.7		4.8	3.9
ercury	7439-97-6	D	ug/L	0.025	GW-2				< 0.02 UJ	-
ercury	7439-97-6	Ţ	ug/L	0.025	GW-2		< 0.5 U		< 0.02 U	
ckel	7440-02-0	D	ug/L	8.2	GW-2				0.681 J	
ckel	7440-02-0	Т	ug/L	8.2	GW-2		< 22 U		1.16	-
lenium	7782-49-2	T	ug/L	71	GW-2		< 5.6 U			
ver	7440-22-4	Т	ug/L	1.9	GW-2		< 11 U			-
allium	7440-28-0	T	ug/L	0.0619	GW-2		< 5.6 U			-
C	7440-66-6	D	ug/L	85	SPM Boatyard Permit	-			404 J	1800
C	7440-66-6	T	ug/L	85	SPM Boatyard Permit		1800		528	1800
tyl Tin lons				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	= = = = , = = = = = = = = = = = = =				7-20	,,,,,
putyltin lon	14488-53-0	Т	ug/L		I				< 0.0077 U	
nobutyltin	78763-54-9	 	ug/L		+				0.0117 J	
	1461-25-2	+ +			+	 			0.0117 3	
trabutyltin	36643-28-4	T	ug/L	0.0074	CW 2				 < 0.0052 U	
butyltin lon	30043-28-4		ug/L	0.0074	GW-2				< 0.0052 U	
lychlorinated Biphenyl Aroclors	100-1115							.0.01011	1	
oclor 1016	12674-11-2	T	ug/L	1		< 0.047 U	< 0.047 U	< 0.048 U	< 0.01 U	_
oclor 1221	11104-28-2	Т	ug/L			< 0.047 U	< 0.047 U	< 0.048 U	< 0.01 U	
oclor 1232	11141-16-5	T	ug/L			< 0.047 U	< 0.047 U	< 0.048 U	< 0.01 U	
oclor 1242	53469-21-9	Т	ug/L			< 0.047 U	< 0.047 U	< 0.048 U	< 0.01 U	
oclor 1248	12672-29-6	T	ug/L			< 0.047 U	< 0.047 U	< 0.048 U	< 0.01 U	_
oclor 1254	11097-69-1	Т	ug/L			< 0.047 U	< 0.047 U	< 0.048 U	< 0.01 U	
pclor 1260	11096-82-5	T	ug/L			< 0.047 U	< 0.047 U	< 0.048 U	< 0.01 U	
oclor 1262	37324-23-5	Ť	ug/L						< 0.01 U	
oclor 1268	11100-14-4	Ť	ug/L						< 0.01 U	-
tal PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	Ť	ug/L	7E-06	GW-2	< 0.165 UJ	< 0.165 UJ	< 0.168 UJ	< 0.01 U	
otal PCBs (Sum of Aroclors)	T-PCBs 1/20	† †	ug/L	7E-06	GW-2	< 0.103 03 < 0.047 U	< 0.047 U	< 0.108 U	< 0.01 U	
	I-PCBS		ug/L	7E-06	GW-2	< 0.047 0	< 0.047 0	< 0.046 U	< 0.01 0	
olychlorinated Biphenyl Congeners										
otal PCB Congeners	T-PCBCong	Т	ug/L	7E-06	GW-2	0.00417	0.00682	0.0038		
otal PCB TEQ (ND = 0)	PCB-TEQ-0U	Т	ug/L	4.43E-09	GW-2	0.00000509 J	0.000000844 J	0.000000294 J		
otal PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	T	ug/L	4.43E-09	GW-2	0.000000584 J	0.000000844 J	0.000000301 J		
tal Monochlorobiphenyls	MONOPCB	T	ug/L			0.0000408	0.000038	0.00003		
tal Dichlorobiphenyls	DIPCB	Т	ug/L			0.0000905 J	0.00023	0.000698		-
tal Trichlorobiphenyls	TRIPCB	Т	ug/L			0.000147	0.000161	0.000108 J		
tal Tetrachlorobiphenyls			ug/L			0.00032 J	0.000389	0.000219		
tal Pentachlorobiphenyls		T								
	TETRAPCB	T	ua/l	1						
	TETRAPCB PENTAPCB	T	ug/L			0.00086 J	0.00139	0.000637	-	
tal Hexachlorobiphenyls	TETRAPCB PENTAPCB HEXAPCB	Ť	ug/L			0.00138	0.00139 0.00226	0.000637 0.00126 J		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls	TETRAPCB PENTAPCB HEXAPCB HEPTAPCB	T	ug/L ug/L			0.00138 0.00109 J	0.00139 0.00226 0.00191	0.000637 0.00126 J 0.00116		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls	TETRAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB	T	ug/L ug/L ug/L			0.00138 0.00109 J 0.000239 J	0.00139 0.00226 0.00191 0.000438	0.000637 0.00126 J 0.00116 0.000314		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Nonachlorobiphenyls	TETRAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB	T T T	ug/L ug/L ug/L ug/L			0.00138 0.00109 J 0.000239 J 0.0000295	0.00139 0.00226 0.00191 0.000438 0.0000335	0.000637 0.00126 J 0.00116 0.000314 0.0000228		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Nonachlorobiphenyls tal Decachlorobiphenyls	TETRAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB	T	ug/L ug/L ug/L			0.00138 0.00109 J 0.000239 J	0.00139 0.00226 0.00191 0.000438	0.000637 0.00126 J 0.00116 0.000314		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Nonachlorobiphenyls tal Nonachlorobiphenyls tal Decachlorobiphenyls oxins/Furans	TETRAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB	T T T T	ug/L ug/L ug/L ug/L ug/L			0.00138 0.00109 J 0.000239 J 0.0000295	0.00139 0.00226 0.00191 0.000438 0.0000335	0.000637 0.00126 J 0.00116 0.000314 0.0000228		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Nonachlorobiphenyls tal Nonachlorobiphenyls tal Decachlorobiphenyls oxins/Furans	TETRAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB	T T T	ug/L ug/L ug/L ug/L			0.00138 0.00109 J 0.000239 J 0.0000295	0.00139 0.00226 0.00191 0.000438 0.0000335	0.000637 0.00126 J 0.00116 0.000314 0.0000228		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Nonachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls oxins/Furans tal CDD TEQ (ND = 1/2 RDL) tal CDF TEQ (ND = 1/2 RDL)	TETRAPCB PENTAPCB HEXAPCB HEYAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L			0.00138 0.00109 J 0.000239 J 0.0000295 0.00000318	0.00139 0.00226 0.00191 0.000438 0.0000335 0.00000343	0.000637 0.00126 J 0.00116 0.000314 0.0000228 0.00000341		
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al Hexachlorobiphenyls al Heptachlorobiphenyls al Octachlorobiphenyls al Nonachlorobiphenyls al Decachlorobiphenyls al Decachlorobiphenyls al Decachlorobiphenyls bixins/Furans al CDD TEQ (ND = 1/2 RDL) al CDF TEQ (ND = 1/2 RDL) al Dioxin/Furan TEQ (ND = 0) al Dioxin/Furan TEQ (ND = 1/2 RDL) al Dioxin/Furan TEQ (ND = 1/2 RDL) al Dioxin/Furan TEQ (ND = 1/2 RDL) al Dioxin/Furan TEQ (ND = 1/2 RDL) bixin/Furan TEQ (ND = 1/2 RDL) bixin/Furan TEQ (ND = 1/2 RDL)	TETRAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08	GW-2	0.00138 0.00109 J 0.000239 J 0.0000295 0.00000318	0.00139 0.00226 0.00191 0.000438 0.0000335 0.0000343	0.000637 0.00126 J 0.00116 0.000314 0.0000228 0.00000341		
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al Hexachlorobiphenyls al Heptachlorobiphenyls al Octachlorobiphenyls al Nonachlorobiphenyls al Nonachlorobiphenyls al Decachlorobiphenyls by the strict of	TETRAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2	0.00138 0.00109 J 0.00239 J 0.000295 0.0000318	0.00139 0.00226 0.00191 0.000438 0.0000335 0.00000343	0.000637 0.00126 J 0.00116 0.000314 0.0000228 0.00000341		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Nonachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal CDD TEQ (ND = 1/2 RDL) tal CDF TEQ (ND = 1/2 RDL) tal CDF TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 0) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL) tal Dioxin/Furan TEQ (ND = 1 X RDL)	TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/20 BF-TEQ-1/20 DF-TEQ-1/20 DF-TEQ-1/20 BF-TEQ-1/20 T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08	GW-2	0.00138 0.00109 J 0.00029 J 0.0000295 0.00000318	0.00139 0.00226 0.00191 0.000438 0.0000335 0.0000343	0.000637 0.00126 J 0.00116 0.000314 0.0000228 0.00000341			
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Nonachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal CDT EQ (ND = 1/2 RDL) tal CDF TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 0) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1/2 RDL)	TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1U 90-12-0 91-57-6 83-32-9 208-96-8	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2	0.00138 0.00109 J 0.000239 J 0.0000295 0.00000318	0.00139 0.00226 0.00191 0.000438 0.0000335 0.0000343	0.000637 0.00126 J 0.00116 0.000314 0.0000228 0.00000341		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Nonachlorobiphenyls tal Nonachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal DECACHLOROBIC tal CDD TEQ (ND = 1/2 RDL) tal CDD TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 0) tal Dioxin/Furan TEQ (ND = 1/2 RDL)	TETRAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2	0.00138 0.00109 J 0.000239 J 0.0000295 0.00000318	0.00139 0.00226 0.00191 0.000438 0.0000335 0.0000343	0.000637 0.00126 J 0.00116 0.000314 0.0000228 0.00000341		
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tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Nonachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal CDF TEQ (ND = 1/2 RDL) tal CDF TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 0) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan	TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz_ik-fluor 207-08-9 218-01-9	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.00016 0.016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	0.00138 0.00109 J 0.000239 J 0.0000295 0.00000318	0.00139 0.00226 0.00191 0.000438 0.0000335 0.0000335 0.0000343	0.000637 0.00126 J 0.00116 0.000314 0.0000228 0.00000341		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal CDD TEQ (ND = 1/2 RDL) tal CDF TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 10) tal Dioxin/Furan TEQ (ND = 12 RDL) tal Dioxin/Furan TEQ (ND = 11 RDL) tal Dioxin/Furan TEQ (ND = 12 RDL) tal Dioxin/Furan TEQ (ND = 10 RDL) tal	TETRAPCB PENTAPCB HENTAPCB HEXAPCB HEYAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U SP-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U SP-TEQ-1/2U DF-TEQ-1/2U SP-TEQ-1/2U SP	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	0.00138 0.00109 J 0.000239 J 0.0000295 0.00000318	0.00139 0.00226 0.00191 0.000438 0.0000335 0.0000335 0.0000343	0.000637 0.00126 J 0.00116 0.000314 0.000028 0.00000341		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal CDD TEQ (ND = 1/2 RDL) tal CDF TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 10) tal Dioxin/Furan TEQ (ND = 12 RDL) tal Dioxin/Furan TEQ (ND = 11 RDL) tal Dioxin/Furan TEQ (ND = 12 RDL) tal Dioxin/Furan TEQ (ND = 10 RDL) tal	TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.00016 0.016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	0.00138 0.00109 J 0.000239 J 0.0000295 0.00000318	0.00139 0.00226 0.00191 0.000438 0.0000335 0.0000335 0.0000343	0.000637 0.00126 J 0.00116 0.000314 0.0000228 0.00000341		
tal Hexachlorobiphenyls tal Heptachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Octachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal Decachlorobiphenyls tal CDD TEQ (ND = 1/2 RDL) tal CDD TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 0) tal Dioxin/Furan TEQ (ND = 1/2 RDL) tal Dioxin/Furan TEQ (ND = 1x RDL) tal D	TETRAPCB PENTAPCB HENTAPCB HEXAPCB HEYAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U SP-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U SP-TEQ-1/2U DF-TEQ-1/2U SP-TEQ-1/2U SP	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	0.00138 0.00109 J 0.0010239 J 0.0000295 0.00000318	0.00139 0.00226 0.00191 0.000438 0.0000335 0.0000335 0.0000343	0.000637 0.00126 J 0.00116 0.000314 0.000028 0.00000341		
ital Periachino Objinenyis ital Hexachlorobiphenyis ital Heptachlorobiphenyis ital Heptachlorobiphenyis ital Octachlorobiphenyis ital Octachlorobiphenyis ital Octachlorobiphenyis ital Decachlorobiphenyis oxins/Furans ital CDD TEQ (ND = 1/2 RDL) ital CDD TEQ (ND = 1/2 RDL) ital CDF TEQ (ND = 1/2 RDL) ital Dioxin/Furan TEQ (ND = 0) ital Dioxin/Furan TEQ (ND = 1/2 RDL) ital Dioxin/	TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U DF-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	0.00138 0.00109 J 0.0010239 J 0.0000295 0.00000318	0.00139 0.00226 0.00191 0.000438 0.0000335 0.0000335 0.0000343	0.000637 0.00126 J 0.00116 0.000314 0.000028 0.00000341		

					Location Date Sample	CB-02 05/27/2021 SPM-CB-02-SW-20210527	CB-02 05/27/2021 CB-02-SW-210527	CB-05 09/19/2017 SPM-CB-05-SW-20170919	CB-05 04/24/2021 SPM-CB-05-SW-20210424	CB-05 05/27/2021 SPM-CB-05-SW-20210527
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Metals	OAO_NN	Traction	Onit	_2022.02	Ocidenting Edver obtained					
Antimony	7440-36-0	T	ug/L	90	GW-2					
Arsenic Arsenic	7440-38-2 7440-38-2	D T	ug/L ug/L	0.14 0.14	GW-2 GW-2		2.37 3.08			
Beryllium	7440-41-7	Ť	ug/L	75.6	GW-2					
Cadmium	7440-43-9	D	ug/L	7.9	GW-2		0.796			
Cadmium Chromium	7440-43-9 7440-47-3	T D	ug/L ug/L	7.9 27.4	GW-2 GW-2	 	1.37 < 0.5 U			
Chromium	7440-47-3	Т	ug/L	27.4	GW-2		< 0.5 U			
Copper	7440-50-8	D T	ug/L	50	SPM Boatyard Permit	48	41.3		320	77
Copper Lead	7440-50-8 7439-92-1	D	ug/L ug/L	50 5.6	SPM Boatyard Permit GW-2	67 0.72	159 0,474		300 3.9	110
Lead	7439-92-1	Т	ug/L	5.6	GW-2	2.3	4.2		7.1	6
Mercury	7439-97-6	D T	ug/L	0.025	GW-2		0.00175			
Mercury Nickel	7439-97-6 7440-02-0	D	ug/L ug/L	0.025 8.2	GW-2 GW-2		0.00359 1.43			
Nickel	7440-02-0	Т	ug/L	8.2	GW-2		2.35 J			
Selenium	7782-49-2	T	ug/L	71	GW-2					
Silver Thallium	7440-22-4 7440-28-0	T	ug/L ug/L	1.9 0.0619	GW-2 GW-2					
Zinc	7440-66-6	D	ug/L	85	SPM Boatyard Permit	820	825		110	100
Zinc	7440-66-6	T	ug/L	85	SPM Boatyard Permit	860	1040		89	130
Butyl Tin lons Dibutyltin Ion	14488-53-0	Т	ug/L				< 0.0077 UJ			I
Monobutyltin	78763-54-9	T	ug/L				0.0112 J			
Tetrabutyltin	1461-25-2	Ţ	ug/L	0.007	0111.0		< 0.03 U			
Tributyltin Ion Polychlorinated Biphenyl Aroclors	36643-28-4	<u> </u>	ug/L	0.0074	GW-2		< 0.0052 UJ			
Aroclor 1016	12674-11-2	Т	ug/L				< 0.01 U	< 0.047 U		
Aroclor 1221	11104-28-2	T	ug/L				< 0.01 U	< 0.047 U		
Aroclor 1232 Aroclor 1242	11141-16-5 53469-21-9	T	ug/L ug/L				< 0.01 U < 0.01 U	< 0.047 U < 0.047 U		
Aroclor 1248	12672-29-6	Ť	ug/L ug/L			 	< 0.01 U	< 0.047 U		
Aroclor 1254	11097-69-1	T	ug/L				0.005 J	< 0.047 U		
Aroclor 1260 Aroclor 1262	11096-82-5 37324-23-5	T	ug/L			 	0.01 J < 0.01 U	< 0.047 U		
Aroclor 1268	11100-14-4	Ť	ug/L ug/L			 	< 0.01 U			
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	T	ug/L	7E-06	GW-2		0.0500 J	< 0.165 UJ		
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners	T-PCBs	<u> </u>	ug/L	7E-06	GW-2		0.0150 J	< 0.047 U		
Total PCB Congeners	T-PCBCong	Т	ug/L	7E-06	GW-2			0.0221		
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	T	ug/L	4.43E-09	GW-2			0.00000145		
Total PCB TEQ (ND = 1/2 RDL) Total Monochlorobiphenyls	PCB-TEQ-1/2U MONOPCB	T	ug/L ug/L	4.43E-09	GW-2			0.0000152 0.0000584		
Total Dichlorobiphenyls	DIPCB	Ť	ug/L					0.000192		
Total Trichlorobiphenyls	TRIPCB	T	ug/L					0.000271		
Total Tetrachlorobiphenyls Total Pentachlorobiphenyls	TETRAPCB PENTAPCB	T	ug/L ug/L					0.00171 0.00691		
Total Hexachlorobiphenyls	HEXAPCB	T	ug/L					0.00622		
Total Heptachlorobiphenyls	HEPTAPCB	Т	ug/L					0.00524		
Total Octachlorobiphenyls Total Nonachlorobiphenyls	OCTAPCB NONAPCB	T	ug/L ug/L		-			0.00145 0.0000679		
Total Decachlorobiphenyls	DECAPCB	Ť	ug/L ug/L					0.0000879		
Dioxins/Furans			•							
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U CDF TEQ-1/2U		ug/L		-					
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-1/20	T	ug/L ug/L	2.76E-08	GW-2					
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	Т	ug/L	2.76E-08	GW-2					
Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons	DF-TEQ-1U	Т	ug/L	2.76E-08	GW-2					
1-Methylnaphthalene	90-12-0	Т	ug/L		T		0.557			
2-Methylnaphthalene	91-57-6	T	ug/L				0.822			
Acenaphthene Acenaphthylene	83-32-9 208-96-8	T	ug/L	30	GW-2		0.032			
Anthracene	120-12-7	T	ug/L ug/L	100	GW-2		0.399 0.033			
Benzo(g,h,i)perylene	191-24-2	T	ug/L				0.051			
Fluoranthene	206-44-0	T	ug/L	6 10	GW-2		0.071			
Fluorene Naphthalene	86-73-7 91-20-3	T	ug/L ug/L	1.4	GW-2 GW-2		0.071 1.73			
Phenanthrene	85-01-8	Ť	ug/L	1.4			0.113			
	100.00.0	T	ug/L	8	GW-2		0.11			
Pyrene	129-00-0		ug/L	0.00016	GW-2 GW-2	 	0.012 0.012			
Benz(a)anthracene	56-55-3	+ +	ua/l	1 6F-05					i — — — — — — — — — — — — — — — — — — —	
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	56-55-3 50-32-8 205-99-2		ug/L ug/L	1.6E-05 0.00016	GW-2 GW-2	-	0.01			
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene	56-55-3 50-32-8 205-99-2 205-82-3	T T T	ug/L ug/L				0.01 0.003 J			
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(j,k)fluoranthene	56-55-3 50-32-8 205-99-2 205-82-3 Benz-jk-fluor	T T T	ug/L ug/L ug/L	0.00016	GW-2	 	0.01 0.003 J			
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(jk)fluoranthene Benzo(k)fluoranthene	56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9	T T T	ug/L ug/L ug/L ug/L	0.00016	GW-2		0.01 0.003 J 0.005 J			
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(j,k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene	56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3	T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L	0.00016 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2	 	0.01 0.003 J 0.005 J 0.021 < 0.01 UJ			
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(j,k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	0.00016 0.0016 0.016	GW-2 GW-2 GW-2		0.01 0.003 J 0.005 J 0.021 < 0.01 UJ 0.009 J			
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(j,k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene	56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3	T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L	0.00016 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2		0.01 0.003 J 0.005 J 0.021 < 0.01 UJ			

					Location Date Sample	CB-06 06/08/2017 SPM-CB-06-SW-20170608	CB-06 09/19/2017 SPM-CB-06-SW-20170919	CB-06 03/04/2021 CB-06-SW-210304	CB-06 04/24/2021 SPM-CB-06-SW-20210424	CB-06 05/27/2021 SPM-CB-06-SW-20210527
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Metals	5.15 <u>-</u> 1.11				corcoming zoror course					
Antimony	7440-36-0	Т	ug/L	90	GW-2	< 5.6 U			-	
Arsenic	7440-38-2	D	ug/L	0.14	GW-2			1.27 J		
Arsenic	7440-38-2	T	ug/L	0.14	GW-2	< 3.3 U		1.85	-	
Beryllium	7440-41-7	T	ug/L	75.6	GW-2	< 11 U				
Cadmium Cadmium	7440-43-9 7440-43-9	D T	ug/L ug/L	7.9 7.9	GW-2 GW-2	 < 4.4 U		0.131 J 0.237		
Chromium	7440-43-9	D	ug/L ug/L	27.4	GW-2 GW-2			< 0.5 UJ		
Chromium	7440-47-3	T	ug/L	27.4	GW-2	< 11 U		1.45	-	
Copper	7440-50-8	D	ug/L	50	SPM Boatyard Permit			33.5 J	87	46
Copper	7440-50-8	Т	ug/L	50	SPM Boatyard Permit	120		99	120	300
Lead	7439-92-1	D	ug/L	5.6	GW-2			0.128 J	1.1	0.55
Lead	7439-92-1	T	ug/L	5.6	GW-2	5.9		5.68	5.4	19
Mercury	7439-97-6	D	ug/L	0.025	GW-2			< 0.02 UJ		
Mercury	7439-97-6 7440-02-0	T D	ug/L	0.025 8.2	GW-2	< 0.5 U		0.013 J 0.845 J		
Nickel Nickel	7440-02-0	T	ug/L ug/L	8.2	GW-2 GW-2	 < 22 U		2.73		
Selenium	7782-49-2	 	ug/L	71	GW-2 GW-2	< 5.6 U		2.73		
Silver	7440-22-4	†	ug/L	1.9	GW-2	< 11 U				
Thallium	7440-28-0	T	ug/L	0.0619	GW-2	< 5.6 U			1	
Zinc	7440-66-6	D	ug/L	85	SPM Boatyard Permit			64.4 J	58	78
Zinc	7440-66-6	Т	ug/L	85	SPM Boatyard Permit	92		93.8	85	330
Butyl Tin lons										
Dibutyltin Ion	14488-53-0	T	ug/L					< 0.0077 U		
Monobutyltin Tetrologia disc	78763-54-9	T	ug/L	+	 			0.009 J		
Tetrabutyltin	1461-25-2		ug/L	0.0074	CW 2				-	
Tributyltin Ion Polychlorinated Biphenyl Aroclors	36643-28-4	<u> </u>	ug/L	0.0074	GW-2			0.0111		
Aroclor 1016	12674-11-2	Т	ug/L			< 0.047 U	< 0.048 U	< 0.01 U		
Aroclor 1221	11104-28-2	Ť	ug/L			< 0.047 U	< 0.048 U	< 0.01 U	-	
Aroclor 1232	11141-16-5	Т	ug/L			< 0.047 U	< 0.048 U	< 0.01 U	-	
Aroclor 1242	53469-21-9	Т	ug/L			< 0.047 U	< 0.048 U	< 0.01 U	-	
Aroclor 1248	12672-29-6	Т	ug/L			< 0.047 U	< 0.048 U	< 0.01 U		
Aroclor 1254	11097-69-1	T	ug/L			< 0.047 U	< 0.048 U	0.006 J	-	
Aroclor 1260	11096-82-5	T_	ug/L			< 0.047 U	< 0.048 U	0.011 J		
Aroclor 1262	37324-23-5	T	ug/L					< 0.01 U < 0.01 U		
Aroclor 1268 Total PCB Aroclors (ND=1/2 RL)	11100-14-4 T-PCBs1/2U	†	ug/L ug/L	7E-06	GW-2	 < 0.165 UJ	 < 0.168 UJ	0.010 0.0520 J		
Total PCBs (Sum of Aroclors)	T-PCBs 1/20	 	ug/L	7E-06	GW-2 GW-2	< 0.165 05 < 0.047 U	< 0.168 U	0.0520 J 0.017 J		
Polychlorinated Biphenyl Congeners	,	<u> </u>	ug/ L	, = 00	511.2	0.017	0.0100	0.011 0		
Total PCB Congeners	T-PCBCong	Т	ug/L	7E-06	GW-2	0.0574	0.0267		-	
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	Т	ug/L	4.43E-09	GW-2	0.0000116 J	0.00000242 J			
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	T	ug/L	4.43E-09	GW-2	0.0000116 J	0.00000280 J		-	
Total Monochlorobiphenyls	MONOPCB	T	ug/L			0.0000665	0.0000198			
Total Dichlorobiphenyls	DIPCB	T	ug/L			0.000581	0.000521			
Total Trichlorobiphenyls Total Tetrachlorobiphenyls	TRIPCB TETRAPCB	T	ug/L ug/L			0.000431 0.00387	0.000318 J 0.00192 J			
Total Pentachlorobiphenyls	PENTAPCB	Ť	ug/L			0.00387	0.001923 0.00999 J			
Total Hexachlorobiphenyls	HEXAPCB	Ť	ug/L			0.0208	0.00915			
Total Heptachlorobiphenyls	HEPTAPCB	Т	ug/L			0.00582	0.0038		-	
Total Octachlorobiphenyls	OCTAPCB	Т	ug/L			0.00101	0.000827		-	
Total Nonachlorobiphenyls	NONAPCB	Т	ug/L			0.000127	0.0000914			
Total Decachlorobiphenyls	DECAPCB	Т	ug/L		<u> </u>	0.0000123	0.000013			
Dioxins/Furans Total CDD TEO (ND = 1/2 PDL)	CDD TEO 4/011	Т т	11-11		1					1
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	T	ug/L		 					
Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-1/2U	T	ug/L ug/L	2.76E-08	GW-2					
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-00 DF-TEQ-1/2U	†	ug/L	2.76E-08	GW-2 GW-2					
Total Dioxin/Furan TEQ (ND = 1x RDL)	DF-TEQ-1U	Ť	ug/L	2.76E-08	GW-2				-	
Polycyclic Aromatic Hydrocarbons										
1-Methylnaphthalene	90-12-0	Т	ug/L			< 0.094 U		< 0.1 U		
2-Methylnaphthalene	91-57-6	T	ug/L			< 0.094 U		< 0.1 U		
Acenaphthene	83-32-9	T	ug/L	30	GW-2	< 0.094 U		< 0.1 U		
Acenaphthylene Anthracene	208-96-8	T	ug/L	100	GW-2	< 0.094 U < 0.094 U		< 0.1 U < 0.1 U		
	100 10 7		ug/L	100	Gvv-2	< 0.094 U 0.014		< 0.1 U		
Benzo(a h i)pervlene	120-12-7 191-24-2	Т	na/l				<u>. </u>			<u>-</u>
Benzo(g,h,i)perylene Fluoranthene	191-24-2	T	ug/L ug/L	6	GW-2	< 0.094 11		0.05 .I		
Fluoranthene			ug/L	6 10	GW-2 GW-2	< 0.094 U < 0.094 U		0.05 J < 0.1 U		
	191-24-2 206-44-0 86-73-7 91-20-3	Т				< 0.094 U < 0.094 U				
Fluoranthene Fluorene Naphthalene Phenanthrene	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8	T T T	ug/L ug/L ug/L ug/L	10	GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U		< 0.1 U < 0.1 U 0.03 J		
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0	T T T	ug/L ug/L ug/L ug/L ug/L	10 1.4 8	GW-2 GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U < 0.094 U		< 0.1 U < 0.1 U 0.03 J 0.05 J	 	
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3	T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L	10 1.4 8 0.00016	GW-2 GW-2 GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.0094 U		< 0.1 U < 0.1 U 0.03 J 0.05 J < 0.1 U	 	
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 1.4 8 0.00016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.0094 U < 0.0094 U		<0.1 U <0.1 U 0.03 J 0.05 J <0.1 U <0.1 U		
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 1.4 8 0.00016	GW-2 GW-2 GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.0094 U < 0.0094 U 0.015		<0.1 U <0.1 U <0.1 U 0.03 J 0.05 J <0.1 U <0.1 U <0.1 U		
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 1.4 8 0.00016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.0094 U < 0.0094 U < 0.0094 U		<0.1 U <0.1 U <0.1 U 0.03 J 0.05 J <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U		
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz_ik-fluor	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 1.4 8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.0094 U < 0.0094 U 0.015		<0.1 U <0.1 U 0.03 J 0.05 J <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U		
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j,k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 1.4 8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.0094 U < 0.0094 U < 0.0094 U 0.015 < 0.0094 U		<0.1 U <0.1 U 0.03 J 0.05 J <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U		
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz_ik-fluor	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 1.4 8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.0094 U < 0.0094 U < 0.0094 U < 0.0094 U		<0.1 U <0.1 U 0.03 J 0.05 J <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U		
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(l)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-od)pyrene	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 1.4 8 0.00016 1.6E-05 0.00016 0.0016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.0094 U < 0.0094 U < 0.0094 U - 0.0094 U - 0.015		<0.1 U <0.1 U <0.1 U 0.03 J 0.05 J <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U		
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(j)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(a)fluoranthene Benzo(a)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-jk-fluor 207-08-9 218-01-9 53-70-3 193-39-5 TOTBFA	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 1.4 8 0.00016 1.6E-05 0.00016 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.0094 U < 0.0094 U < 0.0094 U - 0.0094 U - 0.0094 U - 0.015		<0.1 U <0.1 U <0.1 U 0.03 J 0.05 J <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U		
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)pyrene Benzo(d)pyrene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-od)pyrene	191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 1.4 8 0.00016 1.6E-05 0.00016 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	< 0.094 U < 0.094 U < 0.094 U < 0.094 U < 0.0094 U < 0.0094 U < 0.0094 U < 0.0094 U		<0.1 U <0.1 U <0.1 U 0.03 J 0.05 J <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U		

					Location Date Sample	CB-06 05/27/2021 CB-06-SW-210527	SWRX-MID 04/12/2017 SPM-SWRX-MID-SW-20170412	SWRX-MID 05/16/2017 SPM-SWRX-MID-SW-20170516	SWRX-MID 06/08/2017 SPM-SWRX-MID-SW-20170608
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source				
Metals	57.15_7.11	11404011			co.co.mig zove. course				
Antimony	7440-36-0	Т	ug/L	90	GW-2			-	< 5.6 U
Arsenic	7440-38-2	D	ug/L	0.14	GW-2	15.7		-	
Arsenic	7440-38-2	Т	ug/L	0.14	GW-2	19			< 3.3 U
Beryllium	7440-41-7	T	ug/L	75.6	GW-2				< 11 U
Cadmium	7440-43-9	D	ug/L	7.9	GW-2	0.254			
Cadmium	7440-43-9	T	ug/L	7.9	GW-2	0.432			< 4.4 U
Chromium	7440-47-3	D	ug/L	27.4	GW-2	2.85			
Chromium	7440-47-3	T	ug/L	27.4	GW-2	< 0.5 U			< 11 U
Copper	7440-50-8	D T	ug/L	50	SPM Boatyard Permit SPM Boatvard Permit	50.5			1400
Copper	7440-50-8 7439-92-1	T D	ug/L	50 5.6	GW-2	77.6 0.51			
Lead	7439-92-1	T	ug/L	5.6	GW-2 GW-2	3.05			26
Lead Mercury	7439-92-1	D	ug/L ug/L	0.025	GW-2	0.0023			
Mercury	7439-97-6	T	ug/L	0.025	GW-2	0.00532			< 0.5 U
Nickel	7440-02-0	D	ug/L	8.2	GW-2	2.11			
Nickel	7440-02-0	T	ug/L	8.2	GW-2	3.04			< 22 U
Selenium	7782-49-2	Ť	ug/L	71	GW-2				< 5.6 U
Silver	7440-22-4	Т	ug/L	1.9	GW-2				< 11 U
Thallium	7440-28-0	Т	ug/L	0.0619	GW-2				< 5.6 U
Zinc	7440-66-6	D	ug/L	85	SPM Boatyard Permit	95.8			
Zinc	7440-66-6	Т	ug/L	85	SPM Boatyard Permit	137			870
Butyl Tin lons									
Dibutyltin Ion	14488-53-0	T	ug/L			< 0.0077 U			
Monobutyltin	78763-54-9	T	ug/L			0.0696			
Tetrabutyltin	1461-25-2	Т	ug/L			< 0.03 U			
Tributyltin Ion	36643-28-4	Т	ug/L	0.0074	GW-2	< 0.0052 U			
Polychlorinated Biphenyl Aroclors					-				
Aroclor 1016	12674-11-2	T_	ug/L			< 0.01 U	< 0.048 U	< 0.048 U	< 0.051 U
Aroclor 1221	11104-28-2	T	ug/L			< 0.01 U	< 0.048 U	< 0.048 U	< 0.051 U
Arcelor 1232	11141-16-5	T	ug/L			< 0.01 U	< 0.048 U	< 0.048 U	< 0.051 U
Arcelor 1242	53469-21-9		ug/L			< 0.01 U	< 0.048 U	< 0.048 U	< 0.051 U
Arcelor 1248	12672-29-6	T T	ug/L			< 0.01 U	< 0.048 U	< 0.048 U	< 0.051 U
Aroclor 1254 Aroclor 1260	11097-69-1 11096-82-5	T	ug/L			< 0.01 U < 0.01 U	< 0.048 U < 0.048 U	< 0.048 U < 0.048 U	< 0.051 U < 0.051 U
Aroclor 1260 Aroclor 1262	37324-23-5	Ť	ug/L ug/L			< 0.01 U	< 0.048 0	< 0.046 0	< 0.051 0
Aroclor 1268	11100-14-4	÷	ug/L			< 0.01 U			
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	÷	ug/L	7E-06	GW-2	< 0.01 U	< 0.168 UJ	 < 0.168 UJ	< 0.178 UJ
Total PCBs (Sum of Aroclors)	T-PCBs	Ť	ug/L	7E-06	GW-2	< 0.01 U	< 0.108 U	< 0.100 03 < 0.048 U	< 0.051 U
Polychlorinated Biphenyl Congeners	11055		ug/L	72 00	311 2	- 0.01 0	- 0.040 0	10.040 0	10.0010
Total PCB Congeners	T-PCBCong	Т	ug/L	7E-06	GW-2		0.00635	0.00556	0.0284
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	Т	ug/L	4.43E-09	GW-2		0.00000731 J	0.00000524 J	0.00000328 J
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	Т	ug/L	4.43E-09	GW-2		0.00000765 J	0.00000558 J	0.00000328 J
Total Monochlorobiphenyls	MONOPCB	T	ug/L				0.0000259	0.000028	0.00002
Total Dichlorobiphenyls	2:202	Т	ug/L				0.00024	0.000149	0.00047
Total Trichlorobiphenyls	DIPCB	Т	ug/L				0.000421	0.000173	0.00104
	TRIPCB		ua/I				0.000421		0.00104
Total Tetrachlorobiphenyls	TRIPCB TETRAPCB	Ť	ug/L				0.000906	0.000591	0.00353
Total Pentachlorobiphenyls	TRIPCB TETRAPCB PENTAPCB		ug/L				0.000906 0.00181	0.000591 0.00164	0.00353 0.00802
Total Pentachlorobiphenyls Total Hexachlorobiphenyls	TRIPCB TETRAPCB PENTAPCB HEXAPCB	T T T	ug/L ug/L				0.000906 0.00181 0.00168	0.000591 0.00164 0.0017	0.00353 0.00802 0.0084
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEPTAPCB	T T T	ug/L ug/L ug/L			 	0.000906 0.00181 0.00168 0.00103	0.000591 0.00164 0.0017 0.00101	0.00353 0.00802 0.0084 0.00549
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB	T T T T	ug/L ug/L ug/L ug/L			 	0.000906 0.00181 0.00168 0.00103 0.000239	0.000591 0.00164 0.0017 0.00101 0.000261	0.00353 0.00802 0.0084 0.00549 0.00134
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB	T T T T	ug/L ug/L ug/L ug/L ug/L			 	0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000956
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB	T T T T	ug/L ug/L ug/L ug/L			 	0.000906 0.00181 0.00168 0.00103 0.000239	0.000591 0.00164 0.0017 0.00101 0.000261	0.00353 0.00802 0.0084 0.00549 0.00134
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Dioxins/Furans	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEYAPCB OCTAPCB NONAPCB DECAPCB	T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L				0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 < 0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000956
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL)	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB	T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L				0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 < 0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL)	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEXAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U	T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76F_08	GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total DDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL)	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEYAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U	T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 0)	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEYAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08	GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000956
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL)	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEYAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L				0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Octachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEYAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08	GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene	TRIPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08	GW-2 GW-2	 0.01 J	0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene 4-Ocenaphthene	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08	GW-2	 0.01 J	0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 < 0.0000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene 4-Ocenaphthene	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEXAPCB HEYAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 20 99-15-7-6 83-32-9 208-96-8	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000956 0.0000123
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Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL)	TRIPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-10 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 < 0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene Acenaphthylene Acenaphthylene Anthracene Benzo(q, h, i)perylene Fluoranthene	TRIPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB OCTAPCB OOTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-10U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U 191-12-0 191-27-6 191-24-2 206-44-0	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100	GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00188 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan T	TRIPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U B6-75-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 < 0.0000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dio	TRIPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100	GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene	TRIPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-10U DF-TEQ-11U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00188 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Actal Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan T	TRIPCB TETRAPCB TETRAPCB PENTAPCB HEXAPCB HEXAPCB HEYAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U S9-12-0 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.000261 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Di	TRIPCB TETRAPCB TETRAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U SB-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.00101 0.000261 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Anthracene Benzo(q,h,i)perylene Fluoranthene Fluoranthene Fluoranthene Phenanthracene Benzo(a)anthracene Benzo(a)pyrene	TRIPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-10U DF-TEQ-10 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 < 0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDD TEQ (ND = 1/2 RDL) Total CDD TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dio	TRIPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-10U DF-TEQ-11U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00188 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan	TRIPCB TETRAPCB TETRAPCB PENTAPCB HEXAPCB HEXAPCB HEYAPCB OCTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-10 DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.00101 0.000261 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDT TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 12 RDL) Total Dioxin/Furan TEQ (ND =	TRIPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 < 0.0000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Fluoranthene Phenanthracene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	TRIPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-10 DF-TEQ-10 DF-TEQ-11 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00188 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Octachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan T	TRIPCB TETRAPCB PENTAPCB HEXAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.00016 0.016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 < 0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.000261 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Cotachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Denzo(b)noranthene	TRIPCB TETRAPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenanthrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	TRIPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-10U DF-TEQ-10 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-120-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 BENZ-Ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5		ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.00016 0.016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00188 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123
Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total Heptachlorobiphenyls Total Hoptachlorobiphenyls Total Octachlorobiphenyls Total Nonachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total Decachlorobiphenyls Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TeQ (ND = 1/2 RDL) Total Dioxin/Furan TeQ (ND = 1/2 RDL) Total Dioxin/Furan TeQ (ND = 1/2 RDL) Total Dioxin/Furan TeQ (ND = 1/2 RDL) Total Dioxin/Furan TeQ (ND = 1/2 RDL) Total Dioxin/Furan TeQ (ND = 1/2 RDL) Total Dioxin/Furan TeQ (ND = 1/2 RDL) Total Dioxin/Furan T	TRIPCB TETRAPCB TETRAPCB PENTAPCB PENTAPCB HEXAPCB HEXAPCB HEPTAPCB OCTAPCB NONAPCB DECAPCB CDD TEQ-1/2U CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		0.000906 0.00181 0.00168 0.00103 0.000239 0.0000164 <<0.00000173 U	0.000591 0.00164 0.0017 0.00101 0.000261 0.0000165 0.0000119	0.00353 0.00802 0.0084 0.00549 0.00134 0.000956 0.0000123

					Location Date Sample	SWRX-MID 09/19/2017 SPM-SWRX-MID-SW-20170919	SWRX-POST 12/01/2016 SPM-SWRX-POST-SW-20161201	SWRX-POST 01/01/2017 SPM-SWRX-POST-SW-20170101	SWRX-POST 04/12/2017 SPM-SWRX-POST-SW-20170412
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source				
Metals	OAO_NN	Traction	OTIIC	_2022.02	Gereening Level Gource				
Antimony	7440-36-0	Т	ug/L	90	GW-2				
Arsenic	7440-38-2	D T	ug/L	0.14	GW-2				
Arsenic Beryllium	7440-38-2 7440-41-7	+ +	ug/L ug/L	0.14 75.6	GW-2 GW-2	 			
Cadmium	7440-43-9	D	ug/L	7.9	GW-2				
Cadmium	7440-43-9	Т	ug/L	7.9	GW-2				
Chromium	7440-47-3	D	ug/L	27.4	GW-2		-		
Copper	7440-47-3 7440-50-8	D D	ug/L ug/L	27.4 50	GW-2 SPM Boatyard Permit				
Copper Copper	7440-50-8	T	ug/L	50	SPM Boatyard Permit			7.03	3.5
Lead	7439-92-1	D	ug/L	5.6	GW-2				
Lead	7439-92-1	T	ug/L	5.6	GW-2			0.202	
Mercury	7439-97-6	D T	ug/L	0.025	GW-2				
Mercury Nickel	7439-97-6 7440-02-0	D	ug/L ug/L	0.025 8.2	GW-2 GW-2	 			
Nickel	7440-02-0	T	ug/L	8.2	GW-2				
Selenium	7782-49-2	T	ug/L	71	GW-2				
Silver	7440-22-4	T	ug/L	1.9	GW-2				
Thallium	7440-28-0	T	ug/L	0.0619	GW-2				
Zinc Zinc	7440-66-6 7440-66-6	D T	ug/L ug/L	85 85	SPM Boatyard Permit SPM Boatyard Permit	 		62.3	20
Butyl Tin lons	7 - 70-00-0		ag/ E		o Soutyara i offilit			02.0	
Dibutyltin Ion	14488-53-0	Т	ug/L						
Monobutyltin	78763-54-9	Ţ	ug/L				-		
Tetrabutyltin Tributyltin Ion	1461-25-2 36643-28-4	T	ug/L ug/L	0.0074	GW-2				
Polychlorinated Biphenyl Aroclors	30043-20-4		ug/L	0.0074	GVV-2				
Aroclor 1016	12674-11-2	T	ug/L			< 0.049 U	< 0.0994 U		< 0.05 U
Aroclor 1221	11104-28-2	Т	ug/L			< 0.049 U	< 0.0994 U		< 0.05 U
Aroclor 1232	11141-16-5	Ţ	ug/L			< 0.049 U	< 0.0994 U		< 0.05 U
Aroclor 1242 Aroclor 1248	53469-21-9 12672-29-6	T	ug/L ug/L			< 0.049 U < 0.049 U	< 0.0994 U < 0.0994 U		< 0.05 U < 0.05 U
Aroclor 1254	11097-69-1	†	ug/L			< 0.049 U	< 0.0994 U		< 0.05 U
Aroclor 1260	11096-82-5	Ť	ug/L			< 0.049 U	< 0.0994 U		< 0.05 U
Aroclor 1262	37324-23-5	T	ug/L						
Aroclor 1268	11100-14-4	T	ug/L	75.00	0144.0				
Total PCB Aroclors (ND=1/2 RL) Total PCBs (Sum of Aroclors)	T-PCBs1/2U T-PCBs	T	ug/L ug/L	7E-06 7E-06	GW-2 GW-2	< 0.172 UJ < 0.049 U	< 0.348 UJ < 0.0994 U		< 0.175 UJ < 0.05 U
Polychlorinated Biphenyl Congeners	1-1 003	'	ug/L	72-00	GW-Z	V 0.043 O	10.0334 0		V 0.00 0
Total PCB Congeners	T-PCBCong	Т	ug/L	7E-06	GW-2	0.0106	0.000323		0.000814
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	Ţ	ug/L	4.43E-09	GW-2	0.0000109 J	3.00E-10 J		0.000000790 J
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U MONOPCB	T	ug/L	4.43E-09	GW-2	0.00000110 J	0.000000748 J < 0.0000222 U		0.00000114 J < 0.0000035 U
Total Monochlorobiphenyls Total Dichlorobiphenyls	DIPCB	†	ug/L ug/L			0.0000857 0.000197	< 0.00000202 U		0.0000113
Total Trichlorobiphenyls	TRIPCB	T	ug/L			0.000379	< 0.00000303 U		0.000017
Total Tetrachlorobiphenyls	TETRAPCB	T	ug/L			0.00129	0.0000464		0.0000636
Total Pentachlorobiphenyls	PENTAPCB	T	ug/L			0.0033	0.000107		0.000195
Total Hexachlorobiphenyls Total Heptachlorobiphenyls	HEXAPCB HEPTAPCB	T	ug/L ug/L			0.00315 0.00179	0.000103 0.0000481		0.000272 0.000191
Total Octachlorobiphenyls	OCTAPCB	Ť	ug/L			0.000457	0.0000173		0.0000567
Total Nonachlorobiphenyls	NONAPCB	T	ug/L			0.0000326	0.00000117		0.0000687
Total Decachlorobiphenyls	DECAPCB	Т	ug/L			0.00000479	< 0.000000679 U		0.0000104
Dioxins/Furans Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	ТТ	ua/L						
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U		ug/L ug/L		 				
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	Т	ug/L	2.76E-08	GW-2				
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	T	ug/L	2.76E-08	GW-2				
Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons	DF-TEQ-1U	T	ug/L	2.76E-08	GW-2				
1-Methylnaphthalene	90-12-0	ТтТ	ug/L						
2-Methylnaphthalene	91-57-6	Ť	ug/L						
Acenaphthene	83-32-9	Т	ug/L	30	GW-2				
Acenaphthylene	208-96-8	T	ug/L	400	OW 2				
Anthracene Benzo(g,h,i)perylene	120-12-7 191-24-2	T	ug/L ug/L	100	GW-2	 			
Fluoranthene	206-44-0	†	ug/L ug/L	6	GW-2				
Fluorene	86-73-7	Ť	ug/L	10	GW-2				
Naphthalene	91-20-3	T	ug/L	1.4	GW-2				
Phenanthrene Di gene	85-01-8	T	ug/L		014/ 0				-
Pyrene Benz(a)anthracene	129-00-0 56-55-3	T	ug/L ug/L	0.00016	GW-2 GW-2	 			
Benzo(a)pyrene	50-32-8	†	ug/L ug/L	1.6E-05	GW-2				
Benzo(b)fluoranthene	205-99-2	Ť	ug/L	0.00016	GW-2				
Benzo(j)fluoranthene	205-82-3	Т	ug/L						
Benzo(j,k)fluoranthene	Benz-jk-fluor	T	ug/L	0.0046	OW 2				
Benzo(k)fluoranthene Chrysene	207-08-9 218-01-9	T	ug/L ug/L	0.0016 0.016	GW-2 GW-2				
Dibenzo(a,h)anthracene	53-70-3	†	ug/L ug/L	1.6E-05	GW-2 GW-2				
Indeno(1,2,3-cd)pyrene	193-39-5	T	ug/L	0.00016	GW-2				
Total Benzofluoranthenes	TOTBFA	T	ug/L						
Total HPAHs	T-HPAH	T	ug/L	_	 				-
Total LPAHs	T-LPAH	1 1	ug/L	İ	1			-	

					Location Date Sample	SWRX-POST 05/16/2017 SPM-SWRX-POST-SW-20170516	SWRX-POST 06/08/2017 SPM-SWRX-POST-SW-20170608	SWRX-POST 09/19/2017 SPM-SWRX-POST-SW-20170919	SWRX-POST 10/18/2017 SPM-NPDES-SW-20171018
	040 511			SPM_RI_STORMWATER_SLS	3				
Analyte Metals	CAS_RN	Fraction	Unit	_2022.02	Screening Level Source				
Antimony	7440-36-0	Т	ug/L	90	GW-2		< 5.6 U		
Arsenic	7440-38-2	D	ug/L	0.14	GW-2				
Arsenic	7440-38-2	Ţ	ug/L	0.14	GW-2		< 3.3 U		
Beryllium Cadmium	7440-41-7 7440-43-9	T D	ug/L ug/L	75.6 7.9	GW-2 GW-2		< 11 U 		
Cadmium	7440-43-9	T	ug/L	7.9	GW-2		 < 4.4 U		
Chromium	7440-47-3	D	ug/L	27.4	GW-2				
Chromium	7440-47-3	T	ug/L	27.4	GW-2		< 11 U		
Copper	7440-50-8 7440-50-8	D T	ug/L	50 50	SPM Boatyard Permit SPM Boatyard Permit	 17	 42		20
Copper Lead	7439-92-1	D	ug/L ug/L	5.6	GW-2				
Lead	7439-92-1	T	ug/L	5.6	GW-2	-	2.4		-
Mercury	7439-97-6	D	ug/L	0.025	GW-2				
Mercury	7439-97-6	T	ug/L	0.025	GW-2		< 0.5 U		
Nickel Nickel	7440-02-0 7440-02-0	D T	ug/L ug/L	8.2 8.2	GW-2 GW-2	 	 < 22 U		
Selenium	7782-49-2	†	ug/L	71	GW-2	 	< 5.6 U		
Silver	7440-22-4	T	ug/L	1.9	GW-2	-	< 11 U		_
Thallium	7440-28-0	T	ug/L	0.0619	GW-2		< 5.6 U		
Zinc	7440-66-6	D	ug/L	85	SPM Boatyard Permit				
Zinc Butyl Tin lons	7440-66-6	T	ug/L	85	SPM Boatyard Permit	53	72		53
DibutyItin Ion	14488-53-0	Т	ug/L						
Monobutyltin	78763-54-9	Ť	ug/L						
Tetrabutyltin	1461-25-2	T	ug/L						
Tributyltin Ion	36643-28-4	T	ug/L	0.0074	GW-2				
Polychlorinated Biphenyl Aroclors Aroclor 1016	12674-11-2	т	ug/L			< 0.047 U	< 0.048 U	< 0.048 U	
Aroclor 1221	11104-28-2	†	ug/L ug/L			< 0.047 U	< 0.048 U	< 0.048 U	
Aroclor 1232	11141-16-5	†	ug/L			< 0.047 U	< 0.048 U	< 0.048 U	
Aroclor 1242	53469-21-9	Т	ug/L			< 0.047 U	< 0.048 U	< 0.048 U	
Aroclor 1248	12672-29-6	T	ug/L			< 0.047 U	< 0.048 U	< 0.048 U	
Aroclor 1254	11097-69-1	T	ug/L			< 0.047 U	< 0.048 U	< 0.048 U	
Aroclor 1260 Aroclor 1262	11096-82-5 37324-23-5	T	ug/L ug/L		+	< 0.047 U	< 0.048 U	< 0.048 U 	
Aroclor 1268	11100-14-4	†	ug/L			 			
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	T	ug/L	7E-06	GW-2	< 0.165 UJ	< 0.168 UJ	< 0.168 UJ	
Total PCBs (Sum of Aroclors)	T-PCBs	T	ug/L	7E-06	GW-2	< 0.047 U	< 0.048 U	< 0.048 U	
Polychlorinated Biphenyl Congeners	T DODO	T =		75.00	014/ 0		0.00470		
Total PCB Congeners Total PCB TEQ (ND = 0)	T-PCBCong PCB-TEQ-0U	T	ug/L ug/L	7E-06 4.43E-09	GW-2 GW-2	0.00105 0.000000851 J	0.00179 0.00000138 J	0.00154 0.0000000260 J	
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U		ug/L	4.43E-09	GW-2	0.0000000313 0.000000119 J	0.00000138 3 0.00000173 J	0.0000000250 J	
Total Monochlorobiphenyls	MONOPCB	Т	ug/L			< 0.00000124 U	< 0.00000171 U	< 0.00000828 U	
Total Dichlorobiphenyls	DIPCB	T	ug/L			0.0000179	0.00000922	< 0.00000897 UJ	
Total Trichlorobiphenyls	TRIPCB	T	ug/L			0.0000119	0.0000136	0.0000895 J	
Total Tetrachlorobiphenyls Total Pentachlorobiphenyls	TETRAPCB PENTAPCB	T	ug/L ug/L	+	+	0.0000816 0.000265	0.000192 0.000424	0.000691 J 0.000347 J	
Total Hexachlorobiphenyls	HEXAPCB	+	ug/L	+	+	0.000265	0.000424	0.000547 J	
Total Heptachlorobiphenyls	HEPTAPCB	T	ug/L			0.000247	0.000444	0.000415 J	
Total Octachlorobiphenyls	OCTAPCB	Т	ug/L			0.0000626	0.0000966	0.000129	
Total Nonachlorobiphenyls	NONAPCB	T	ug/L			0.0000479	0.0000114	0.0000132	
Total Decachlorobiphenyls Dioxins/Furans	DECAPCB	T	ug/L			0.00000158	0.00000197	< 0.00000115 U	
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	Т	ug/L		T				
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U		ug/L						
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	Ţ	ug/L	2.76E-08	GW-2				
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	T	ug/L	2.76E-08	GW-2				
Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons	DF-TEQ-1U		ug/L	2.76E-08	GW-2				
1-Methylnaphthalene	90-12-0	Т	ug/L		I I		< 0.094 U		
2-Methylnaphthalene	91-57-6	Т	ug/L				0.17		
Acenaphthene	83-32-9	T	ug/L	30	GW-2		< 0.094 U		
Acenaphthylene Anthracene	208-96-8 120-12-7	T	ug/L	100	GW-2		< 0.094 U < 0.094 U		
Benzo(g,h,i)perylene	191-24-2	<u> </u>	ug/L ug/L	100	Gvv-2		< 0.094 U		
Fluoranthene	206-44-0	Ť	ug/L	6	GW-2		< 0.094 U		
Fluorene	86-73-7	T	ug/L	10	GW-2	-	< 0.094 U		
Naphthalene	91-20-3	T	ug/L	1.4	GW-2		< 0.094 U		
Phenanthrene Pyrene	85-01-8 129-00-0	T	ug/L	8	GW-2		< 0.094 U < 0.094 U		
Benz(a)anthracene	56-55-3	T	ug/L ug/L	0.00016	GW-2 GW-2		< 0.094 U		
Benzo(a)pyrene	50-32-8	Ť	ug/L	1.6E-05	GW-2		< 0.0094 U		
Benzo(b)fluoranthene	205-99-2	T	ug/L	0.00016	GW-2		< 0.0094 U		
Benzo(j)fluoranthene	205-82-3	T	ug/L						
Benzo(j,k)fluoranthene	Benz-jk-fluor	Ţ	ug/L	0.0040	CW 2		< 0.0094 U		
Benzo(k)fluoranthene Chrysene	207-08-9 218-01-9	T	ug/L ug/L	0.0016 0.016	GW-2 GW-2		 < 0.0094 U		
Dibenzo(a,h)anthracene	53-70-3	T	ug/L ug/L	1.6E-05	GW-2		< 0.0094 U		
Indeno(1,2,3-cd)pyrene	193-39-5	Ť	ug/L	0.00016	GW-2		< 0.0094 U		
Total Benzofluoranthenes	TOTBFA	Т	ug/L						
Total HPAHs	T-HPAH	Ţ	ug/L				< 0.094 U		
Total LPAHs	T-LPAH	T	ug/L	1	1		< 0.094 U		

					Location Date Sample	SWRX-POST 10/18/2017 SPM-SWRX-POST-SW-20171018	SWRX-POST 11/03/2017 SPM-NPDES-SW-20171103	SWRX-POST 11/03/2017 SPM-SWRX-POST-SW-20171103	SWRX-POST 01/05/2018 SPM-NPDES-SW-20180105
				SPM_RI_STORMWATER_SLS	5	OF MI-OVINA-1 COT-CW-2017 1010	GI M-NI DEG-GW-2017 1103	OF IN-OWNER-1 COT-CW-20171103	OF MI-INI BEG-017-20100103
Analyte Metals	CAS_RN	Fraction	Unit	_2022.02	Screening Level Source				
Antimony	7440-36-0	T	ug/L	90	GW-2				
Arsenic	7440-38-2	D	ug/L	0.14	GW-2				
Arsenic Beryllium	7440-38-2 7440-41-7	T	ug/L ug/L	0.14 75.6	GW-2 GW-2				
Cadmium	7440-43-9	D	ug/L	7.9	GW-2				
Cadmium	7440-43-9	T	ug/L	7.9	GW-2	1			-
Chromium	7440-47-3	D	ug/L	27.4	GW-2	-			
Chromium Copper	7440-47-3 7440-50-8	T D	ug/L ug/L	27.4 50	GW-2 SPM Boatyard Permit	 		 	
Copper	7440-50-8	T	ug/L	50	SPM Boatyard Permit		13		7
Lead	7439-92-1	D	ug/L	5.6	GW-2				
Lead	7439-92-1	T	ug/L	5.6	GW-2				
Mercury Mercury	7439-97-6 7439-97-6	D T	ug/L ug/L	0.025 0.025	GW-2 GW-2	 			
Nickel	7440-02-0	D	ug/L	8.2	GW-2				
Nickel	7440-02-0	T	ug/L	8.2	GW-2				
Selenium	7782-49-2	T	ug/L	71 1.9	GW-2				
Silver Thallium	7440-22-4 7440-28-0	T	ug/L ug/L	0.0619	GW-2 GW-2	 			
Zinc	7440-26-6	D	ug/L	85	SPM Boatyard Permit				
Zinc	7440-66-6	Т	ug/L	85	SPM Boatyard Permit		72		300
Butyl Tin Ions	14488-53-0		1100/1						
Dibutyltin Ion Monobutyltin	78763-54-9	+ +	ug/L ug/L			 			
Tetrabutyltin	1461-25-2	Ť	ug/L						
Tributyltin Ion	36643-28-4	Т	ug/L	0.0074	GW-2				
Polychlorinated Biphenyl Aroclors	40074.44.0	T - T	n		1	4004711		< 0.048 U	
Aroclor 1016 Aroclor 1221	12674-11-2 11104-28-2	+ +	ug/L ug/L			< 0.047 U < 0.047 U		< 0.048 U < 0.048 U	
Aroclor 1232	11141-16-5	Ť	ug/L			< 0.047 U		< 0.048 U	
Aroclor 1242	53469-21-9	Т	ug/L			< 0.047 U		< 0.048 U	
Aroclor 1248	12672-29-6	T	ug/L			< 0.047 U		< 0.048 U	-
Aroclor 1254 Aroclor 1260	11097-69-1 11096-82-5	T	ug/L ug/L			< 0.047 U < 0.047 U		< 0.048 U < 0.048 U	
Aroclor 1262	37324-23-5	†	ug/L			~ 0.047 O			
Aroclor 1268	11100-14-4	T	ug/L						
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	T	ug/L	7E-06	GW-2	< 0.165 UJ		< 0.168 UJ	-
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners	T-PCBs	<u> </u>	ug/L	7E-06	GW-2	< 0.047 UJ		< 0.048 UJ	-
Total PCB Congeners	T-PCBCong	Т	ug/L	7E-06	GW-2	0.00362		0.000924	
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	Т	ug/L	4.43E-09	GW-2	0.00000366 J		0.0000000193 J	
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	T	ug/L	4.43E-09	GW-2	0.00000439 J		0.00000312 J	
Total Monochlorobiphenyls Total Dichlorobiphenyls	MONOPCB DIPCB	T	ug/L ug/L			< 0.00000252 U 0.0000277		< 0.00000212 U 0.0000756	
Total Trichlorobiphenyls	TRIPCB	Ť	ug/L			0.0000277		< 0.0000738 < 0.0000018 U	
Total Tetrachlorobiphenyls	TETRAPCB	T	ug/L			0.000252		0.0000611	
Total Pentachlorobiphenyls	PENTAPOB	T	ug/L			0.000972		0.000255	
Total Hexachlorobiphenyls Total Heptachlorobiphenyls	HEXAPCB HEPTAPCB	+ +	ug/L ug/L			0.00122 0.000879		0.000321 0.00022	
Total Octachlorobiphenyls	OCTAPCB	Ť	ug/L			0.000219		0.000022	
Total Nonachlorobiphenyls	NONAPCB	T	ug/L			0.0000144		0.0000408	
Total Decachlorobiphenyls Dioxins/Furans	DECAPCB	Т	ug/L			< 0.00000176 U		< 0.00000151 U	
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	ТТ	ua/L						
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U		ug/L						
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	Ţ	ug/L	2.76E-08	GW-2	-			
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL)	DF-TEQ-1/2U DF-TEQ-1U	T	ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2	 			
Polycyclic Aromatic Hydrocarbons	I DE-TEQ-TO		ug/L	Z./UE-U0	GVV-Z				
1-Methylnaphthalene	90-12-0	T	ug/L						
2-Methylnaphthalene	91-57-6	T	ug/L		0)*** 0				
Acenaphthene Acenaphthylene	83-32-9 208-96-8	T	ug/L ug/L	30	GW-2	 			
Anthracene	120-12-7	Ť	ug/L	100	GW-2	 			
Benzo(g,h,i)perylene	191-24-2	Т	ug/L						
Fluoranthene	206-44-0	T	ug/L	6	GW-2				
Fluorene Naphthalene	86-73-7 91-20-3	T	ug/L ug/L	10	GW-2 GW-2	 			
Phenanthrene	85-01-8	Ť	ug/L	Let	JII 2	-			
Pyrene	129-00-0	Т	ug/L	8	GW-2				
Benz(a)anthracene	56-55-3 50-33-8	T	ug/L	0.00016	GW-2				
Benzo(a)pyrene Benzo(b)fluoranthene	50-32-8 205-99-2	T	ug/L ug/L	1.6E-05 0.00016	GW-2 GW-2	 			
Benzo(j)fluoranthene	205-89-2	†	ug/L	0.00010	O7V-Z				
Benzo(j,k)fluoranthene	Benz-jk-fluor	Т	ug/L						
Benzo(k)fluoranthene	207-08-9	T	ug/L	0.0016	GW-2				
Chrysene Dibenzo(a,h)anthracene	218-01-9 53-70-3	T	ug/L ug/L	0.016 1.6E-05	GW-2 GW-2				
Indeno(1,2,3-cd)pyrene	193-39-5	T	ug/L ug/L	0.00016	GW-2				
Total Benzofluoranthenes	TOTBFA	T	ug/L		- · · · -				
Total HPAHs	T-HPAH	T	ug/L						
Total LPAHs	T-LPAH	T	ug/L	I	1	=			

					Location Date Sample	SWRX-POST 01/23/2018 SPM-NPDES-SW-20180123	SWRX-POST 04/10/2018 SPM-NPDES-SW-20180410	SWRX-POST 10/05/2018 SPM-NPDES-SW-20181005	SWRX-POST 11/02/2018 SPM-NPDES-SW-20181102	SWRX-POST 01/03/2019 SPM-NPDES-SW-20190103
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Metals	0,10_111	1140401	O.I.I.		Colosimig Lavel Course					
Antimony	7440-36-0	Т	ug/L	90	GW-2					
Arsenic	7440-38-2	D T	ug/L	0.14	GW-2					
Arsenic Beryllium	7440-38-2 7440-41-7	T	ug/L ug/L	0.14 75.6	GW-2 GW-2					
Cadmium	7440-43-9	Ď	ug/L	7.9	GW-2					
Cadmium	7440-43-9	Т	ug/L	7.9	GW-2					
Chromium	7440-47-3	D	ug/L	27.4	GW-2					
Conner	7440-47-3 7440-50-8	T D	ug/L ug/L	27.4 50	GW-2 SPM Boatyard Permit					
Copper Copper	7440-50-8	T	ug/L	50	SPM Boatyard Permit	6.2	7.3	 14	3.1	4.2
Lead	7439-92-1	D	ug/L	5.6	GW-2					
Lead	7439-92-1	T	ug/L	5.6	GW-2					
Mercury	7439-97-6 7439-97-6	D T	ug/L	0.025 0.025	GW-2 GW-2	 				-
Mercury Nickel	7440-02-0	D	ug/L ug/L	8.2	GW-2					
Nickel	7440-02-0	T	ug/L	8.2	GW-2					
Selenium	7782-49-2	T	ug/L	71	GW-2					
Silver Thallium	7440-22-4 7440-28-0	T	ug/L	1.9 0.0619	GW-2 GW-2					
Zinc	7440-28-0 7440-66-6	D	ug/L ug/L	0.0619 85	SPM Boatvard Permit					
Zinc	7440-66-6	T	ug/L	85	SPM Boatyard Permit	110	28	27	9.8	9.8
Butyl Tin lons										
Dibutyltin Ion	14488-53-0	T	ug/L							
MonobutyItin TetrabutyItin	78763-54-9 1461-25-2	T	ug/L ug/L			 				
Tributyltin Ion	36643-28-4	T	ug/L	0.0074	GW-2					
Polychlorinated Biphenyl Aroclors										
Aroclor 1016	12674-11-2	T	ug/L							
Aroclor 1221 Aroclor 1232	11104-28-2 11141-16-5	T	ug/L							
Aroclor 1232 Aroclor 1242	53469-21-9	†	ug/L ug/L		+					
Aroclor 1248	12672-29-6	T	ug/L							
Aroclor 1254	11097-69-1	T	ug/L							
Aroclor 1260	11096-82-5	T	ug/L							
Aroclor 1262 Aroclor 1268	37324-23-5 11100-14-4	+ +	ug/L ug/L							
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	T	ug/L	7E-06	GW-2	-				
Total PCBs (Sum of Aroclors)	T-PCBs	Т	ug/L	7E-06	GW-2					
Polychlorinated Biphenyl Congeners Total PCB Congeners	T-PCBCong	T T	/1	7E-06	CW 2		I I		T	
Total PCB Congeners Total PCB TEQ (ND = 0)	PCB-TEQ-0U	+ +	ug/L ug/L	4.43E-09	GW-2 GW-2			 		
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	T	ug/L	4.43E-09	GW-2					
Total Monochlorobiphenyls	MONOPCB	T	ug/L							
Total Dichlorobiphenyls	DIPCB	T	ug/L		+					
Total Trichlorobiphenyls Total Tetrachlorobiphenyls	TRIPCB TETRAPCB	T	ug/L ug/L			<u></u>				
Total Pentachlorobiphenyls	PENTAPCB	Ť	ug/L							
Total Hexachlorobiphenyls	HEXAPCB	Т	ug/L							
Total Heptachlorobiphenyls	HEPTAPCB	T	ug/L							
Total Octachlorobiphenyls Total Nonachlorobiphenyls	OCTAPCB NONAPCB	T	ug/L ug/L							
Total Decachlorobiphenyls	DECAPCB	† †	ug/L			 				
Dioxins/Furans			-a-							
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	T	ug/L							
Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0)	CDF TEQ-1/2U DF-TEQ-0U	T	ug/L	2.76E-08	GW-2					
Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-00 DF-TEQ-1/2U	T	ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2	 				
Total Dioxin/Furan TEQ (ND = 1x RDL)	DF-TEQ-1U	Ť	ug/L	2.76E-08	GW-2					
Polycyclic Aromatic Hydrocarbons										
1-Methylnaphthalene 2-Methylnaphthalene	90-12-0 91-57-6	T	ug/L		+	<u></u>		 		<u></u>
Z-Metnyinaphthalene Acenaphthene	83-32-9	T	ug/L ug/L	30	GW-2					
Acenaphthylene	208-96-8	Т	ug/L			 				
Anthracene	120-12-7	T	ug/L	100	GW-2					
Benzo(g,h,i)perylene	191-24-2	T	ug/L		014/ 0					
Fluoranthene Fluorene	206-44-0 86-73-7	T	ug/L ug/L	6 10	GW-2 GW-2	<u></u>		 		<u></u>
Naphthalene	91-20-3	Ť	ug/L	1.4	GW-2					
Phenanthrene	85-01-8	Т	ug/L							
Pyrene	129-00-0	T	ug/L	8	GW-2					
Benz(a)anthracene	56-55-3 50-32-8	T	ug/L	0.00016 1.6E-05	GW-2 GW-2	 		 		
Benzo(a)pyrene Benzo(b)fluoranthene	205-99-2	T	ug/L ug/L	0.00016	GW-2					
Benzo(j)fluoranthene	205-82-3	Ť	ug/L	0.00010	517-2					
Benzo(j,k)fluoranthene	Benz-jk-fluor	T	ug/L							
Benzo(k)fluoranthene	207-08-9	T	ug/L	0.0016	GW-2					
Chrysene Dibenzo(a,h)anthracene	218-01-9 53-70-3	T	ug/L ug/L	0.016 1.6E-05	GW-2 GW-2	 				
Indeno(1,2,3-cd)pyrene	193-39-5	T	ug/L	0.00016	GW-2	 				
Total Benzofluoranthenes	TOTBFA	Т	ug/L							
Total HPAHs	T-HPAH	T	ug/L							
Total LPAHs	T-LPAH	T	ug/L		1				-	

					Location Date Sample	SWRX-POST 04/05/2019 SPM-NPDES-SW-20190405	SWRX-POST 05/14/2019 SPM-NPDES-SW-20190514	SWRX-POST 10/16/2019 SPM-NPDES-SW-20191016	SWRX-POST 12/12/2019 SPM-NPDES-SW-20191212	SWRX-POST 01/10/2020 SPM-NPDES-SW-20200110
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source	01 M-11 DE0-011-20130403	Of M-N1 BEO-044-20130314	Of MI-NI BEO-0W-20131010	OF WINE DEG-OW-20131212	01 W-N DEG-0W-20200110
Metals	CA3_KN	FIACION	Ullit	_2022.02	Screening Level Source					
Antimony	7440-36-0	Т	ug/L	90	GW-2					
Arsenic	7440-38-2	D	ug/L	0.14	GW-2					
Arsenic	7440-38-2	T	ug/L	0.14	GW-2					
Beryllium Cadmium	7440-41-7 7440-43-9	D	ug/L ug/L	75.6 7.9	GW-2 GW-2	<u></u>				
Cadmium	7440-43-9	T	ug/L	7.9	GW-2					
Chromium	7440-47-3	D	ug/L	27.4	GW-2					
Chromium	7440-47-3	T	ug/L	27.4	GW-2					
Copper	7440-50-8 7440-50-8	D T	ug/L ug/L	50 50	SPM Boatyard Permit SPM Boatyard Permit	 44	150	 15	5.2	6.8
Copper Lead	7439-92-1	D	ug/L	5.6	GW-2					
Lead	7439-92-1	T	ug/L	5.6	GW-2					
Mercury	7439-97-6	D	ug/L	0.025	GW-2					
Mercury	7439-97-6	T	ug/L	0.025	GW-2					
Nickel Nickel	7440-02-0 7440-02-0	D T	ug/L ug/L	8.2 8.2	GW-2 GW-2				-	
Selenium	7782-49-2	Ť	ug/L	71	GW-2			 		
Silver	7440-22-4	T	ug/L	1.9	GW-2					
Thallium	7440-28-0	Т	ug/L	0.0619	GW-2					
Zinc	7440-66-6	D T	ug/L	85	SPM Boatyard Permit					
Zinc Butyl Tin lons	7440-66-6	T	ug/L	85	SPM Boatyard Permit	17	36	28	18	18
Dibutyltin Ion	14488-53-0	Т	ug/L		I					T
Monobutyltin	78763-54-9	Ť	ug/L						-	
Tetrabutyltin	1461-25-2	Т	ug/L							
Tributyltin Ion	36643-28-4	Т	ug/L	0.0074	GW-2					
Polychlorinated Biphenyl Aroclors	12674-11-2	Т	uall							T
Aroclor 1016 Aroclor 1221	12674-11-2 11104-28-2	T	ug/L ug/L							
Aroclor 1232	11141-16-5	Ť	ug/L							
Aroclor 1242	53469-21-9	Т	ug/L			-				
Aroclor 1248	12672-29-6	Т	ug/L							
Aroclor 1254	11097-69-1	T	ug/L							
Aroclor 1260 Aroclor 1262	11096-82-5 37324-23-5	T	ug/L ug/L			-				
Aroclor 1268	11100-14-4	Ť	ug/L					 		
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	Т	ug/L	7E-06	GW-2					
Total PCBs (Sum of Aroclors)	T-PCBs	Т	ug/L	7E-06	GW-2					
Polychlorinated Biphenyl Congeners	T-PCBCong	Т	//	7E-06	CW 2		T			
Total PCB Congeners Total PCB TEQ (ND = 0)	PCB-TEQ-0U	Ť	ug/L ug/L	4.43E-09	GW-2 GW-2					
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	Ť	ug/L	4.43E-09	GW-2					
Total Monochlorobiphenyls	MONOPCB	Т	ug/L							
Total Dichlorobiphenyls	DIPCB	T	ug/L							
Total Trichlorobiphenyls	TRIPCB TETRAPCB	T	ug/L							
Total Tetrachlorobiphenyls Total Pentachlorobiphenyls	PENTAPCB	T	ug/L ug/L						-	
Total Hexachlorobiphenyls	HEXAPCB	Ť	ug/L							
Total Heptachlorobiphenyls	HEPTAPCB	Т	ug/L			-				
Total Octachlorobiphenyls	OCTAPCB	Т	ug/L							
Total Nonachlorobiphenyls	NONAPCB	T	ug/L							
Total Decachlorobiphenyls Dioxins/Furans	DECAPCB	Т	ug/L							
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	Т	ug/L							
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	Т	ug/L			<u></u>				
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	T	ug/L	2.76E-08	GW-2					
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	T	ug/L	2.76E-08	GW-2					
Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons	DF-TEQ-1U	T	ug/L	2.76E-08	GW-2					
1-Methylnaphthalene	90-12-0	Т	ug/L	1						
2-Methylnaphthalene	91-57-6	Ť	ug/L							
Acenaphthene	83-32-9	T	ug/L	30	GW-2					
Acenaphthylene	208-96-8	T	ug/L	100	0111.0	<u></u>				
Anthracene Benzo(g,h,i)perylene	120-12-7 191-24-2	T	ug/L ug/L	100	GW-2					
Fluoranthene	206-44-0	Ť	ug/L ug/L	6	GW-2					
Fluorene	86-73-7	Ť	ug/L	10	GW-2				-	
Naphthalene	91-20-3	Т	ug/L	1.4	GW-2					
Phenanthrene	85-01-8	T	ug/L		0111.0					
Pyrene Renz/(a)anthracene	129-00-0 56-55-3	T T	ug/L	8 0.00016	GW-2 GW-2					
Benz(a)anthracene Benzo(a)pyrene	50-55-3	T	ug/L ug/L	0.00016 1.6E-05	GW-2 GW-2					
Benzo(b)fluoranthene	205-99-2	T	ug/L	0.00016	GW-2					
Benzo(j)fluoranthene	205-82-3	Ť	ug/L	1.00010						
Benzo(j,k)fluoranthene	Benz-jk-fluor	Т	ug/L							
Benzo(k)fluoranthene	207-08-9	T	ug/L	0.0016	GW-2	<u></u>				
Chrysene Diberzo(a h)anthracene	218-01-9 53-70-3	T	ug/L	0.016 1.6E-05	GW-2					
Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	193-39-5	T	ug/L ug/L	0.00016	GW-2 GW-2					
Total Benzofluoranthenes	TOTBFA	Ť	ug/L	0.00010	O11-Z				-	
Total HPAHs	T-HPAH	Т	ug/L			-				
Total LPAHs	T-LPAH	Т	ug/L						-	

					Location Date Sample	SWRX-POST 04/22/2020 SPM-SWRX-POST-SW-20200422	SWRX-POST 05/17/2020 SPM-NPDES-SW-20200517	SWRX-POST 10/10/2020 SPM-NPDES-SW-20201010	SWRX-POST 11/03/2020 SPM-NPDES-SW-20201103
Analida	CAC DN	F4:	11-24	SPM_RI_STORMWATER_SLS	3	GI III GWIGAT GGT GW 20200-22	OF IN THE DEG ON ESERGIT	OF MENT DES OW 2020 FOR	01 III NI BEO OW 20201100
Analyte Metals	CAS_RN	Fraction	Unit	_2022.02	Screening Level Source				
Antimony	7440-36-0	T	ug/L	90	GW-2				
Arsenic Arsenic	7440-38-2 7440-38-2	D T	ug/L ug/L	0.14 0.14	GW-2 GW-2				
Beryllium	7440-41-7	Ť	ug/L	75.6	GW-2				
Cadmium	7440-43-9	D	ug/L	7.9	GW-2				
Cadmium Chromium	7440-43-9 7440-47-3	T D	ug/L ug/L	7.9 27.4	GW-2 GW-2	 			
Chromium	7440-47-3	T	ug/L	27.4	GW-2				
Copper	7440-50-8	D	ug/L	50	SPM Boatyard Permit				
Copper	7440-50-8 7439-92-1	T D	ug/L	50 5.6	SPM Boatyard Permit	58	8.3	9.2	18
Lead Lead	7439-92-1	T	ug/L ug/L	5.6	GW-2 GW-2				
Mercury	7439-97-6	D	ug/L	0.025	GW-2				
Mercury Nickel	7439-97-6 7440-02-0	T D	ug/L	0.025	GW-2				
Nickel	7440-02-0	T	ug/L ug/L	8.2 8.2	GW-2 GW-2				
Selenium	7782-49-2	Т	ug/L	71	GW-2				
Silver	7440-22-4	T	ug/L	1.9	GW-2				
Thallium Zinc	7440-28-0 7440-66-6	T D	ug/L ug/L	0.0619 85	GW-2 SPM Boatyard Permit				
Zinc	7440-66-6	T	ug/L	85	SPM Boatyard Permit	34	31	27	18
Butyl Tin lons	44400 50 0								
Dibutyltin Ion Monobutyltin	14488-53-0 78763-54-9	T	ug/L ug/L			 			
Tetrabutyltin	1461-25-2	Ť	ug/L	<u> </u>					
TributyItin Ion	36643-28-4	Т	ug/L	0.0074	GW-2				
Polychlorinated Biphenyl Aroclors	12674-11-2	ТТ	/!		1		1	ı	
Aroclor 1016 Aroclor 1221	12674-11-2	T	ug/L ug/L						
Aroclor 1232	11141-16-5	Ť	ug/L						
Aroclor 1242	53469-21-9	T	ug/L						
Arcelor 1254	12672-29-6 11097-69-1	T	ug/L						
Aroclor 1254 Aroclor 1260	11097-69-1	+ +	ug/L ug/L			 			
Aroclor 1262	37324-23-5	T	ug/L						
Aroclor 1268	11100-14-4	T	ug/L						
Total PCB Aroclors (ND=1/2 RL) Total PCBs (Sum of Aroclors)	T-PCBs1/2U T-PCBs	T	ug/L ug/L	7E-06 7E-06	GW-2 GW-2	 			
Polychlorinated Biphenyl Congeners	11000	· · ·	ug/L	12 00	GW Z				
Total PCB Congeners	T-PCBCong	T	ug/L	7E-06	GW-2				
Total PCB TEQ (ND = 0) Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-0U PCB-TEQ-1/2U	T	ug/L ug/L	4.43E-09 4.43E-09	GW-2 GW-2	 			
Total Monochlorobiphenyls	MONOPCB	Ť	ug/L	4.402-00	GVV-2				
Total Dichlorobiphenyls	DIPCB	T	ug/L						
Total Trichlorobiphenyls	TRIPCB TETRAPCB	T	ug/L	_					
Total Tetrachlorobiphenyls Total Pentachlorobiphenyls	PENTAPCB	+ +	ug/L ug/L						
Total Hexachlorobiphenyls	HEXAPCB	Ť	ug/L						
Total Heptachlorobiphenyls	HEPTAPCB	T	ug/L						
Total Octachlorobiphenyls Total Nonachlorobiphenyls	OCTAPCB NONAPCB	T	ug/L ug/L			 			
Total Decachlorobiphenyls	DECAPCB	†	ug/L ug/L						
Dioxins/Furans							<u>.</u>		
Total CDD TEQ (ND = 1/2 RDL)	CDE TEQ-1/2U	T	ug/L	1	1	-			
Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0)	CDF TEQ-1/2U DF-TEQ-0U	T	ug/L ug/L	2.76E-08	GW-2	 			
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	Т	ug/L	2.76E-08	GW-2	-			
Total Dioxin/Furan TEQ (ND = 1x RDL)	DF-TEQ-1U	Т	ug/L	2.76E-08	GW-2				
Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene	90-12-0	ТТ	ug/L		1				
2-Methylnaphthalene	91-57-6	Ť	ug/L						
Acenaphthene	83-32-9	T	ug/L	30	GW-2				
Anthracene	208-96-8 120-12-7	T	ug/L	100	CW 2				
Anthracene Benzo(g,h,i)perylene	120-12-7 191-24-2	T	ug/L ug/L	100	GW-2				
Fluoranthene	206-44-0	Ť	ug/L	6	GW-2				
Fluorene	86-73-7	T	ug/L	10	GW-2				
Naphthalene Phenanthrene	91-20-3 85-01-8	T	ug/L ug/L	1.4	GW-2	 			
Pyrene	129-00-0	T	ug/L ug/L	8	GW-2				
Benz(a)anthracene	56-55-3	Т	ug/L	0.00016	GW-2				
Benzo(a)pyrene	50-32-8	T	ug/L	1.6E-05	GW-2				
Benzo(b)fluoranthene Benzo(j)fluoranthene	205-99-2 205-82-3	T	ug/L ug/L	0.00016	GW-2				
Benzo(j,k)fluoranthene	Benz-jk-fluor	Ť	ug/L	<u> </u>					
Benzo(k)fluoranthene	207-08-9	T	ug/L	0.0016	GW-2				
Chrysene Diberzo(a h)anthracene	218-01-9	T	ug/L	0.016 1.6E-05	GW-2				
Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	53-70-3 193-39-5	T	ug/L ug/L	1.6E-05 0.00016	GW-2 GW-2				
Total Benzofluoranthenes	TOTBFA	Ť	ug/L	0.00010					
Total HPAHs	T-HPAH	T	ug/L						
Total LPAHs	T-LPAH	T	ug/L	1					

				Location Date Sample	SWRX-POST 01/28/2021 SPM-NPDES-SW-20210128	SWRX-POST 04/24/2021 SPM-NPDES-SW-20210424	SWRX-POST 05/27/2021 SPM-NPDES-SW-20210527	SWRX-PRE 10/08/2014 SP-OWS-01 (WATER)	SWRX-PRE 04/12/2017 SPM-SWRX-PRE-SW-20170412
Analyte	CAS RN	Fraction Unit	SPM_RI_STORMWATER_SI 2022.02	Screening Level Source					
Metals	CAS_KN	Traction Offic	_2022.02	Screening Level Source					
Antimony	7440-36-0	T ug/L	90	GW-2				0.31 J	
Arsenic	7440-38-2	D ug/L	0.14	GW-2					
Arsenic Beryllium	7440-38-2 7440-41-7	T ug/L T ug/L	0.14 75.6	GW-2 GW-2				2 < 0.4 U	
Cadmium	7440-43-9	D ug/L	7.9	GW-2					<u></u>
Cadmium	7440-43-9	T ug/L	7.9	GW-2				0.27 J	
Chromium	7440-47-3	D ug/L	27.4	GW-2	-				
Chromium Copper	7440-47-3 7440-50-8	T ug/L D ug/L	27.4 50	GW-2 SPM Boatvard Permit	 			0.52	
Copper	7440-50-8	T ug/L	50	SPM Boatyard Permit	7.4	130	34	88	
Lead	7439-92-1	D ug/L	5.6	GW-2				-	
Lead	7439-92-1	T ug/L	5.6	GW-2		3.4	0.86	3.6	
Mercury Mercury	7439-97-6 7439-97-6	D ug/L T ug/L	0.025 0.025	GW-2 GW-2	 			 < 0.2 U	
Nickel	7440-02-0	D ug/L	8.2	GW-2					
Nickel	7440-02-0	T ug/L	8.2	GW-2				1.3 J	-
Selenium	7782-49-2	T ug/L	71	GW-2				< 1 U	
Silver	7440-22-4 7440-28-0	T ug/L	1.9 0.0619	GW-2 GW-2				< 0.4 U < 1 U	
Thallium Zinc	7440-28-0 7440-66-6	T ug/L D ug/L	0.0619 85	SPM Boatvard Permit				< 1 0	
Zinc	7440-66-6	T ug/L	85	SPM Boatyard Permit	26	98	74	92	
Butyl Tin lons									
Dibutyltin Ion	14488-53-0	T ug/L		+					
Monobutyltin Tetrabutyltin	78763-54-9 1461-25-2	T ug/L T ug/L		+	 				
TributyItin Ion	36643-28-4	T ug/L	0.0074	GW-2					
Polychlorinated Biphenyl Aroclors				· .					
Aroclor 1016	12674-11-2	T ug/L							< 0.054 U
Aroclor 1221 Aroclor 1232	11104-28-2 11141-16-5	T ug/L T ug/L							< 0.054 U < 0.054 U
Aroclor 1242	53469-21-9	T ug/L							< 0.054 U
Aroclor 1248	12672-29-6	T ug/L			-				< 0.054 U
Aroclor 1254	11097-69-1	T ug/L							< 0.054 U
Aroclor 1260	11096-82-5	T ug/L							< 0.054 U
Aroclor 1262 Aroclor 1268	37324-23-5 11100-14-4	T ug/L T ug/L							
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	T ug/L	7E-06	GW-2					< 0.189 UJ
Total PCBs (Sum of Aroclors)	T-PCBs	T ug/L	7E-06	GW-2					< 0.054 UJ
Polychlorinated Biphenyl Congeners Total PCB Congeners	T DCDC	T ug/L	75.06	GW-2				0.044.1	0.0407
Total PCB TEQ (ND = 0)	T-PCBCong PCB-TEQ-0U	T ug/L T ug/L	7E-06 4.43E-09	GW-2 GW-2				0.014 J 0.00000658	0.0137 0.00000134
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	T ug/L	4.43E-09	GW-2				0.00000705	0.00000138
Total Monochlorobiphenyls	MONOPCB	T ug/L						0.0000227 J	0.0000257
Total Dichlorobiphenyls	DIPCB	T ug/L						0.0000823 J	0.000325
Total Trichlorobiphenyls Total Tetrachlorobiphenyls	TRIPCB TETRAPCB	T ug/L T ug/L						0.000431 J 0.00196 J	0.000692 0.00225
Total Pentachlorobiphenyls	PENTAPCB	T ug/L						0.00534 J	0.00399
Total Hexachlorobiphenyls	HEXAPCB	T ug/L						0.00406 J	0.00364
Total Heptachlorobiphenyls	HEPTAPCB	T ug/L						0.00172	0.00222
Total Octachlorobiphenyls Total Nonachlorobiphenyls	OCTAPCB NONAPCB	T ug/L T ug/L			 		 	0.000359 J 0.0000264 J	0.000506 0.0000449
Total Decachlorobiphenyls	DECAPCB	T ug/L						0.0000264 3	0.0000445
Dioxins/Furans		~9/L	•			•			
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	T ug/L						0.00000599 J	
Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0)	CDF TEQ-1/2U DF-TEQ-0U	T ug/L	2.76E-08	GW-2	 			0.00000104 J 0.00000414 J	
Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-00 DF-TEQ-1/2U	T ug/L T ug/L	2.76E-08	GW-2 GW-2	 			0.00000414 J 0.00000703 J	
Total Dioxin/Furan TEQ (ND = 1x RDL)	DF-TEQ-1U	T ug/L	2.76E-08	GW-2				0.00000992 J	
Polycyclic Aromatic Hydrocarbons									
1-Methylnaphthalene	90-12-0 91-57-6	T ug/L		+	 			< 0.057 U	
2-Methylnaphthalene Acenaphthene	83-32-9	T ug/L T ug/L	30	GW-2				0.042 J < 0.095 U	
Acenaphthylene	208-96-8	T ug/L						< 0.076 U	
Anthracene	120-12-7	T ug/L	100	GW-2				< 0.038 U	
Benzo(g,h,i)perylene	191-24-2	T ug/L		C)A/ C				< 0.057 UJ	
Fluoranthene Fluorene	206-44-0 86-73-7	T ug/L T ug/L	6 10	GW-2 GW-2	 			0.1 0.033 J	
Naphthalene	91-20-3	T ug/L	1.4	GW-2				< 0.38 U	
Phenanthrene	85-01-8	T ug/L						0.11	
Pyrene	129-00-0	T ug/L	8	GW-2				0.061	
Benz(a)anthracene	56-55-3 50-32-8	T ug/L	0.00016 1.6E-05	GW-2 GW-2				< 0.057 U < 0.038 U	
Benzo(a)pyrene Benzo(b)fluoranthene	205-99-2	T ug/L T ug/L	1.6E-05 0.00016	GW-2 GW-2				< 0.038 U 0.033 J	
Benzo(j)fluoranthene	205-82-3	T ug/L	0.00010	OW-2				0.033 3	
Benzo(j,k)fluoranthene	Benz-jk-fluor	T ug/L							
Benzo(k)fluoranthene	207-08-9	T ug/L	0.0016	GW-2				< 0.057 U	
Chrysene Dibenzo(a h)anthracene	218-01-9 53-70-3	T ug/L	0.016 1.6E-05	GW-2 GW-2				0.039 < 0.057 U	
Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	193-39-5	T ug/L T ug/L	0.00016	GW-2 GW-2				< 0.057 U < 0.057 UJ	
Total Benzofluoranthenes	TOTBFA	T ug/L	0.00010					0.033 J	
Total HPAHs	T-HPAH	T ug/L						0.23	
Total LPAHs	T-LPAH	T ug/L		1		-		0.14	

					Location Date Sample	SWRX-PRE 05/16/2017 SPM-SWRX-PRE-SW-20170516	SWRX-PRE 06/08/2017 SPM-SWRX-PRE-SW-20170608	SWRX-PRE 09/19/2017 SPM-SWRX-PRE-SW-20170919	SWRX-PRE 03/04/2021 PRERX-SW-210304	SWRX-PRE 05/27/2021 PRERX-SW-210527
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Metals	-			<u>-</u>	-					
Antimony Arsenic	7440-36-0 7440-38-2	T D	ug/L ug/L	90 0.14	GW-2 GW-2	<u></u>	< 5.6 U	<u></u>	 4.8 J	6.46
Arsenic	7440-38-2	T	ug/L ug/L	0.14	GW-2		 < 3.3 U		4.8 J 6.95	7.89
Beryllium	7440-41-7	T	ug/L	75.6	GW-2		< 11 U			
Cadmium	7440-43-9	D T	ug/L	7.9 7.9	GW-2		 < 4.4 U		0.944 J	0.319
Cadmium Chromium	7440-43-9 7440-47-3	D	ug/L ug/L	27.4	GW-2 GW-2	 	< 4.4 U	 	1.22 1.47 J	0.631 < 0.5 U
Chromium	7440-47-3	T	ug/L	27.4	GW-2		< 11 U	-	2.5	< 0.5 U
Copper	7440-50-8	D	ug/L	50	SPM Boatyard Permit				238 J	300
Copper Lead	7440-50-8 7439-92-1	D	ug/L ug/L	50 5.6	SPM Boatyard Permit GW-2	 	970	 	411 4.65 J	455 0.997
Lead	7439-92-1	T	ug/L	5.6	GW-2		18	-	17	4.9
Mercury	7439-97-6	D	ug/L	0.025	GW-2			-	< 0.02 UJ	0.00433
Mercury Nickel	7439-97-6 7440-02-0	T D	ug/L ug/L	0.025 8.2	GW-2 GW-2		< 0.5 U	 	0.021 4.7 J	0.00703 2.33
Nickel	7440-02-0	T	ug/L	8.2	GW-2		 < 22 U		5.27	2.97
Selenium	7782-49-2	Т	ug/L	71	GW-2		< 5.6 U	=		
Silver	7440-22-4	T	ug/L	1.9	GW-2		< 11 U			
Thallium Zinc	7440-28-0 7440-66-6	T D	ug/L ug/L	0.0619 85	GW-2 SPM Boatvard Permit	 	< 5.6 U	 	345 J	183
Zinc	7440-66-6	T	ug/L	85	SPM Boatyard Permit		650		401	314
Butyl Tin lons	·									
Dibutyltin Ion	14488-53-0	T	ug/L	1					0.0166	0.0218
MonobutyItin TetrabutyItin	78763-54-9 1461-25-2	+ +	ug/L ug/L			 		 	0.029 J 	0.0564 < 0.03 U
Tributyltin Ion	36643-28-4	Ť	ug/L	0.0074	GW-2				0.0197	0.0174
Polychlorinated Biphenyl Aroclors										
Aroclor 1016 Aroclor 1221	12674-11-2 11104-28-2	T	ug/L ug/L	1		< 0.047 U < 0.047 U	< 0.047 U < 0.047 U	< 0.048 U < 0.048 U	< 0.01 U < 0.01 U	< 0.01 U < 0.01 U
Aroclor 1232	11141-16-5	+ +	ug/L ug/L			< 0.047 U	< 0.047 U	< 0.048 U	< 0.01 U	< 0.01 U
Aroclor 1242	53469-21-9	T	ug/L			< 0.047 U	< 0.047 U	< 0.048 U	< 0.01 U	< 0.01 U
Aroclor 1248	12672-29-6	T	ug/L			< 0.047 U	< 0.047 U	< 0.048 U	< 0.01 U	< 0.01 U
Aroclor 1254 Aroclor 1260	11097-69-1 11096-82-5	T	ug/L ug/L			< 0.047 U < 0.047 U	< 0.047 U < 0.047 U	< 0.048 U < 0.048 U	0.034 0.014	0.012 0.007 J
Aroclor 1260 Aroclor 1262	37324-23-5	+ +	ug/L			< 0.047 U		< 0.046 U	< 0.01 U	< 0.01 U
Aroclor 1268	11100-14-4	T	ug/L						< 0.01 U	< 0.01 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	T	ug/L	7E-06	GW-2	< 0.165 UJ	< 0.165 UJ	< 0.168 UJ	0.083	0.0540 J
Total PCBs (Sum of Aroclors) Polychlorinated Biphenyl Congeners	T-PCBs	T	ug/L	7E-06	GW-2	< 0.047 UJ	< 0.047 UJ	< 0.048 U	0.0480	0.0190 J
Total PCB Congeners	T-PCBCong	Т	ug/L	7E-06	GW-2	0.00556	0.0226	0.00849	0.0654	0.0171
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	Т	ug/L	4.43E-09	GW-2	0.000000529 J	0.00000346 J	0.00000866 J	0.00000285	0.000000616
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	T	ug/L	4.43E-09	GW-2	0.00000563 J	0.0000346 J	0.00000942 J	0.00000292	0.00000383
Total Monochlorobiphenyls Total Dichlorobiphenyls	MONOPCB DIPCB	+ +	ug/L ug/L			0.0000299 0.000131	0.000136 0.000358	0.0000639 0.00017 J	< 0.00000691 J 0.000306	< 0.00000494 U 0.000107
Total Trichlorobiphenyls	TRIPCB	T	ug/L			0.000162	0.000686	0.000278 J	0.00141 J	0.0000828 J
Total Tetrachlorobiphenyls	TETRAPCB	T	ug/L			0.000559	0.00262	0.00106	0.00579 J	0.00158 J
Total Pentachlorobiphenyls Total Hexachlorobiphenyls	PENTAPCB HEXAPCB	T	ug/L ug/L			0.00163 0.00169	0.0064 0.00694	0.00266 0.00251 J	0.0286 0.0205 J	0.0074 J 0.00567 J
Total Heptachlorobiphenyls	HEPTAPCB	†	ug/L			0.00107	0.00447	0.002513	0.0205 J 0.00648 J	0.00367 J
Total Octachlorobiphenyls	OCTAPCB	Ť	ug/L			0.000292	0.00103	0.00036	0.00193 J	0.000281 J
Total Nonachlorobiphenyls	NONAPCB	T	ug/L			0.0000176	0.0000709	0.0000219 J	0.000308	0.0000937 J
Total Decachlorobiphenyls Dioxins/Furans	DECAPCB	T	ug/L			0.00000727	0.00000872	0.00000315	0.0000307	0.00000699
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	Т	ug/L	1						
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	Т	ug/L							
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	T	ug/L	2.76E-08	GW-2					
Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL)	DF-TEQ-1/2U DF-TEQ-1U	T	ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2	 		 		
Polycyclic Aromatic Hydrocarbons	DI 1EQ 10		~9/ E	2 02 00	J., L					
1-Methylnaphthalene	90-12-0	T	ug/L				< 0.096 U	-	< 0.1 U	0.028
2-Methylnaphthalene Acenaphthene	91-57-6 83-32-9	T	ug/L ug/L	30	GW-2	 	< 0.096 U < 0.096 U	 	< 0.1 U < 0.1 U	< 0.01 U < 0.01 U
Acenaphthylene	208-96-8	Ť	ug/L ug/L	30	GVV-Z		< 0.096 U		< 0.1 U	< 0.01 U
Anthracene	120-12-7	Т	ug/L	100	GW-2		< 0.096 U		< 0.1 U	< 0.01 U
Benzo(g,h,i)perylene	191-24-2	T	ug/L	_	OW C		0.02		< 0.1 U	0.004 J
Fluoranthene Fluorene	206-44-0	T	ug/L ug/L	6 10	GW-2 GW-2	 	0.13 < 0.096 U	 	0.02 J < 0.1 U	0.022 0.004 J
	86-73-7		~y/ ∟	1.4	GW-2		< 0.096 U		< 0.1 U	< 0.01 U
Naphthalene	86-73-7 91-20-3	Ť	ug/L	1.4			0.00011		< 0.1 U	0.007 J
Naphthalene Phenanthrene	91-20-3 85-01-8	Т	ug/L				< 0.096 U	-		
Naphthalene Phenanthrene Pyrene	91-20-3 85-01-8 129-00-0	T	ug/L ug/L	8	GW-2		< 0.096 U		< 0.1 U	0.016
Naphthalene Phenanthrene Pyrene Benz(a)anthracene	91-20-3 85-01-8 129-00-0 56-55-3	Т	ug/L ug/L ug/L	8 0.00016	GW-2		< 0.096 U 0.029		< 0.1 U < 0.1 U	0.016 0.002 J
Naphthalene Phenanthrene Pyrene	91-20-3 85-01-8 129-00-0	T T	ug/L ug/L	8			< 0.096 U		< 0.1 U	0.016
Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene	91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L	8 0.00016 1.6E-05	GW-2 GW-2	 	< 0.096 U 0.029 0.017 0.052	 	< 0.1 U < 0.1 U < 0.1 U	0.016 0.002 J < 0.01 U
Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(b)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene	91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor	T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2	** ** ** ** ** ** **	< 0.096 U 0.029 0.017 0.052 0.01		< 0.1 U < 0.1 U < 0.1 U < 0.1 U < 0.1 U < 0.1 U	0.016 0.002 J < 0.01 U 0.007 J < 0.01 U
Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2		< 0.096 U 0.029 0.017 0.052 0.01		<0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U <0.1 U	0.016 0.002 J < 0.01 U 0.007 J < 0.01 U < 0.01 U
Naphthalene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene	91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor	T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2	** ** ** ** ** ** **	< 0.096 U 0.029 0.017 0.052 0.01		< 0.1 U < 0.1 U < 0.1 U < 0.1 U < 0.1 U < 0.1 U	0.016 0.002 J < 0.01 U 0.007 J < 0.01 U
Naphthalene Phenanthrene Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(j)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	8 0.00016 1.6E-05 0.00016 0.0016	GW-2 GW-2 GW-2 GW-2 GW-2		< 0.096 U 0.029 0.017 0.052 0.01 0.072 < 0.0096 U 0.019		< 0.1 U < 0.1 U < 0.1 U < 0.1 U < 0.1 U < 0.1 U < 0.1 U < 0.1 U < 0.1 U < 0.1 U	0.016 0.002 J < 0.01 U 0.007 J < 0.01 U < 0.01 U 0.012 < 0.01 UJ 0.002 J
Naphthalene Phenanthrene Phyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(j,k)fluoranthene Benzo(j,k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Dibenzo(a,h)anthracene	91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	8 0.00016 1.6E-05 0.00016 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2		< 0.096 U 0.029 0.017 0.052 0.01 0.072 < 0.0096 U		< 0.1 U < 0.1 U < 0.1 U < 0.1 U < 0.1 U 	0.016 0.002 J < 0.01 U 0.007 J < 0.01 U < 0.01 U 0.012 < 0.01 UJ

					Location Date Sample	SWRX-PRE 05/27/2021 PRERX-SW-FD-210527
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source	
etals	0,10_111	Tradudit	Onit		Corconning Edvor Course	
ntimony	7440-36-0	T	ug/L	90	GW-2	-
rsenic	7440-38-2	D	ug/L	0.14	GW-2	6.31
rsenic	7440-38-2	T	ug/L	0.14	GW-2	7.13
eryllium	7440-41-7	Т	ug/L	75.6	GW-2	
admium	7440-43-9	D	ug/L	7.9	GW-2	0.324
admium	7440-43-9	Т	ug/L	7.9	GW-2	0.617
nromium	7440-47-3	D	ug/L	27.4	GW-2	< 0.5 U
nromium	7440-47-3	T	ug/L	27.4	GW-2	< 0.5 U
ppper	7440-50-8	D	ug/L	50	SPM Boatyard Permit	283
pper	7440-50-8	T	ug/L	50	SPM Boatyard Permit	457
ad .	7439-92-1	D	ug/L	5.6	GW-2	0.958
ad	7439-92-1	T	ug/L	5.6	GW-2	6.61
ercury	7439-97-6	D	ug/L	0.025	GW-2	0.00459
ercury	7439-97-6	T	ug/L	0.025	GW-2	0.00814
ckel	7440-02-0	D	ug/L	8.2	GW-2	2.18
ckel	7440-02-0	Ţ	ug/L	8.2	GW-2	2.88
lenium	7782-49-2	T	ug/L	71	GW-2	
ver	7440-22-4	Ţ	ug/L	1.9	GW-2	
allium	7440-28-0	T	ug/L	0.0619	GW-2	
IC .	7440-66-6	D T	ug/L	85	SPM Boatyard Permit	182
IC	7440-66-6	<u> </u>	ug/L	85	SPM Boatyard Permit	308
tyl Tin lons	44400.50.0		n			0.6171
outyltin lon	14488-53-0	T	ug/L	_		0.0174
onobutyltin trobutyltin	78763-54-9	T	ug/L	_		0.0531
trabutyltin	1461-25-2		ug/L	0.0074	CIM C	< 0.03 U
butyltin lon	36643-28-4	Т	ug/L	0.0074	GW-2	0.0159
lychlorinated Biphenyl Aroclors	40074.44.0	-			+	200411
oclor 1016	12674-11-2 11104-28-2	T	ug/L			< 0.01 U < 0.01 U
oclor 1221			ug/L			
oclor 1232	11141-16-5	T	ug/L			< 0.01 U
oclor 1242	53469-21-9 12672-29-6	Ţ	ug/L			< 0.01 U
oclor 1248		T	ug/L			< 0.01 U
oclor 1254	11097-69-1	Ţ	ug/L			0.015
oclor 1260	11096-82-5	T	ug/L			0.01 J
oclor 1262	37324-23-5	Ţ	ug/L			< 0.01 U
oclor 1268	11100-14-4	T	ug/L	75.00	01// 0	< 0.01 U
otal PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	Ţ	ug/L	7E-06	GW-2	0.0600 J
otal PCBs (Sum of Aroclors) Olychlorinated Biphenyl Congeners	T-PCBs		ug/L	7E-06	GW-2	0.0250 J
	T-PCBCong	Т	/!	7E-06	GW-2	
tal PCB Congeners tal PCB TEQ (ND = 0)	PCB-TEQ-0U	Ť	ug/L ug/L	4.43E-09	GW-2 GW-2	
tal PCB TEQ (ND = 0)	PCB-TEQ-00	÷ +	ug/L ug/L	4.43E-09 4.43E-09	GW-2 GW-2	
otal Monochlorobiphenyls	MONOPCB	i	ug/L	4.45E-05	GVV-Z	
otal Dichlorobiphenyls	DIPCB	i	ug/L			
otal Trichlorobiphenyls	TRIPCB	Ť	ug/L			
otal Tetrachlorobiphenyls	TETRAPCB	÷ †	ug/L			
otal Pentachlorobiphenyls	PENTAPCB	÷	ug/L			
tal Hexachlorobiphenyls	HEXAPCB	Ť	ug/L			
tal Heptachlorobiphenyls	HEPTAPCB	Ť	ug/L			
tal Octachlorobiphenyls	OCTAPCB	Ť	ug/L			
tal Nonachlorobiphenyls	NONAPCB	÷	ug/L			
tal Decachlorobiphenyls	DECAPCB	†	ug/L			
oxins/Furans	DEGAL OB		ug/L			
tal CDD TEQ (ND = 1/2 RDL)	ODD TEO 4/011	Т	ug/L			
tal CDF TEQ (ND = 1/2 RDL)						
tal Dioxin/Furan TEQ (ND = 0)	CDD TEQ-1/2U CDF TEQ-1/2U	T				
tal Dioxin/Furan TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	T	ug/L	2.76F-08	GW-2	
I DIOXIII/FUI AII I EQ (IND = 1/2 NDL)	CDF TEQ-1/2U DF-TEQ-0U	T T T	ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2	
	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U		ug/L ug/L ug/L	2.76E-08	GW-2	-
tal Dioxin/Furan TEQ (ND = 1x RDL)	CDF TEQ-1/2U DF-TEQ-0U	Т	ug/L ug/L			
al Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1U	Т	ug/L ug/L ug/L ug/L	2.76E-08	GW-2	
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons Methylnaphthalene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U	T	ug/L ug/L ug/L ug/L	2.76E-08	GW-2	
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons wethylnaphthalene Methylnaphthalene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-11U 90-12-0	T T	ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08	GW-2	 0.026
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons dethylnaphthalene Methylnaphthalene enaphthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6	T T	ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2	 0.026 < 0.01 U
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons Methylnaphthalene Methylnaphthalene enaphthene enaphthylene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-11U 90-12-0 91-57-6 83-32-9	T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2	 0.026 < 0.01 U < 0.01 U
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons Methylnaphthalene Methylnaphthalene enaphthene enaphthylene thracene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2	 0.026 < 0.01 U < 0.01 U < 0.01 U
tal Dioxin/Furan TEQ (ND = 1x RDL) tycyclic Aromatic Hydrocarbons Methylnaphthalene Methylnaphthalene enaphthene enaphthylene thracene nzo(q,h,i)perylene	DF-TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08	GW-2 GW-2	 0.026 < 0.01 U < 0.01 U < 0.01 U < 0.01 U
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons Methylnaphthalene Methylnaphthalene enaphthene enaphthylene thracene nzo(g,h,i)perylene oranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30	GW-2 GW-2 GW-2	 0.026 < 0.01 U < 0.01 U < 0.01 U < 0.01 U 0.007 J
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons #ethylnaphthalene #ethylnaphthalene enaphthene enaphthylene thracene tozo(g,h,i)perylene oranthene orene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-11U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100	GW-2 GW-2 GW-2 GW-2	 0.026 < 0.01 U < 0.01 U < 0.01 U < 0.01 U 0.007 J 0.03
tal Dioxin/Furan TEQ (ND = 1x RDL) tycyclic Aromatic Hydrocarbons Methylnaphthalene Methylnaphthalene enaphthene enaphthylene thracene nzo(g,h,i)perylene oranthene orene phthalene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	0.026 < 0.01 U < 0.01 U < 0.01 U < 0.01 U < 0.01 U 0.007 J 0.03 0.003 J
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons Methylnaphthalene Me	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons Methylnaphthalene Methylnaphthalene enaphthene enaphthylene thracene nzo(g,h,i)perylene toranthene torene phthalene enanthrene enanthrene enanthrene erene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons Methylnaphthalene Me	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons wethylnaphthalene wethylnaphthalene enaphthene enaphthylene thracene nzo(g,h,i)perylene loranthene lorene phthalene enanthrene enaphthene	CDF TEQ-1/2U DF-TEQ-10U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons Methylnaphthalene Methylnaphthalene enaphthene enaphthylene thracene nzo(g,h,i)perylene toranthene torene phthalene enanthrene enaphtrene enaphthylene thracene nzo(a)pytrene nzo(a)pytrene nzo(b)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons Methylnaphthalene Methylnaphthalene Methylnaphthalene Methylnaphthalene Methylnaphthalene Methylnaphthalene Methylnaphthalene Menaphthylene Menaphthylene Menaphthylene Menaphthylene Menaphthalene Mena	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons whethylnaphthalene dethylnaphthalene enaphthene enaphthylene thracene nzo(g,h,i)perylene loranthene loranthene lorene phthalene enanthrene enaphthene enapthene nzo(g,h,i)perylene loranthene loranthene lorene phthalene enanthrene enapthylene enapthylene loranthene lorene nzo(a)pyrene nzo(b)fluoranthene nzo(j,k)fluoranthene nzo(j,k)fluoranthene	CDF TEQ-1/2U DF-TEQ-10U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-!k-fluor	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	
otal Dioxin/Furan TEQ (ND = 1x RDL) objectelic Aromatic Hydrocarbons Methylnaphthalene	CDF TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 566-55-3 50-32-8 205-99-2 205-82-3 Benz-jk-fluor 207-08-9	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons wethylnaphthalene wethylnaphthalene enaphthene enaphthene enaphthylene thracene nzo(g,h,i)perylene loranthene lorene phphthalene enanthrene rene nzo(a)anthracene nzo(a)pyrene nzo(a)pyrene nzo(b)fluoranthene nzo(b)fluoranthene nzo(j,k)fluoranthene nzo(j,k)fluoranthene nzo(j,k)fluoranthene nzo(j,k)fluoranthene nzo(k)fluoranthene nzo(k)fluoranthene nzo(k)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-11U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	
otal Dioxin/Furan TEQ (ND = 1x RDL) objectelic Aromatic Hydrocarbons Methylnaphthalene Methylnaphthalene Methylnaphthalene Methylnaphthalene Methylnaphthalene Methylnaphthalene Methylnaphthalene Menaphthene Menaphthylene Menaphthylene Menaphthylene Menaphthalene	CDF TEQ-1/2U DF-TEQ-10U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-jk-fluor 207-08-9 218-01-9 53-70-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.8E-05 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	
tal Dioxin/Furan TEQ (ND = 1x RDL) lycyclic Aromatic Hydrocarbons wethylnaphthalene Methylnaphthalene menaphthylene menaphthylene menaphthylene moranthene	CDF TEQ-1/2U DF-TEQ-10U DF-TEQ-11U DF-TEQ-11U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-ik-fluor 207-08-9 218-01-9 53-70-3 193-39-5	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.6E-05 0.00016	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	
otal Dioxin/Furan TEQ (ND = 1/2 RDL) olycyclic Aromatic Hydrocarbons Methylnaphthalene Methylnaphthalene cenaphthylene nthracene enzo(g,h,i)perylene luoranthene luoranthene luoranthene enzo(g,h,i)aphthalene aphthalene henanthrene yrene enzo(a)mthracene enzo(a)pyrene enzo(b)ffluoranthene enzo(f,k)fluoranthene hysene ibenzo(a,h)anthracene ideno(1,2,3-cd)pyrene otal HPAHs	CDF TEQ-1/2U DF-TEQ-10U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3 Benz-jk-fluor 207-08-9 218-01-9 53-70-3	T T T T T T T T T T T T T T T T T T T	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2.76E-08 2.76E-08 30 100 6 10 1.4 8 0.00016 1.8E-05 0.0016 0.016 1.6E-05	GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2 GW-2	

					Location Date Sample	CB-01 09/19/2017 SPM-CB-01-SW-20170919	CB-02 06/08/2017 SPM-CB-02-SW-20170608	CB-02 09/19/2017 SPM-CB-02-SW-20170919	CB-02 03/05/2021 CB-02-SW-210305	CB-02 04/24/2021 SPM-CB-02-SW-20210424
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Total PAHs (ND=0)	T-PAH	T	ug/L	_2022.02	Ocidenting Edver Course		< 0.096 U		0.0700 J	
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	T	ug/L	0.00969	GW-2		< 0 U		< 0.1 U	
Total cPAHs TEQ (ND = 1/2 RDL) Total cPAHs TEQ (ND=1)	T-cPAH-1/2U T-cPAH-1U	T	ug/L ug/L	0.00969	GW-2	<u></u>	< 0.007248 U		< 0.0805 U	
Semivolatile Organic Compounds	I I-CFAH-10		ug/L		L					
1,2-Dinitrobenzene	528-29-0	T	ug/L				< 0.96 U			
1,2-Diphenylhydrazine	122-66-7	T	ug/L	0.02	GW-2		< 0.96 U < 0.96 U			
1,3-Dinitrobenzene 1,4-Dinitrobenzene	99-65-0 100-25-4	T T	ug/L ug/L			<u></u>	< 0.96 U			
2,3,4,6-Tetrachlorophenol	58-90-2	Ť	ug/L				< 0.96 U			
2,3,5,6-Tetrachlorophenol	935-95-5	T	ug/L				< 0.96 U			
2,3-Dichloroaniline 2,4,5-Trichlorophenol	608-27-5 95-95-4	T	ug/L ug/L	600	GW-2	<u></u>	< 0.96 U < 0.96 U		 <1U	
2,4,6-Trichlorophenol	88-06-2	Ť	ug/L	0.28	GW-2		< 0.96 U		<1U	
2,4-Dichlorophenol	120-83-2	Т	ug/L	10	GW-2		< 0.96 U		< 1 U	
2,4-Dimethylphenol	105-67-9	T	ug/L	97	GW-2		< 0.96 U		< 1 U	
2,4-Dinitrophenol 2,4-Dinitrotoluene	51-28-5 121-14-2	T	ug/L ug/L	100 0.18	GW-2 GW-2		< 4.8 U < 0.96 U		< 2 UJ < 1 U	
2,6-Dinitrotoluene	606-20-2	T	ug/L	0.10	OVV-2		< 0.96 U		<1U	
2-Chloronaphthalene	91-58-7	T	ug/L	100	GW-2		< 0.96 U		< 0.2 U	
2-Chlorophenol	95-57-8	T	ug/L	17	GW-2		< 0.96 U		< 0.2 U	
2-Methylphenol 2-Nitroaniline	95-48-7 88-74-4	T	ug/L ug/L	1		<u></u>	< 0.96 U < 0.96 U		< 0.2 U < 1 U	
2-Nitrophenol	88-75-5	Ť	ug/L ug/L				< 0.96 U		<1U	
3 & 4 Methylphenol	65794-96-9	Т	ug/L				< 0.96 U			
3,3'-Dichlorobenzidine	91-94-1	T	ug/L	0.0033	GW-2		< 0.96 U		<10	
3-Nitroaniline 4,6-Dinitro-2-methylphenol	99-09-2 534-52-1	T	ug/L ug/L	7	GW-2	 	< 0.96 U < 4.8 U		< 1 U < 2 U	
4-Bromophenyl phenyl ether	101-55-3	Ť	ug/L	,	GW-2		< 0.96 U		< 0.2 U	
4-Chloro-3-methylphenol	59-50-7	T	ug/L	36	GW-2		< 0.96 U		< 1 U	
4-Chloroaniline	106-47-8	T	ug/L				< 0.96 U		< 1 UJ	
4-Chlorophenyl phenyl ether 4-Methylphenol	7005-72-3 106-44-5	T	ug/L ug/L			 	< 0.96 U		< 0.2 UJ 0.1 J	
4-Nitroaniline	100-44-3	Ť	ug/L				< 0.96 U		<1U	
4-Nitrophenol	100-02-7	T	ug/L				< 4.8 U		< 1 U	
Aniline	62-53-3	T	ug/L		200.0		< 4.8 U			
Benzidine Benzoic acid	92-87-5 65-85-0	T	ug/L ug/L	2.3E-05	GW-2	<u></u>	< 4.8 U		 < 2 U	
Benzyl alcohol	100-51-6	Ť	ug/L				< 0.96 U		< 0.2 U	
Benzyl butyl phthalate	85-68-7	Т	ug/L	0.013	GW-2		< 0.96 U		0.09 J	
Bis(2-chloro-1-methylethyl) ether	108-60-1	T	ug/L	900	GW-2				< 0.2 U	
Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether	111-91-1 111-44-4	T	ug/L ug/L	0.06	GW-2		< 0.96 U < 0.96 U		< 0.2 U < 0.2 U	
bis(2-Chloroisopropyl)ether	39638-32-9	Ť	ug/L	0.00	OW Z		< 0.96 U			
Bis(2-ethylhexyl) adipate	103-23-1	Т	ug/L				< 0.96 U			
Bis(2-ethylhexyl) phthalate	117-81-7 86-74-8	T	ug/L	0.046	GW-2		59 < 0.96 U		24.7 J < 0.2 U	
Carbazole Dibenzofuran	132-64-9	T	ug/L ug/L			<u></u>	< 0.96 U		< 0.2 U	
Diethyl phthalate	84-66-2	Ť	ug/L	200	GW-2		< 0.96 U		< 0.2 U	
Dimethyl phthalate	131-11-3	Т	ug/L	600	GW-2		< 0.96 U		0.2	
Di-n-butyl phthalate	84-74-2	T	ug/L	8	GW-2		1.9		0.9	
Di-n-octyl phthalate Hexachlorobenzene	117-84-0 118-74-1	T	ug/L ug/L	5E-06	GW-2	 	< 0.96 U < 0.96 U		1.1 < 0.2 U	
Hexachlorobutadiene	87-68-3	Ť	ug/L	0.01	GW-2		< 0.96 U		< 0.2 U	
Hexachlorocyclopentadiene	77-47-4	T	ug/L	1	GW-2		< 0.96 U		< 1 UJ	
Hexachloroethane Isophorone	67-72-1 78-59-1	T	ug/L	0.02 110	GW-2 GW-2		< 0.96 U < 0.96 U		< 0.2 U < 0.2 U	
Nitrobenzene	78-59-1 98-95-3	 	ug/L ug/L	110	GW-2 GW-2	<u></u>	< 0.96 U		< 0.2 U	
N-Nitrosodimethylamine	62-75-9	Ť	ug/L	0.34	GW-2		< 0.96 U			
N-Nitroso-di-n-propylamine	621-64-7	T	ug/L	0.058	GW-2		< 0.96 U		< 0.2 U	
N-Nitrosodiphenylamine	86-30-6 87-86-5	T	ug/L	0.69 0.002	GW-2 GW-2		< 0.96 U < 4.8 U		< 0.2 U < 1 UJ	
Pentachlorophenol Perylene	198-55-0	+ +	ug/L ug/L	0.002	GVV-Z		< 4.8 U		< 1 UJ 	
Phenol	108-95-2	T	ug/L	70000	GW-2	<u>-</u>	< 0.96 U	_	0.08 J	
Pyridine	110-86-1	T	ug/L				< 0.96 U			
Total Petroleum Hydrocarbons	TPH-GRO	Т	110/1	000	GW-2		T	1	< 100 U	
Gasoline Range Organics Diesel Range Organics	TPH-GRO TPH-DRO	+ +	ug/L ug/L	800 500	GW-2 GW-2	<u></u>			115	
Motor Oil Range Organics	TPH-ORO	Т	ug/L	500	GW-2				380	
Diesel and Oil Extended Range Organics	TPH-EXT	Т	ug/L	500	GW-2				495	
Volatile Organic Compounds 1,2,4-Trichlorobenzene	120-82-1	Т	110/1	0.037	GW-2		< 0.96 U	1	< 0.2 U	
1,2-Dichlorobenzene	95-50-1	+ +	ug/L ug/L	800	GW-2 GW-2		< 0.96 U		< 0.2 U	
1,3-Dichlorobenzene	541-73-1	T	ug/L	2	GW-2		< 0.96 U		< 0.2 U	
1,4-Dichlorobenzene	106-46-7	Т	ug/L	59.8	GW-2		< 0.96 U		< 0.2 U	
Conventionals Alkalinity as Ricarbonate	ALKHCO3	Т	mall as CaCCa				T	I	1	
Alkalinity as Bicarbonate Alkalinity as Carbonate	ALKHCO3 ALKCO3	T	mg/L as CaCO3 mg/L as CaCO3			<u></u>				
Alkalinity, Total	ALKT	T	ug/L			<u>-</u>	11000	_		
Chloride	16887-00-6	Ţ	ug/L							
Dissolved Organic Carbon	DOC	T	ug/L	I	ı	-			-	

					Location Date Sample	CB-02 05/27/2021 SPM-CB-02-SW-20210527	CB-02 05/27/2021 CB-02-SW-210527	CB-05 09/19/2017 SPM-CB-05-SW-20170919	CB-05 04/24/2021 SPM-CB-05-SW-20210424	CB-05 05/27/2021 SPM-CB-05-SW-20210527
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Total PAHs (ND=0)	T-PAH	T	ug/L	_2022.02	Corecting Ecver Course		2.68 J			
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	T	ug/L	0.00969	GW-2		0.0162 J			
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	T	ug/L	0.00969	GW-2		0.0167 J			
Total cPAHs TEQ (ND=1) Semivolatile Organic Compounds	T-cPAH-1U	T	ug/L							
1,2-Dinitrobenzene	528-29-0	T T	ug/L	1						
1,2-Diphenylhydrazine	122-66-7	T	ug/L	0.02	GW-2					
1,3-Dinitrobenzene	99-65-0	T	ug/L							
1,4-Dinitrobenzene 2.3.4.6-Tetrachlorophenol	100-25-4 58-90-2	T	ug/L							
2,3,5,6-Tetrachlorophenol	935-95-5	T T	ug/L ug/L			 				
2,3-Dichloroaniline	608-27-5	Ť	ug/L					-		
2,4,5-Trichlorophenol	95-95-4	T	ug/L	600	GW-2		< 1 U			
2,4,6-Trichlorophenol	88-06-2	T	ug/L	0.28	GW-2		< 1 U < 1 U			
2,4-Dichlorophenol 2,4-Dimethylphenol	120-83-2 105-67-9	T	ug/L ug/L	10 97	GW-2 GW-2	<u></u>	1.7			
2,4-Dinitrophenol	51-28-5	Ť	ug/L	100	GW-2		< 2 UJ			
2,4-Dinitrotoluene	121-14-2	T	ug/L	0.18	GW-2		<1U			
2,6-Dinitrotoluene	606-20-2	T	ug/L	100	0111.0		<10			
2-Chloronaphthalene 2-Chlorophenol	91-58-7 95-57-8	T	ug/L	100 17	GW-2 GW-2		< 0.01 U < 0.2 U	 		
2-Methylphenol	95-57-8	+ +	ug/L ug/L	11	GVV-2		< 0.2 U			
2-Nitroaniline	88-74-4	Ť	ug/L			_	<1U	_		
2-Nitrophenol	88-75-5	T	ug/L				<1U			
3 & 4 Methylphenol	65794-96-9	T	ug/L	0.0000	OW 0					
3,3'-Dichlorobenzidine 3-Nitroaniline	91-94-1 99-09-2	T	ug/L ug/L	0.0033	GW-2	 	<1U <1U			
4,6-Dinitro-2-methylphenol	534-52-1	†	ug/L	7	GW-2		< 2 U			
4-Bromophenyl phenyl ether	101-55-3	T	ug/L	·			< 0.2 U	_		
4-Chloro-3-methylphenol	59-50-7	T	ug/L	36	GW-2		< 1 U			
4-Chloroaniline	106-47-8	T	ug/L				< 1 UJ			
4-Chlorophenyl phenyl ether 4-Methylphenol	7005-72-3 106-44-5	T	ug/L ug/L			 	< 0.2 U 1.8			
4-Nitroaniline	100-44-3	Ť	ug/L				< 1 U			
4-Nitrophenol	100-02-7	T	ug/L				< 1 U	-		
Aniline	62-53-3	T	ug/L							
Benzidine Benzid said	92-87-5 65-85-0	T	ug/L	2.3E-05	GW-2		 < 2 U			
Benzoic acid Benzyl alcohol	100-51-6	T	ug/L ug/L			 	1.3	 		
Benzyl butyl phthalate	85-68-7	Ť	ug/L	0.013	GW-2	-	0.08 J			
Bis(2-chloro-1-methylethyl) ether	108-60-1	Т	ug/L	900	GW-2		< 0.2 U			
Bis(2-chloroethoxy)methane	111-91-1	T	ug/L	0.00	OW 0		< 0.2 U			
Bis(2-chloroethyl) ether bis(2-Chloroisopropyl)ether	111-44-4 39638-32-9	T	ug/L ug/L	0.06	GW-2		< 0.2 U			
Bis(2-ethylhexyl) adipate	103-23-1	Ť	ug/L							
Bis(2-ethylhexyl) phthalate	117-81-7	Т	ug/L	0.046	GW-2		6.9			
Carbazole	86-74-8	T	ug/L				0.009 J			
Dibenzofuran	132-64-9 84-66-2	T	ug/L	200	GW-2		0.01 < 0.2 U			
Diethyl phthalate Dimethyl phthalate	131-11-3	Ť	ug/L ug/L	600	GW-2		0.2 U			
Di-n-butyl phthalate	84-74-2	Ť	ug/L	8	GW-2		0.4			
Di-n-octyl phthalate	117-84-0	T	ug/L				0.1 J			
Hexachlorobenzene	118-74-1	T	ug/L	5E-06	GW-2		< 0.2 U			
Hexachlorobutadiene Hexachlorocyclopentadiene	87-68-3 77-47-4	T	ug/L ug/L	0.01	GW-2 GW-2		< 0.2 U < 1 U			
Hexachloroethane	67-72-1	† †	ug/L ug/L	0.02	GW-2 GW-2		< 0.2 U			
Isophorone	78-59-1	Т	ug/L	110	GW-2		< 0.2 U			
Nitrobenzene	98-95-3	T	ug/L	100	GW-2		< 0.2 U			
N-Nitrosodimethylamine	62-75-9 621-64-7	T	ug/L	0.34 0.058	GW-2 GW-2		 < 0.2 U			
N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	86-30-6	T	ug/L ug/L	0.058	GW-2 GW-2	 	< 0.2 U			
Pentachlorophenol	87-86-5	Ť	ug/L	0.002	GW-2		< 1 U			
Perylene	198-55-0	Т	ug/L				< 0.01 U			
Phenol	108-95-2	T	ug/L	70000	GW-2		1.1			
Pyridine Total Petroleum Hydrocarbons	110-86-1	T	ug/L							
Gasoline Range Organics	TPH-GRO	Т	ug/L	800	GW-2		127			
Diesel Range Organics	TPH-DRO	Ť	ug/L	500	GW-2		< 100 U	-		
Motor Oil Range Organics	TPH-ORO	T	ug/L	500	GW-2		514			
Diesel and Oil Extended Range Organics	TPH-EXT	T	ug/L	500	GW-2		514			
Volatile Organic Compounds 1,2,4-Trichlorobenzene	120-82-1	Т	ug/L	0.037	GW-2		< 0.2 U			
1,2-Dichlorobenzene	95-50-1	T	ug/L ug/L	800	GW-2 GW-2		< 0.2 U			
1,3-Dichlorobenzene	541-73-1	T	ug/L	2	GW-2		< 0.2 U			
1,4-Dichlorobenzene	106-46-7	T	ug/L	59.8	GW-2		< 0.2 U			
Conventionals Alkalinity as Ricarbonate	ALKHCO3	Т	ma/l as C=CCC	1			1			T
Alkalinity as Bicarbonate Alkalinity as Carbonate	ALKHCO3 ALKCO3	T	mg/L as CaCO3 mg/L as CaCO3							
Alkalinity, Total	ALKCOS	Ť	ug/L							
Chloride	16887-00-6	Т	ug/L							
Dissolved Organic Carbon	DOC	Т	ug/L	<u> </u>						

					Location Date Sample	CB-06 06/08/2017 SPM-CB-06-SW-20170608	CB-06 09/19/2017 SPM-CB-06-SW-20170919	CB-06 03/04/2021 CB-06-SW-210304	CB-06 04/24/2021 SPM-CB-06-SW-20210424	CB-06 05/27/2021 SPM-CB-06-SW-20210527
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Total PAHs (ND=0)	T-PAH	T	ug/L	_2022.02	Screening Level Source	0.0610		0.130 J		
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	Т	ug/L	0.00969	GW-2	0.00182		< 0.1 U		
Total cPAHs TEQ (ND = 1/2 RDL) Total cPAHs TEQ (ND=1)	T-cPAH-1/2U T-cPAH-1U	T	ug/L	0.00969	GW-2	0.00840		< 0.0805 U		
Semivolatile Organic Compounds	I-CFAH-10	<u> </u>	ug/L							
1,2-Dinitrobenzene	528-29-0	Т	ug/L			< 0.94 U				
1,2-Diphenylhydrazine 1,3-Dinitrobenzene	122-66-7 99-65-0	T	ug/L	0.02	GW-2	< 0.94 U < 0.94 U			 	
1,4-Dinitrobenzene	100-25-4	'	ug/L ug/L			< 0.94 U				
2,3,4,6-Tetrachlorophenol	58-90-2	T	ug/L			< 0.94 U				
2,3,5,6-Tetrachlorophenol	935-95-5 608-27-5	T	ug/L			< 0.94 U				
2,3-Dichloroaniline 2.4.5-Trichlorophenol	95-95-4	+ +	ug/L ug/L	600	GW-2	< 0.94 U < 0.94 U		 <1 U		
2,4,6-Trichlorophenol	88-06-2	Ť	ug/L	0.28	GW-2	< 0.94 U		<1U		
2,4-Dichlorophenol	120-83-2	T	ug/L	10	GW-2	< 0.94 U		< 1 U		
2,4-Dimethylphenol 2,4-Dinitrophenol	105-67-9 51-28-5	T	ug/L ug/L	97 100	GW-2 GW-2	< 0.94 U < 4.7 U		< 1 U < 2 UJ		
2,4-Dinitrotoluene	121-14-2	Ť	ug/L	0.18	GW-2	< 0.94 U		< 1 U	-	
2,6-Dinitrotoluene	606-20-2	T	ug/L			< 0.94 U		< 1 U		
2-Chloronaphthalene 2-Chlorophenol	91-58-7 95-57-8	T	ug/L ug/L	100 17	GW-2 GW-2	< 0.94 U < 0.94 U		< 0.2 U < 0.2 U	<u></u>	
2-Methylphenol	95-57-8 95-48-7	T	ug/L ug/L	11	GVV-Z	< 0.94 U < 0.94 U		< 0.2 U		
2-Nitroaniline	88-74-4	Т	ug/L			< 0.94 U		< 1 U		
2-Nitrophenol	88-75-5	T	ug/L			< 0.94 U		< 1 U		
3 & 4 Methylphenol 3,3'-Dichlorobenzidine	65794-96-9 91-94-1	T	ug/L ug/L	0.0033	GW-2	< 0.94 U < 0.94 U		 <1U		
3-Nitroaniline	99-09-2	Т	ug/L	0.0000		< 0.94 U		< 1 U		
4,6-Dinitro-2-methylphenol	534-52-1	T	ug/L	7	GW-2	< 4.7 U		< 2 U		
4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol	101-55-3 59-50-7	T	ug/L	36	GW-2	< 0.94 U < 0.94 U		< 0.2 U < 1 U		
4-Chloroaniline	106-47-8	+ +	ug/L ug/L	30	GW-2	< 0.94 U		<1UJ		
4-Chlorophenyl phenyl ether	7005-72-3	Т	ug/L			< 0.94 U		< 0.2 UJ		
4-Methylphenol	106-44-5	T	ug/L					< 0.2 U		
4-Nitroaniline 4-Nitrophenol	100-01-6 100-02-7	T	ug/L ug/L			< 0.94 U < 4.7 U		< 1 U < 1 U	 	
Aniline	62-53-3	Ť	ug/L			< 4.7 U				
Benzidine	92-87-5	Т	ug/L	2.3E-05	GW-2	< 4.7 U				
Benzoic acid Benzyl alcohol	65-85-0 100-51-6	T	ug/L ug/L			 < 0.94 U		< 2 U 0.2	<u></u>	
Benzyl butyl phthalate	85-68-7	'	ug/L ug/L	0.013	GW-2	< 0.94 U		0.2 0.2 J		
Bis(2-chloro-1-methylethyl) ether	108-60-1	T	ug/L	900	GW-2			< 0.2 U		
Bis(2-chloroethoxy)methane	111-91-1	T	ug/L	0.00	014.0	< 0.94 U		< 0.2 U		
Bis(2-chloroethyl) ether bis(2-Chloroisopropyl)ether	111-44-4 39638-32-9	T	ug/L ug/L	0.06	GW-2	< 0.94 U < 0.94 U		< 0.2 U		
Bis(2-ethylhexyl) adipate	103-23-1	Ť	ug/L			< 0.94 U				
Bis(2-ethylhexyl) phthalate	117-81-7	T	ug/L	0.046	GW-2	1.9		6		
Carbazole Dibenzofuran	86-74-8 132-64-9	T	ug/L ug/L			< 0.94 U < 0.94 U		< 0.2 U < 0.1 U	<u></u> 	
Diethyl phthalate	84-66-2	Ť	ug/L ug/L	200	GW-2	< 0.94 U		< 0.1 U		
Dimethyl phthalate	131-11-3	Т	ug/L	600	GW-2	17		0.2		
Di-n-butyl phthalate	84-74-2	T	ug/L	8	GW-2	< 0.94 U		0.6		
Di-n-octyl phthalate Hexachlorobenzene	117-84-0 118-74-1	T	ug/L ug/L	5E-06	GW-2	< 0.94 U < 0.94 U		0.9 < 0.2 U	 	
Hexachlorobutadiene	87-68-3	Ť	ug/L	0.01	GW-2	< 0.94 U		< 0.2 U		
Hexachlorocyclopentadiene	77-47-4	T	ug/L	1	GW-2	< 0.94 U		< 1 UJ		
Hexachloroethane Isophorone	67-72-1 78-59-1	T	ug/L ug/L	0.02 110	GW-2 GW-2	< 0.94 U < 0.94 U		< 0.2 U < 0.2 U		
Nitrobenzene	98-95-3	Ť	ug/L	100	GW-2 GW-2	< 0.94 U		< 0.2 U		
N-Nitrosodimethylamine	62-75-9	Ţ	ug/L	0.34	GW-2	< 0.94 U				
N-Nitroso-di-n-propylamine	621-64-7 86-30-6	T	ug/L	0.058 0.69	GW-2	< 0.94 U < 0.94 U		< 0.2 U < 0.2 U	<u></u>	
N-Nitrosodiphenylamine Pentachlorophenol	86-30-6 87-86-5	T	ug/L ug/L	0.69	GW-2 GW-2	< 0.94 U < 4.7 U		< 0.2 U		
Perylene	198-55-0	Т	ug/L			-				
Phenol	108-95-2	T	ug/L	70000	GW-2	< 0.94 U		0.1 J		
Pyridine Total Petroleum Hydrocarbons	110-86-1	T	ug/L			< 0.94 U				
Gasoline Range Organics	TPH-GRO	Т	ug/L	800	GW-2			< 100 U		
Diesel Range Organics	TPH-DRO	T	ug/L	500	GW-2			397		
Motor Oil Range Organics Diesel and Oil Extended Range Organics	TPH-ORO TPH-EXT	T	ug/L ug/L	500 500	GW-2 GW-2			1830 2230	<u></u>	
Volatile Organic Compounds	IFN-EAI		ug/L	300	GVV-Z			2230		
1,2,4-Trichlorobenzene	120-82-1	Т	ug/L	0.037	GW-2	< 0.94 U		< 0.2 U		
1,2-Dichlorobenzene	95-50-1	T	ug/L	800	GW-2	< 0.94 U		< 0.2 U		
1,3-Dichlorobenzene 1,4-Dichlorobenzene	541-73-1 106-46-7	T	ug/L ug/L	2 59.8	GW-2 GW-2	< 0.94 U < 0.94 U		< 0.2 U < 0.2 U	<u></u>	
Conventionals	100-40-7		ug/L	38.0	Gvv-2	- 0.84 U		, v.z v		
Alkalinity as Bicarbonate	ALKHCO3	Т	mg/L as CaCO3							
Alkalinity as Carbonate Alkalinity, Total	ALKCO3 ALKT	T	mg/L as CaCO3			9000				
Alkalinity, Total Chloride	16887-00-6	T	ug/L ug/L			9000			 	
Dissolved Organic Carbon	DOC	Ť	ug/L		†					

					Location Date	CB-06 05/27/2021	SWRX-MID 04/12/2017	SWRX-MID 05/16/2017	SWRX-MID 06/08/2017
	1	1	1	SPM RI STORMWATER SLS	Sample	CB-06-SW-210527	SPM-SWRX-MID-SW-20170412	SPM-SWRX-MID-SW-20170516	SPM-SWRX-MID-SW-20170608
Analyte	CAS RN	Fraction	Unit	2022.02	Screening Level Source				
Total PAHs (ND=0)	T-PAH	Т	ug/L		•	0.172 J			0.277
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	T	ug/L	0.00969	GW-2	0.0106 J			0.0255
Total cPAHs TEQ (ND = 1/2 RDL) Total cPAHs TEQ (ND=1)	T-cPAH-1/2U T-cPAH-1U	+ +	ug/L	0.00969	GW-2	0.0106 J			0.0260
Semivolatile Organic Compounds	I-CFAH-10		ug/L						
1,2-Dinitrobenzene	528-29-0	Т	ug/L						< 0.99 U
1,2-Diphenylhydrazine	122-66-7	T	ug/L	0.02	GW-2				< 0.99 U
1,3-Dinitrobenzene	99-65-0		ug/L						< 0.99 U
1,4-Dinitrobenzene 2,3,4,6-Tetrachlorophenol	100-25-4 58-90-2	T	ug/L ug/L			 	= =		< 0.99 U < 0.99 U
2.3.5.6-Tetrachlorophenol	935-95-5	T T	ug/L			 			< 0.99 U
2,3-Dichloroaniline	608-27-5	Ť	ug/L						< 0.99 U
2,4,5-Trichlorophenol	95-95-4	T	ug/L	600	GW-2	< 1 UJ			< 0.99 U
2,4,6-Trichlorophenol	88-06-2 120-83-2	T T	ug/L	0.28 10	GW-2 GW-2	< 1 UJ < 1 UJ			< 0.99 U < 0.99 U
2,4-Dichlorophenol 2,4-Dimethylphenol	105-67-9	<u> </u>	ug/L ug/L	97	GW-2	< 1 UJ			< 0.99 U
2,4-Dinitrophenol	51-28-5	Ť	ug/L	100	GW-2	< 2 UJ			< 4.9 U
2,4-Dinitrotoluene	121-14-2	T	ug/L	0.18	GW-2	< 1 U			< 0.99 U
2,6-Dinitrotoluene	606-20-2	T T	ug/L	100	0111.0	< 1 U			< 0.99 U
2-Chlorophenol	91-58-7 95-57-8	T	ug/L	100 17	GW-2 GW-2	< 0.01 U < 0.2 UJ			< 0.99 U < 0.99 U
2-Chlorophenol 2-Methylphenol	95-57-8	<u> </u>	ug/L ug/L	11	GVV-2	< 0.2 UJ			< 0.99 U
2-Nitroaniline	88-74-4	Ť	ug/L			< 1 U	-		< 0.99 U
2-Nitrophenol	88-75-5	Т	ug/L			< 1 UJ			< 0.99 U
3 & 4 Methylphenol	65794-96-9	T	ug/L	0.0000	0141.0				< 0.99 U
3,3'-Dichlorobenzidine	91-94-1 99-09-2	T	ug/L	0.0033	GW-2	< 1 U < 1 U			< 0.99 U < 0.99 U
3-Nitroaniline 4,6-Dinitro-2-methylphenol	534-52-1	T	ug/L ug/L	7	GW-2	< 1 U < 2 UJ			< 0.99 U < 4.9 U
4-Bromophenyl phenyl ether	101-55-3	Ť	ug/L	·	J.: 2	< 0.2 U			< 0.99 U
4-Chloro-3-methylphenol	59-50-7	Т	ug/L	36	GW-2	< 1 UJ			< 0.99 U
4-Chloroaniline	106-47-8		ug/L			< 1 UJ			< 0.99 U
4-Chlorophenyl phenyl ether 4-Methylphenol	7005-72-3 106-44-5	T	ug/L ug/L			< 0.2 U 0.03 J	-		< 0.99 U
4-Nitroaniline	100-44-5	†	ug/L			< 1 U			 < 0.99 U
4-Nitrophenol	100-02-7	Ť	ug/L			< 1 UJ			< 4.9 U
Aniline	62-53-3	T	ug/L						< 4.9 U
Benzidine	92-87-5		ug/L	2.3E-05	GW-2				< 4.9 U
Benzoic acid Benzyl alcohol	65-85-0 100-51-6	T	ug/L ug/L			0.6 J 0.09 J			1.1
Benzyl butyl phthalate	85-68-7	†	ug/L	0.013	GW-2	0.09 J 0.2 J			1.1 < 0.99 U
Bis(2-chloro-1-methylethyl) ether	108-60-1	Ť	ug/L	900	GW-2	< 0.2 U			
Bis(2-chloroethoxy)methane	111-91-1	T	ug/L			< 0.2 U			< 0.99 U
Bis(2-chloroethyl) ether	111-44-4	T	ug/L	0.06	GW-2	< 0.2 U			< 0.99 U
bis(2-Chloroisopropyl)ether Bis(2-ethylhexyl) adipate	39638-32-9 103-23-1	T	ug/L ug/L						< 0.99 U < 0.99 U
Bis(2-ethylhexyl) phthalate	117-81-7	Ť	ug/L	0.046	GW-2	21.7			2.9
Carbazole	86-74-8	Т	ug/L			< 0.01 U			< 0.99 U
Dibenzofuran	132-64-9	T	ug/L			0.002 J			< 0.99 U
Diethyl phthalate	84-66-2	T	ug/L	200	GW-2	< 0.2 U		-	< 0.99 U
Dimethyl phthalate Di-n-butyl phthalate	131-11-3 84-74-2	T	ug/L ug/L	600 8	GW-2 GW-2	0.2 0.1 J			1 < 0.99 U
Di-n-octyl phthalate	117-84-0	Ť	ug/L	0	GVV-2	0.5			< 0.99 U
Hexachlorobenzene	118-74-1	Т	ug/L	5E-06	GW-2	< 0.2 U			< 0.99 U
Hexachlorobutadiene	87-68-3	T	ug/L	0.01	GW-2	< 0.2 U			< 0.99 U
Hexachlorocyclopentadiene Hexachlorocythana	77-47-4 67 72 1	T	ug/L	1 0.02	GW-2	<1U			< 0.99 U
Hexachloroethane Isophorone	67-72-1 78-59-1	T	ug/L ug/L	0.02 110	GW-2 GW-2	< 0.2 U < 0.2 U			< 0.99 U < 0.99 U
Nitrobenzene	98-95-3	Ť	ug/L	100	GW-2	< 0.2 U	-		< 0.99 U
N-Nitrosodimethylamine	62-75-9	Т	ug/L	0.34	GW-2				< 0.99 U
N-Nitroso-di-n-propylamine	621-64-7	T	ug/L	0.058	GW-2	< 0.2 U			< 0.99 U
N-Nitrosodiphenylamine Pentachlorophenol	86-30-6 87-86-5	T	ug/L	0.69 0.002	GW-2 GW-2	< 0.2 U 0.5 J			< 0.99 U < 4.9 U
Pentacniorophenoi Perylene	198-55-0	T	ug/L ug/L	0.002	GVV-Z	< 0.01 U			< 4.9 U
Phenol	108-95-2	Ť	ug/L	70000	GW-2	0.1 J			 < 0.99 U
Pyridine	110-86-1	Т	ug/L						< 0.99 U
Total Petroleum Hydrocarbons	TDI: 000	_		000	01/1.5	. 400 **			
Gasoline Range Organics Diesel Range Organics	TPH-GRO TPH-DRO	T	ug/L	800 500	GW-2 GW-2	< 100 U			
Motor Oil Range Organics	TPH-DRO TPH-ORO	T	ug/L ug/L	500	GW-2 GW-2	104 449			
Diesel and Oil Extended Range Organics	TPH-EXT	Ť	ug/L	500	GW-2	553			
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	120-82-1	T	ug/L	0.037	GW-2	< 0.2 U			< 0.99 U
1,2-Dichlorobenzene	95-50-1	T	ug/L	800	GW-2	< 0.2 U			< 0.99 U
1,3-Dichlorobenzene 1,4-Dichlorobenzene	541-73-1 106-46-7	T	ug/L ug/L	<u>2</u> 59.8	GW-2 GW-2	< 0.2 U < 0.2 U			< 0.99 U < 0.99 U
Conventionals	100-40-7		ug/L		O V V - Z	- 0.2 0			- 0.00 0
Alkalinity as Bicarbonate	ALKHCO3	Т	mg/L as CaCO3						
Alkalinity as Carbonate	ALKCO3	T	mg/L as CaCO3						
Alkalinity, Total Chloride	ALKT 16887-00-6	T	ug/L						13000
Dissolved Organic Carbon	DOC	+ +	ug/L ug/L						
			>1				•	·	•

Aspect Consulting
6/22/2022
V:\190293 South Park Marina\Deliverables\R\R\P Addendum\Apps\App B Analytical Results Tables and Figures\TB.4 Stormwater Table_v2

					Location Date Sample	SWRX-MID 09/19/2017 SPM-SWRX-MID-SW-20170919	SWRX-POST 12/01/2016 SPM-SWRX-POST-SW-20161201	SWRX-POST 01/01/2017 SPM-SWRX-POST-SW-20170101	SWRX-POST 04/12/2017 SPM-SWRX-POST-SW-20170412
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source				
Total PAHs (ND=0)	T-PAH	T	ug/L	_					
Total cPAHs TEQ (ND = 0) Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-0U T-cPAH-1/2U	T	ug/L ug/L	0.00969 0.00969	GW-2 GW-2		 		
Total cPAHs TEQ (ND=1)	T-cPAH-1U	†	ug/L	0.00909	GVV-2	 			
Semivolatile Organic Compounds		1 - 1							
1,2-Dinitrobenzene 1,2-Diphenylhydrazine	528-29-0 122-66-7	T	ug/L ug/L	0.02	GW-2	 			
1,3-Dinitrobenzene	99-65-0	Ť	ug/L	0.02	SW Z				
1,4-Dinitrobenzene	100-25-4	Ţ	ug/L						
2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol	58-90-2 935-95-5	T	ug/L ug/L						
2,3-Dichloroaniline	608-27-5	Ť	ug/L						
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	95-95-4	T	ug/L	600	GW-2	<u></u>			
2,4-Dichlorophenol	88-06-2 120-83-2	+ +	ug/L ug/L	0.28 10	GW-2 GW-2	 			
2,4-Dimethylphenol	105-67-9	Ť	ug/L	97	GW-2				
2,4-Dinitrophenol	51-28-5 121-14-2	T	ug/L	100 0.18	GW-2				
2,4-Dinitrotoluene 2,6-Dinitrotoluene	606-20-2	 	ug/L ug/L	0.16	GW-2				
2-Chloronaphthalene	91-58-7	Ť	ug/L	100	GW-2				
2-Chlorophenol	95-57-8 95-48-7	T	ug/L	17	GW-2		 		
2-Methylphenol 2-Nitroaniline	95-48-7 88-74-4	T	ug/L ug/L				 		
2-Nitrophenol	88-75-5	Т	ug/L						
3 & 4 Methylphenol 3,3'-Dichlorobenzidine	65794-96-9 91-94-1	T	ug/L ug/L	0.0033	GW-2				
3-Nitroaniline	99-09-2	† †	ug/L ug/L	0.0033	JVV-2		 		
4,6-Dinitro-2-methylphenol	534-52-1	Ţ	ug/L	7	GW-2				
4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol	101-55-3 59-50-7	T	ug/L	36	GW-2				
4-Chloroaniline	106-47-8	+ +	ug/L ug/L	36	GW-2	 			
4-Chlorophenyl phenyl ether	7005-72-3	Т	ug/L						
4-Methylphenol 4-Nitroaniline	106-44-5 100-01-6	T	ug/L				 		
4-Nitrophenol	100-01-0	† †	ug/L ug/L						
Aniline	62-53-3	Т	ug/L						
Benzidine Benzid gold	92-87-5 65-85-0	T	ug/L	2.3E-05	GW-2				
Benzoic acid Benzyl alcohol	100-51-6	† †	ug/L ug/L				 		
Benzyl butyl phthalate	85-68-7	Т	ug/L	0.013	GW-2				
Bis(2-chloro-1-methylethyl) ether Bis(2-chloroethoxy)methane	108-60-1 111-91-1	T	ug/L ug/L	900	GW-2			 	
Bis(2-chloroethyl) ether	111-44-4	Ť	ug/L	0.06	GW-2		-		
bis(2-Chloroisopropyl)ether	39638-32-9	T	ug/L						
Bis(2-ethylhexyl) adipate Bis(2-ethylhexyl) phthalate	103-23-1 117-81-7	T	ug/L ug/L	0.046	GW-2				
Carbazole	86-74-8	Ť	ug/L	0.070	3W 2				
Dibenzofuran	132-64-9	Ţ	ug/L	000	OW 0				
Diethyl phthalate Dimethyl phthalate	84-66-2 131-11-3	T	ug/L ug/L	200 600	GW-2 GW-2		 		
Di-n-butyl phthalate	84-74-2	T	ug/L	8	GW-2				
Di-n-octyl phthalate	117-84-0	T	ug/L	55.00	CIM O				
Hexachlorobenzene Hexachlorobutadiene	118-74-1 87-68-3	T	ug/L ug/L	5E-06 0.01	GW-2 GW-2	 			
Hexachlorocyclopentadiene	77-47-4	Ť	ug/L	1	GW-2				
Hexachloroethane	67-72-1 78-59-1	T	ug/L	0.02 110	GW-2 GW-2				
Isophorone Nitrobenzene	78-59-1 98-95-3	T	ug/L ug/L	110	GW-2 GW-2				
N-Nitrosodimethylamine	62-75-9	Ť	ug/L	0.34	GW-2				
N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	621-64-7 86-30-6	T	ug/L ug/L	0.058 0.69	GW-2 GW-2		<u></u>		
Pentachlorophenol	87-86-5	+ +	ug/L ug/L	0.002	GW-2		 		
Perylene	198-55-0	Т	ug/L						
Phenol Pyridine	108-95-2 110-86-1	T	ug/L	70000	GW-2		 		
Total Petroleum Hydrocarbons	110-00-1		ug/L	·					
Gasoline Range Organics	TPH-GRO	Ţ	ug/L	800	GW-2				
Diesel Range Organics Motor Oil Range Organics	TPH-DRO TPH-ORO	T	ug/L ug/L	500 500	GW-2 GW-2		 	 	
Diesel and Oil Extended Range Organics	TPH-ORO TPH-EXT	T	ug/L ug/L	500	GW-2				
Volatile Organic Compounds									
1,2,4-Trichlorobenzene 1,2-Dichlorobenzene	120-82-1 95-50-1	T	ug/L ug/L	0.037 800	GW-2 GW-2	 			
1,3-Dichlorobenzene	541-73-1	Ť	ug/L	2	GW-2				
1,4-Dichlorobenzene	106-46-7	Т	ug/L	59.8	GW-2				
Conventionals Alkalinity as Bicarbonate	ALKHCO3	TTF	mg/L as CaCO3						
Alkalinity as Carbonate	ALKCO3		mg/L as CaCO3			 			
Alkalinity, Total	ALKT	T	ug/L						
Chloride	16887-00-6	T	ug/L		İ				

					Location Date Sample	SWRX-POST 05/16/2017 SPM-SWRX-POST-SW-20170516	SWRX-POST 06/08/2017 SPM-SWRX-POST-SW-20170608	SWRX-POST 09/19/2017 SPM-SWRX-POST-SW-20170919	SWRX-POST 10/18/2017 SPM-NPDES-SW-20171018
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source				
Total PAHs (ND=0)	T-PAH	T	ug/L	_2022.02	Goldening Edvar Godina		< 0.094 U		
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	T	ug/L	0.00969	GW-2	-	< 0 U		
Total cPAHs TEQ (ND = 1/2 RDL) Total cPAHs TEQ (ND=1)	T-cPAH-1/2U T-cPAH-1U	T	ug/L ug/L	0.00969	GW-2		< 0.007097 U		
Semivolatile Organic Compounds	1 0171110	' '	ug/L						
1,2-Dinitrobenzene	528-29-0	T	ug/L	0.00	0)4/ 0	-	< 0.94 U		
1,2-Diphenylhydrazine 1,3-Dinitrobenzene	122-66-7 99-65-0	T	ug/L ug/L	0.02	GW-2		< 0.94 U < 0.94 U		
1,4-Dinitrobenzene	100-25-4	Ť	ug/L			-	< 0.94 U		
2,3,4,6-Tetrachlorophenol	58-90-2	Т	ug/L				< 0.94 U		
2,3,5,6-Tetrachlorophenol 2,3-Dichloroaniline	935-95-5 608-27-5	T	ug/L ug/L			 	< 0.94 U < 0.94 U		
2,4,5-Trichlorophenol	95-95-4	T	ug/L	600	GW-2		< 0.94 U		
2,4,6-Trichlorophenol	88-06-2	T	ug/L	0.28	GW-2	-	< 0.94 U		
2,4-Dichlorophenol	120-83-2 105-67-9	T	ug/L	10 97	GW-2		< 0.94 U		
2,4-Dimethylphenol 2,4-Dinitrophenol	51-28-5	Ť	ug/L ug/L	100	GW-2 GW-2		< 0.94 U < 4.7 U		
2,4-Dinitrotoluene	121-14-2	Ť	ug/L	0.18	GW-2	=	< 0.94 U		
2,6-Dinitrotoluene	606-20-2	Ţ	ug/L	400	OW C		< 0.94 U		
2-Chloronaphthalene 2-Chlorophenol	91-58-7 95-57-8	T	ug/L ug/L	100 17	GW-2 GW-2		< 0.94 U < 0.94 U		
2-Methylphenol	95-37-6 95-48-7	Ť	ug/L ug/L	11	GVV-Z		< 0.94 U		
2-Nitroaniline	88-74-4	Ţ	ug/L				< 0.94 U		
2-Nitrophenol	88-75-5	T	ug/L			<u></u>	< 0.94 U < 0.94 U		
3 & 4 Methylphenol 3,3'-Dichlorobenzidine	65794-96-9 91-94-1	T	ug/L ug/L	0.0033	GW-2		< 0.94 U		
3-Nitroaniline	99-09-2	Ť	ug/L				< 0.94 U		
4,6-Dinitro-2-methylphenol	534-52-1	T	ug/L	7	GW-2	-	< 4.7 U		
4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol	101-55-3 59-50-7	T	ug/L ug/L	36	GW-2		< 0.94 U < 0.94 U		
4-Chloroaniline	106-47-8	Ť	ug/L	30	GW-2		< 0.94 U		
4-Chlorophenyl phenyl ether	7005-72-3	T	ug/L				< 0.94 U		
4-Methylphenol	106-44-5 100-01-6	T	ug/L			<u></u>	 < 0.94 U		
4-Nitroaniline 4-Nitrophenol	100-01-6	+	ug/L ug/L				< 0.94 U < 4.7 U		
Aniline	62-53-3	Т	ug/L			-	< 4.7 U		
Benzidine	92-87-5	T	ug/L	2.3E-05	GW-2	-	< 4.7 U		
Benzoic acid Benzyl alcohol	65-85-0 100-51-6	T	ug/L ug/L				 < 0.94 U		
Benzyl butyl phthalate	85-68-7	T	ug/L	0.013	GW-2		< 0.94 U		
Bis(2-chloro-1-methylethyl) ether	108-60-1	T	ug/L	900	GW-2				
Bis(2-chloroethoxy)methane	111-91-1 111-44-4	T	ug/L	0.06	GW-2	<u></u>	< 0.94 U < 0.94 U		
Bis(2-chloroethyl) ether bis(2-Chloroisopropyl)ether	39638-32-9	Ť	ug/L ug/L	0.06	GW-2		< 0.94 U		
Bis(2-ethylhexyl) adipate	103-23-1	Ť	ug/L			-	< 0.94 U		
Bis(2-ethylhexyl) phthalate	117-81-7	T	ug/L	0.046	GW-2	-	< 0.94 U		
Carbazole Dibenzofuran	86-74-8 132-64-9	T	ug/L ug/L				< 0.94 U < 0.94 U		
Diethyl phthalate	84-66-2	Ť	ug/L	200	GW-2		< 0.94 U		
Dimethyl phthalate	131-11-3	T	ug/L	600	GW-2		< 0.94 U		
Di-n-butyl phthalate Di-n-octyl phthalate	84-74-2 117-84-0	T	ug/L	8	GW-2	<u></u>	< 0.94 U < 0.94 U		
Hexachlorobenzene	118-74-1	Ť	ug/L ug/L	5E-06	GW-2	-	< 0.94 U		
Hexachlorobutadiene	87-68-3	Ť	ug/L	0.01	GW-2	-	< 0.94 U		
Hexachlorocyclopentadiene	77-47-4	Ţ	ug/L	1	GW-2		< 0.94 U		
Hexachloroethane Isophorone	67-72-1 78-59-1	T	ug/L ug/L	0.02 110	GW-2 GW-2		< 0.94 U < 0.94 U		
Nitrobenzene	98-95-3	T	ug/L	100	GW-2		< 0.94 U		
N-Nitrosodimethylamine	62-75-9	T	ug/L	0.34	GW-2		< 0.94 U		
N-Nitroso-di-n-propylamine	621-64-7 86-30-6	T	ug/L	0.058 0.69	GW-2 GW-2	 	< 0.94 U < 0.94 U		
N-Nitrosodiphenylamine Pentachlorophenol	86-30-6 87-86-5	T	ug/L ug/L	0.69	GW-2 GW-2		< 0.94 U < 4.7 U		
Perylene	198-55-0	Т	ug/L						
Phenol	108-95-2	Ţ	ug/L	70000	GW-2		< 0.94 U		
Pyridine Total Petroleum Hydrocarbons	110-86-1	<u> </u>	ug/L				< 0.94 U		
Gasoline Range Organics	TPH-GRO	Т	ug/L	800	GW-2				
Diesel Range Organics	TPH-DRO	T	ug/L	500	GW-2				
Motor Oil Range Organics Diesel and Oil Extended Range Organics	TPH-ORO TPH-EXT	T	ug/L	500 500	GW-2 GW-2				
Volatile Organic Compounds	IFII-EAI	' '	ug/L	300	GVV-Z		<u></u>	<u></u>	
1,2,4-Trichlorobenzene	120-82-1	Т	ug/L	0.037	GW-2		< 0.94 U		
1,2-Dichlorobenzene	95-50-1	T	ug/L	800	GW-2		< 0.94 U		
1,3-Dichlorobenzene 1,4-Dichlorobenzene	541-73-1 106-46-7	T	ug/L ug/L	2 59.8	GW-2 GW-2	<u></u>	< 0.94 U < 0.94 U		
Conventionals	100-40-7	<u> </u>	ug/L		GVV-Z		1 7 U.34 U		
Alkalinity as Bicarbonate	ALKHCO3		mg/L as CaCO3						
Alkalinity as Carbonate	ALKCO3		mg/L as CaCO3			-	47000		
Alkalinity, Total	ALKT 16887-00-6	T	ug/L ug/L				17000		
Chloride									

					Location Date Sample	SWRX-POST 10/18/2017 SPM-SWRX-POST-SW-20171018	SWRX-POST 11/03/2017 SPM-NPDES-SW-20171103	SWRX-POST 11/03/2017 SPM-SWRX-POST-SW-20171103	SWRX-POST 01/05/2018 SPM-NPDES-SW-20180105
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source				
Total PAHs (ND=0)	T-PAH	T	ug/L	_2022.02	Screening Level Source				
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	Т	ug/L	0.00969	GW-2				
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	T	ug/L	0.00969	GW-2				
Total cPAHs TEQ (ND=1) Semivolatile Organic Compounds	T-cPAH-1U	T	ug/L						
1,2-Dinitrobenzene	528-29-0	Т	ug/L						
1,2-Diphenylhydrazine	122-66-7	Т	ug/L	0.02	GW-2	-			
1,3-Dinitrobenzene	99-65-0	T	ug/L						
1,4-Dinitrobenzene	100-25-4	T	ug/L			-			
2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol	58-90-2 935-95-5	+ +	ug/L ug/L			-			
2,3-Dichloroaniline	608-27-5	T	ug/L			-			
2,4,5-Trichlorophenol	95-95-4	Т	ug/L	600	GW-2				
2,4,6-Trichlorophenol	88-06-2 120-83-2	T	ug/L	0.28	GW-2 GW-2	-			
2,4-Dichlorophenol 2,4-Dimethylphenol	120-83-2	+ +	ug/L ug/L	10 97	GW-2				
2,4-Dinitrophenol	51-28-5	Ť	ug/L	100	GW-2	-			
2,4-Dinitrotoluene	121-14-2	Т	ug/L	0.18	GW-2				
2,6-Dinitrotoluene	606-20-2	T	ug/L	100	CW 2	<u></u>			
2-Chloronaphthalene 2-Chlorophenol	91-58-7 95-57-8	T	ug/L ug/L	100 17	GW-2 GW-2	 			
2-Methylphenol	95-48-7	 	ug/L ug/L	17	GVV-Z	-			
2-Nitroaniline	88-74-4	Ť	ug/L			-			
2-Nitrophenol	88-75-5	T	ug/L						
3 & 4 Methylphenol	65794-96-9	T	ug/L	0.0033	CW 2	-			
3,3'-Dichlorobenzidine 3-Nitroaniline	91-94-1 99-09-2	 	ug/L ug/L	0.0033	GW-2				
4,6-Dinitro-2-methylphenol	534-52-1	Ť	ug/L	7	GW-2				
4-Bromophenyl phenyl ether	101-55-3	Т	ug/L						
4-Chloro-3-methylphenol	59-50-7	T	ug/L	36	GW-2				
4-Chloroaniline	106-47-8 7005-72-3	T	ug/L			-			
4-Chlorophenyl phenyl ether 4-Methylphenol	106-44-5	+ +	ug/L ug/L			 			
4-Nitroaniline	100-01-6	Ť	ug/L						
4-Nitrophenol	100-02-7	Т	ug/L						
Aniline	62-53-3	T	ug/L	0.05.05	0144.0	-			
Benzidine Benzoic acid	92-87-5 65-85-0	T	ug/L ug/L	2.3E-05	GW-2				
Benzyl alcohol	100-51-6	†	ug/L			-			
Benzyl butyl phthalate	85-68-7	Т	ug/L	0.013	GW-2				
Bis(2-chloro-1-methylethyl) ether	108-60-1	T	ug/L	900	GW-2	-			
Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether	111-91-1 111-44-4	T	ug/L ug/L	0.06	GW-2				
bis(2-Chloroisopropyl)ether	39638-32-9	+ +	ug/L ug/L	0.06	GW-2				
Bis(2-ethylhexyl) adipate	103-23-1	T	ug/L			-			
Bis(2-ethylhexyl) phthalate	117-81-7	Т	ug/L	0.046	GW-2				
Carbazole	86-74-8	T	ug/L			-			
Dibenzofuran Diethyl phthalate	132-64-9 84-66-2	+ +	ug/L ug/L	200	GW-2				
Dimethyl phthalate	131-11-3	Ť	ug/L	600	GW-2				
Di-n-butyl phthalate	84-74-2	Т	ug/L	8	GW-2				
Di-n-octyl phthalate	117-84-0	T	ug/L	55.00	014/ 5	-			
Hexachlorobenzene Hexachlorobutadiene	118-74-1 87-68-3	T	ug/L ug/L	5E-06 0.01	GW-2 GW-2	 			
Hexachlorocyclopentadiene	77-47-4	+	ug/L ug/L	1	GW-2	-			
Hexachloroethane	67-72-1	T	ug/L	0.02	GW-2				
Isophorone	78-59-1	Ţ	ug/L	110	GW-2				
Nitrobenzene	98-95-3	T	ug/L	100	GW-2				
N-Nitrosodimethylamine N-Nitroso-di-n-propylamine	62-75-9 621-64-7	T	ug/L ug/L	0.34 0.058	GW-2 GW-2	 			
N-Nitrosodiphenylamine	86-30-6	Ť	ug/L ug/L	0.69	GW-2				
Pentachlorophenol	87-86-5	Ť	ug/L	0.002	GW-2				
Perylene	198-55-0	Ţ	ug/L						
Phenol Pyriding	108-95-2 110-86-1	T	ug/L	70000	GW-2				
Pyridine Total Petroleum Hydrocarbons	110-00-1		ug/L						
Gasoline Range Organics	TPH-GRO	Т	ug/L	800	GW-2				
Diesel Range Organics	TPH-DRO	Т	ug/L	500	GW-2				
Motor Oil Range Organics	TPH-ORO	T	ug/L	500	GW-2	<u></u>			
Diesel and Oil Extended Range Organics Volatile Organic Compounds	TPH-EXT	T	ug/L	500	GW-2				
1,2,4-Trichlorobenzene	120-82-1	Т	ug/L	0.037	GW-2				
1,2-Dichlorobenzene	95-50-1	Ť	ug/L	800	GW-2	_			
1,3-Dichlorobenzene	541-73-1	Ţ	ug/L	2	GW-2				
1,4-Dichlorobenzene Conventionals	106-46-7	Т	ug/L	59.8	GW-2				
Alkalinity as Bicarbonate	ALKHCO3	Т	mg/L as CaCO3	1				1	
Alkalinity as Carbonate Alkalinity as Carbonate	ALKICO3	Ť	mg/L as CaCO3						
Alkalinity, Total	ALKT	T	ug/L			-			
Chloride	16887-00-6	Ţ	ug/L						
Dissolved Organic Carbon	DOC	I T	ug/L	ı	I		I		

					Location Date Sample	SWRX-POST 01/23/2018 SPM-NPDES-SW-20180123	SWRX-POST 04/10/2018 SPM-NPDES-SW-20180410	SWRX-POST 10/05/2018 SPM-NPDES-SW-20181005	SWRX-POST 11/02/2018 SPM-NPDES-SW-20181102	SWRX-POST 01/03/2019 SPM-NPDES-SW-20190103
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Total PAHs (ND=0)	T-PAH	Т	ug/L		-					
Total cPAHs TEQ (ND = 0) Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-0U T-cPAH-1/2U	T	ug/L ug/L	0.00969 0.00969	GW-2 GW-2	 		 		
Total cPAHs TEQ (ND=1)	T-cPAH-1U	T	ug/L	0.00909	GW-2					
Semivolatile Organic Compounds	_									
1,2-Dinitrobenzene	528-29-0 122-66-7	T	ug/L	0.02	GW-2					
1,2-Diphenylhydrazine 1,3-Dinitrobenzene	99-65-0	T	ug/L ug/L	0.02	GW-2					
1,4-Dinitrobenzene	100-25-4	T	ug/L					-		
2,3,4,6-Tetrachlorophenol	58-90-2	T	ug/L					-		
2,3,5,6-Tetrachlorophenol 2,3-Dichloroaniline	935-95-5 608-27-5	T	ug/L ug/L							
2,4,5-Trichlorophenol	95-95-4	Ť	ug/L	600	GW-2					
2,4,6-Trichlorophenol	88-06-2	Т	ug/L	0.28	GW-2					
2,4-Dichlorophenol	120-83-2	T	ug/L	10	GW-2					
2,4-Dimethylphenol 2,4-Dinitrophenol	105-67-9 51-28-5	T	ug/L ug/L	97 100	GW-2 GW-2			 		
2,4-Dinitrotoluene	121-14-2	Ť	ug/L	0.18	GW-2					
2,6-Dinitrotoluene	606-20-2	Ţ	ug/L							
2-Chloronaphthalene	91-58-7	T	ug/L	100	GW-2					
2-Chlorophenol 2-Methylphenol	95-57-8 95-48-7	T	ug/L ug/L	17	GW-2					
2-Nitroaniline	88-74-4	T	ug/L							
2-Nitrophenol	88-75-5	T	ug/L							
3 & 4 Methylphenol	65794-96-9	T	ug/L	0.0022	CW 2					
3,3'-Dichlorobenzidine 3-Nitroaniline	91-94-1 99-09-2	T	ug/L ug/L	0.0033	GW-2					
4,6-Dinitro-2-methylphenol	534-52-1	T	ug/L	7	GW-2					
4-Bromophenyl phenyl ether	101-55-3	Т	ug/L							
4-Chloro-3-methylphenol	59-50-7	Ţ	ug/L	36	GW-2					
4-Chlorophenyl phenyl ether	106-47-8 7005-72-3	T	ug/L ug/L							
4-Methylphenol	106-44-5	Ť	ug/L							
4-Nitroaniline	100-01-6	Т	ug/L							
4-Nitrophenol	100-02-7	T	ug/L							
Aniline Benzidine	62-53-3 92-87-5	T	ug/L ug/L	2.3E-05	GW-2					
Benzoic acid	65-85-0	Ť	ug/L	2.02 00	J			-		
Benzyl alcohol	100-51-6	T	ug/L					-		
Benzyl butyl phthalate Bis(2-chloro-1-methylethyl) ether	85-68-7 108-60-1	T	ug/L ug/L	0.013 900	GW-2 GW-2					
Bis(2-chloroethoxy)methane	111-91-1	Ť	ug/L	900	GW-2					
Bis(2-chloroethyl) ether	111-44-4	Т	ug/L	0.06	GW-2					
bis(2-Chloroisopropyl)ether	39638-32-9	T	ug/L							
Bis(2-ethylhexyl) adipate Bis(2-ethylhexyl) phthalate	103-23-1 117-81-7	T	ug/L ug/L	0.046	GW-2			 		
Carbazole	86-74-8	Ť	ug/L	0.040	GW Z					
Dibenzofuran	132-64-9	Т	ug/L							
Diethyl phthalate	84-66-2 131-11-3	T	ug/L	200	GW-2					
Dimethyl phthalate Di-n-butyl phthalate	84-74-2	T	ug/L ug/L	600	GW-2 GW-2			 		
Di-n-octyl phthalate	117-84-0	T	ug/L		J./ L					
Hexachlorobenzene	118-74-1	Ţ	ug/L	5E-06	GW-2					
Hexachlorocyclopentadiene Hexachlorocyclopentadiene	87-68-3 77-47-4	T	ug/L ug/L	0.01	GW-2 GW-2			<u></u>		
Hexachloroethane	67-72-1	Ť	ug/L ug/L	0.02	GW-2 GW-2			 		
Isophorone	78-59-1	Т	ug/L	110	GW-2					
Nitrobenzene	98-95-3	T	ug/L	100	GW-2					
N-Nitrosodimethylamine N-Nitroso-di-n-propylamine	62-75-9 621-64-7	T	ug/L ug/L	0.34 0.058	GW-2 GW-2					
N-Nitrosodiphenylamine	86-30-6	T	ug/L	0.69	GW-2					
Pentachlorophenol	87-86-5	Т	ug/L	0.002	GW-2					
Perylene Phone!	198-55-0	T	ug/L	70000	OW 2					
Phenol Pyridine	108-95-2 110-86-1	T	ug/L ug/L	70000	GW-2					
Total Petroleum Hydrocarbons			ug/L							
Gasoline Range Organics	TPH-GRO	Ţ	ug/L	800	GW-2					
Diesel Range Organics	TPH-DRO TPH-ORO	T	ug/L	500 500	GW-2			<u></u>		
Motor Oil Range Organics Diesel and Oil Extended Range Organics	TPH-URU TPH-EXT	† †	ug/L ug/L	500	GW-2 GW-2			 		
Volatile Organic Compounds			~ g, =						1	
1,2,4-Trichlorobenzene	120-82-1	Ţ	ug/L	0.037	GW-2					
1,2-Dichlorobenzene	95-50-1	T	ug/L	800	GW-2					
1,3-Dichlorobenzene 1,4-Dichlorobenzene	541-73-1 106-46-7	T	ug/L ug/L	2 59.8	GW-2 GW-2					
Conventionals	100-40-1		ug/L	39.0	J11-Z					
Alkalinity as Bicarbonate	ALKHCO3	T	mg/L as CaCO							
Alkalinity as Carbonate	ALKCO3	T	mg/L as CaCO	3					-	
		T	/1		I					
Alkalinity, Total Chloride	ALKT 16887-00-6	T	ug/L ug/L							

					Location Date Sample	SWRX-POST 04/05/2019 SPM-NPDES-SW-20190405	SWRX-POST 05/14/2019 SPM-NPDES-SW-20190514	SWRX-POST 10/16/2019 SPM-NPDES-SW-20191016	SWRX-POST 12/12/2019 SPM-NPDES-SW-20191212	SWRX-POST 01/10/2020 SPM-NPDES-SW-20200110
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Total PAHs (ND=0)	T-PAH	Т	ug/L	_	•	44				40
Total cPAHs TEQ (ND = 0) Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-0U T-cPAH-1/2U	T	ug/L ug/L	0.00969 0.00969	GW-2 GW-2	 		 	 	
Total cPAHs TEQ (ND=1)	T-cPAH-1U	Ť	ug/L	0.00909	GW-Z	-				-
Semivolatile Organic Compounds	1									
1,2-Dinitrobenzene 1,2-Diphenylhydrazine	528-29-0 122-66-7	T	ug/L ug/L	0.02	GW-2	 		 		
1,3-Dinitrobenzene	99-65-0	Ť	ug/L	0.02	GW-Z					
1,4-Dinitrobenzene	100-25-4	T	ug/L							
2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol	58-90-2 935-95-5	T	ug/L ug/L							
2,3-Dichloroaniline	608-27-5	Ť	ug/L							
2,4,5-Trichlorophenol	95-95-4	T	ug/L	600	GW-2					
2,4,6-Trichlorophenol	88-06-2 120-83-2	T	ug/L	0.28 10	GW-2 GW-2					
2,4-Dichlorophenol 2,4-Dimethylphenol	105-67-9	+ +	ug/L ug/L	97	GW-2 GW-2					
2,4-Dinitrophenol	51-28-5	Т	ug/L	100	GW-2					
2,4-Dinitrotoluene	121-14-2	T	ug/L	0.18	GW-2					
2,6-Dinitrotoluene 2-Chloronaphthalene	606-20-2 91-58-7	T	ug/L ug/L	100	GW-2					
2-Chlorophenol	95-57-8	Т	ug/L	17	GW-2					
2-Methylphenol	95-48-7	T	ug/L							
2-Nitroaniline 2-Nitrophenol	88-74-4 88-75-5	T	ug/L ug/L							
3 & 4 Methylphenol	65794-96-9	Ť	ug/L			<u>-</u>				
3,3'-Dichlorobenzidine	91-94-1	T	ug/L	0.0033	GW-2					
3-Nitroaniline 4,6-Dinitro-2-methylphenol	99-09-2 534-52-1	T	ug/L ug/L	7	GW-2	 		 	 	
4-Bromophenyl phenyl ether	101-55-3	T	ug/L	1	O V V = Z					
4-Chloro-3-methylphenol	59-50-7	T	ug/L	36	GW-2					
4-Chloroaniline	106-47-8	T	ug/L	_						
4-Chlorophenyl phenyl ether 4-Methylphenol	7005-72-3 106-44-5	T	ug/L ug/L			 		 		
4-Nitroaniline	100-01-6	Ť	ug/L							-
4-Nitrophenol	100-02-7	T	ug/L							
Aniline Benzidine	62-53-3 92-87-5	T	ug/L ug/L	2.3E-05	GW-2					
Benzoic acid	65-85-0	Ť	ug/L	2.02 00	OW Z					-
Benzyl alcohol	100-51-6	T	ug/L							
Bis(2-chloro-1-methylethyl) ether	85-68-7 108-60-1	T	ug/L ug/L	0.013 900	GW-2 GW-2	 		 		
Bis(2-chloroethoxy)methane	111-91-1	Ť	ug/L	300	OW-Z					
Bis(2-chloroethyl) ether	111-44-4	T	ug/L	0.06	GW-2					
bis(2-Chloroisopropyl)ether Bis(2-ethylhexyl) adipate	39638-32-9 103-23-1	T	ug/L ug/L			 		 	 	
Bis(2-ethylhexyl) phthalate	117-81-7	T	ug/L	0.046	GW-2					
Carbazole	86-74-8	T	ug/L							
Dibenzofuran Diethyl abthalate	132-64-9	T	ug/L	200	CW/ 2	<u></u>				
Direthyl phthalate Dimethyl phthalate	84-66-2 131-11-3	' †	ug/L ug/L	200 600	GW-2 GW-2			 		
Di-n-butyl phthalate	84-74-2	Ť	ug/L	8	GW-2					-
Di-n-octyl phthalate	117-84-0	T	ug/L	55.00	0111.0					
Hexachlorobutadiene Hexachlorobutadiene	118-74-1 87-68-3	T	ug/L ug/L	5E-06 0.01	GW-2 GW-2	 		 	 	
Hexachlorocyclopentadiene	77-47-4	T	ug/L	1	GW-2					
Hexachloroethane	67-72-1	T	ug/L	0.02	GW-2					
Isophorone Nitrobenzene	78-59-1 98-95-3	T	ug/L ug/L	110 100	GW-2 GW-2	 		 	 	<u></u>
N-Nitrosodimethylamine	62-75-9	T	ug/L ug/L	0.34	GW-2 GW-2					
N-Nitroso-di-n-propylamine	621-64-7	Т	ug/L	0.058	GW-2					
N-Nitrosodiphenylamine Pentachlorophenyl	86-30-6 87-86-5	T	ug/L	0.69 0.002	GW-2 GW-2	 	 	 	 	
Pentachlorophenol Perylene	198-55-0	T	ug/L ug/L	0.002	GVV-Z					
Phenol	108-95-2	Т	ug/L	70000	GW-2					
Pyridine Table Petrology Undergorbone	110-86-1	Т	ug/L							
Total Petroleum Hydrocarbons Gasoline Range Organics	TPH-GRO	Т	ug/L	800	GW-2					
Diesel Range Organics	TPH-DRO	Ť	ug/L	500	GW-2					
Motor Oil Range Organics	TPH-ORO	T	ug/L	500	GW-2					
Diesel and Oil Extended Range Organics Volatile Organic Compounds	TPH-EXT	Т	ug/L	500	GW-2					
1,2,4-Trichlorobenzene	120-82-1	Т	ug/L	0.037	GW-2					==
1,2-Dichlorobenzene	95-50-1	Ť	ug/L	800	GW-2					
1,3-Dichlorobenzene	541-73-1	T	ug/L	2	GW-2					
1,4-Dichlorobenzene Conventionals	106-46-7	Т	ug/L	59.8	GW-2					
Alkalinity as Bicarbonate	ALKHCO3	Т	mg/L as CaCO							
Alkalinity as Carbonate	ALKCO3	T	mg/L as CaCO	3						
Alkalinity, Total	ALKT 16887-00-6	T	ug/L ug/L			 				
Chloride										

					Location Date Sample	SWRX-POST 04/22/2020 SPM-SWRX-POST-SW-20200422	SWRX-POST 05/17/2020 SPM-NPDES-SW-20200517	SWRX-POST 10/10/2020 SPM-NPDES-SW-20201010	SWRX-POST 11/03/2020 SPM-NPDES-SW-20201103
Analyte	CAS RN	Fraction	n Unit	SPM_RI_STORMWATER_SI 2022.02	LS Screening Level Source				
Total PAHs (ND=0)	T-PAH	T	ug/L	_2022.02	Screening Level Source				
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	Т	ug/L	0.00969	GW-2				
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	T	ug/L	0.00969	GW-2	-			
Total cPAHs TEQ (ND=1)	T-cPAH-1U	T	ug/L						
Semivolatile Organic Compounds	528-29-0	Т	1//		1				
1,2-Dinitrobenzene 1,2-Diphenylhydrazine	122-66-7	+ +	ug/L ug/L	0.02	GW-2	 			
1,3-Dinitrobenzene	99-65-0	Ť	ug/L	0.02	GW-2				
1,4-Dinitrobenzene	100-25-4	T	ug/L						
2,3,4,6-Tetrachlorophenol	58-90-2	Т	ug/L						
2,3,5,6-Tetrachlorophenol	935-95-5	T	ug/L						
2,3-Dichloroaniline	608-27-5	T	ug/L			-			
2,4,5-Trichlorophenol	95-95-4	T	ug/L	600	GW-2				
2,4,6-Trichlorophenol	88-06-2	T	ug/L	0.28	GW-2				
2,4-Dichlorophenol 2,4-Dimethylphenol	120-83-2 105-67-9	+ +	ug/L ug/L	10 97	GW-2 GW-2	 			
2,4-Dinitrophenol	51-28-5	Ť	ug/L	100	GW-2	<u></u>			
2,4-Dinitrotoluene	121-14-2	Ť	ug/L	0.18	GW-2				
2,6-Dinitrotoluene	606-20-2	Т	ug/L			-			
2-Chloronaphthalene	91-58-7	Т	ug/L	100	GW-2				
2-Chlorophenol	95-57-8	T	ug/L	17	GW-2				
2-Methylphenol	95-48-7	T	ug/L						
2-Nitroaniline	88-74-4	Ţ	ug/L		+				
2-Nitrophenol 3 & 4 Methylphenol	88-75-5 65794-96-9	T	ug/L		+	 			
3 & 4 Methylphenol 3,3'-Dichlorobenzidine	91-94-1	+ +	ug/L ug/L	0.0033	GW-2				
3-Nitroaniline	99-09-2	Ť	ug/L	0.0000	5vv-2				
4,6-Dinitro-2-methylphenol	534-52-1	Ť	ug/L	7	GW-2				
4-Bromophenyl phenyl ether	101-55-3	T	ug/L			-			
4-Chloro-3-methylphenol	59-50-7	Т	ug/L	36	GW-2				
4-Chloroaniline	106-47-8	Т	ug/L						
4-Chlorophenyl phenyl ether	7005-72-3	T	ug/L			-			
4-Methylphenol	106-44-5	T T	ug/L						
4-Nitroaniline	100-01-6	T	ug/L						
4-Nitrophenol Aniline	100-02-7 62-53-3	+ +	ug/L ug/L			 			
Benzidine	92-87-5	†	ug/L	2.3E-05	GW-2				
Benzoic acid	65-85-0	Ť	ug/L	2.02 00	J., 2				
Benzyl alcohol	100-51-6	Т	ug/L			-			
Benzyl butyl phthalate	85-68-7	Т	ug/L	0.013	GW-2				
Bis(2-chloro-1-methylethyl) ether	108-60-1	T	ug/L	900	GW-2				
Bis(2-chloroethoxy)methane	111-91-1	T	ug/L			-			
Bis(2-chloroethyl) ether	111-44-4		ug/L	0.06	GW-2				
bis(2-Chloroisopropyl)ether	39638-32-9 103-23-1	T	ug/L						
Bis(2-ethylhexyl) adipate Bis(2-ethylhexyl) phthalate	117-81-7	Ť	ug/L ug/L	0.046	GW-2				
Carbazole	86-74-8	†	ug/L	0.040	GW-2	 			
Dibenzofuran	132-64-9	Ť	ug/L						
Diethyl phthalate	84-66-2	Т	ug/L	200	GW-2	-			
Dimethyl phthalate	131-11-3	Т	ug/L	600	GW-2				
Di-n-butyl phthalate	84-74-2	Т	ug/L	8	GW-2				
Di-n-octyl phthalate	117-84-0	T	ug/L						
Hexachlorobenzene	118-74-1	Ţ	ug/L	5E-06	GW-2				
Hexachloroputadiene	87-68-3 77-47-4	T	ug/L	0.01	GW-2				
Hexachlorocyclopentadiene Hexachloroethane	67-72-1	T	ug/L ug/L	0.02	GW-2 GW-2				
Isophorone	78-59-1	Ť	ug/L	110	GW-2				
Nitrobenzene	98-95-3	Ť	ug/L	100	GW-2				
N-Nitrosodimethylamine	62-75-9	T	ug/L	0.34	GW-2	-			
N-Nitroso-di-n-propylamine	621-64-7	Т	ug/L	0.058	GW-2				
N-Nitrosodiphenylamine	86-30-6	T	ug/L	0.69	GW-2				
Pentachlorophenol	87-86-5	T	ug/L	0.002	GW-2				
Perylene	198-55-0	T	ug/L	70000	OW C				
Phenol	108-95-2	T	ug/L	70000	GW-2				
Pyridine Total Petroleum Hydrocarbons	110-86-1		ug/L						
Gasoline Range Organics	TPH-GRO	Т	ug/L	800	GW-2				
Diesel Range Organics	TPH-DRO	Ť	ug/L	500	GW-2				
Motor Oil Range Organics	TPH-ORO	Ť	ug/L	500	GW-2	-			
Diesel and Oil Extended Range Organics	TPH-EXT	Ť	ug/L	500	GW-2				
Volatile Organic Compounds									
1,2,4-Trichlorobenzene	120-82-1	T	ug/L	0.037	GW-2				
1,2-Dichlorobenzene	95-50-1	T	ug/L	800	GW-2				
1,3-Dichlorobenzene	541-73-1	T	ug/L	2	GW-2				
1,4-Dichlorobenzene	106-46-7	Т	ug/L	59.8	GW-2				
Conventionals Alkalinity as Bicarbonate	ALKHCO3	Т	mg/L as CaCO3		1				
Alkalinity as Carbonate Alkalinity as Carbonate	ALKHCO3	+ ÷	mg/L as CaCO3		+				
Alkalinity, Total	ALKCOS	Ť	ug/L						
Chloride	16887-00-6	Ť	ug/L			-			
Dissolved Organic Carbon	DOC	Т	ug/L						
					•				

					Location Date Sample	SWRX-POST 01/28/2021 SPM-NPDES-SW-20210128	SWRX-POST 04/24/2021 SPM-NPDES-SW-20210424	SWRX-POST 05/27/2021 SPM-NPDES-SW-20210527	SWRX-PRE 10/08/2014 SP-OWS-01 (WATER)	SWRX-PRE 04/12/2017 SPM-SWRX-PRE-SW-20170412
	040 811		11.7	SPM_RI_STORMWATER_S						
Analyte Total PAHs (ND=0)	CAS_RN T-PAH	Fraction	Unit ug/L	_2022.02	Screening Level Source				0.38	
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	T	ug/L	0.00969	GW-2				0.0037 J	
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	Т	ug/L	0.00969	GW-2				0.034 J	
Total cPAHs TEQ (ND=1)	T-cPAH-1U	Т	ug/L						0.064 J	
Semivolatile Organic Compounds	528-29-0	Т	ua/l		<u> </u>				1	
1,2-Dinitrobenzene 1,2-Diphenylhydrazine	122-66-7	†	ug/L ug/L	0.02	GW-2					
1,3-Dinitrobenzene	99-65-0	Ť	ug/L	0.02	52					
1,4-Dinitrobenzene	100-25-4	Т	ug/L							
2,3,4,6-Tetrachlorophenol	58-90-2	T	ug/L			-		1	< 0 U	
2,3,5,6-Tetrachlorophenol 2,3-Dichloroaniline	935-95-5 608-27-5	T	ug/L ug/L							
2,4,5-Trichlorophenol	95-95-4	 	ug/L	600	GW-2				< 0.38 U	
2,4,6-Trichlorophenol	88-06-2	T	ug/L	0.28	GW-2			-	< 0.57 U	
2,4-Dichlorophenol	120-83-2	Т	ug/L	10	GW-2				< 0.38 U	
2,4-Dimethylphenol	105-67-9	T	ug/L	97	GW-2				< 1.9 U	
2,4-Dinitrophenol 2,4-Dinitrotoluene	51-28-5 121-14-2	T	ug/L ug/L	100 0.18	GW-2 GW-2		=======================================	 	< 4.7 U < 0.38 U	<u> </u>
2,6-Dinitrotoluene	606-20-2	Ť	ug/L	0.10	G v v - 2				< 0.38 U	
2-Chloronaphthalene	91-58-7	Т	ug/L	100	GW-2				< 0.057 U	
2-Chlorophenol	95-57-8	T	ug/L	17	GW-2				< 0.38 U	
2-Methylphenol	95-48-7	Ţ	ug/L	+					< 0.38 U	
2-Nitroaniline 2-Nitrophenol	88-74-4 88-75-5	T	ug/L ug/L	+	+		=======================================		< 0.38 U < 0.38 U	<u> </u>
3 & 4 Methylphenol	65794-96-9	Ť	ug/L	†						
3,3'-Dichlorobenzidine	91-94-1	Ť	ug/L	0.0033	GW-2				< 1.9 U	
3-Nitroaniline	99-09-2	T	ug/L						< 0.38 U	
4,6-Dinitro-2-methylphenol	534-52-1	T	ug/L	7	GW-2				< 3.8 U	
4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol	101-55-3 59-50-7	T	ug/L ug/L	36	GW-2				< 0.38 U < 0.38 U	
4-Chloroaniline	106-47-8	† †	ug/L ug/L	30	GW-2				< 0.38 U	
4-Chlorophenyl phenyl ether	7005-72-3	Т	ug/L					-	< 0.38 U	
4-Methylphenol	106-44-5	Т	ug/L					-	3.4	
4-Nitroaniline	100-01-6	Ţ	ug/L						< 0.57 U	
4-Nitrophenol Aniline	100-02-7 62-53-3	T	ug/L ug/L	+		 		 	< 2.8 U	
Benzidine	92-87-5	†	ug/L ug/L	2.3E-05	GW-2					
Benzoic acid	65-85-0	Т	ug/L		-			-	3.6	
Benzyl alcohol	100-51-6	Т	ug/L					-	< 0.38 U	
Benzyl butyl phthalate	85-68-7 108-60-1	T	ug/L	0.013	GW-2				0.25 J	
Bis(2-chloro-1-methylethyl) ether Bis(2-chloroethoxy)methane	111-91-1	T	ug/L ug/L	900	GW-2		=======================================	 	 < 0.38 U	
Bis(2-chloroethyl) ether	111-44-4	Ť	ug/L	0.06	GW-2				< 0.38 U	
bis(2-Chloroisopropyl)ether	39638-32-9	Т	ug/L		-			-		
Bis(2-ethylhexyl) adipate	103-23-1	T	ug/L							
Bis(2-ethylhexyl) phthalate	117-81-7 86-74-8	T	ug/L	0.046	GW-2				< 2.8 U < 0.38 U	
Carbazole Dibenzofuran	132-64-9	+ +	ug/L ug/L						< 0.38 U	
Diethyl phthalate	84-66-2	Ť	ug/L	200	GW-2				< 0.38 U	
Dimethyl phthalate	131-11-3	Т	ug/L	600	GW-2			-	0.31 J	
Di-n-butyl phthalate	84-74-2	I	ug/L	8	GW-2				0.15 J	
Di-n-octyl phthalate	117-84-0	Ţ	ug/L	55.00	CIAL O				< 0.38 U	
Hexachlorobenzene Hexachlorobutadiene	118-74-1 87-68-3	T	ug/L ug/L	5E-06 0.01	GW-2 GW-2	 			< 0.38 U < 0.57 U	
Hexachlorocyclopentadiene	77-47-4	Ť	ug/L	1	GW-2				< 1.9 U	
Hexachloroethane	67-72-1	Т	ug/L	0.02	GW-2				< 0.57 U	
Isophorone	78-59-1	Ţ	ug/L	110	GW-2				< 0.38 U	
Nitrobenzene N Nitropodimethylemine	98-95-3	T	ug/L	100 0.34	GW-2				< 0.38 U < 1.9 U	
N-Nitrosodimethylamine N-Nitroso-di-n-propylamine	62-75-9 621-64-7	+ +	ug/L ug/L	0.34	GW-2 GW-2	 		 	< 1.9 U < 0.38 U	
N-Nitrosodiphenylamine	86-30-6	T	ug/L	0.69	GW-2				< 0.38 U	
Pentachlorophenol	87-86-5	T	ug/L	0.002	GW-2				< 0.66 U	
Perylene	198-55-0	I	ug/L							
Phenol	108-95-2	T	ug/L	70000	GW-2				< 0.57 U	
Pyridine Total Petroleum Hydrocarbons	110-86-1		ug/L							
Gasoline Range Organics	TPH-GRO	Т	ug/L	800	GW-2					
Diesel Range Organics	TPH-DRO	T	ug/L	500	GW-2					
Motor Oil Range Organics	TPH-ORO	Ţ	ug/L	500	GW-2					
Diesel and Oil Extended Range Organics Volatile Organic Compounds	TPH-EXT	Т	ug/L	500	GW-2					
1,2,4-Trichlorobenzene	120-82-1	Т	ug/L	0.037	GW-2				< 0.38 U	
1,2-Dichlorobenzene	95-50-1	Ť	ug/L ug/L	800	GW-2 GW-2				< 0.38 U	
1,3-Dichlorobenzene	541-73-1	Ť	ug/L	2	GW-2			1	< 0.38 U	
1,4-Dichlorobenzene	106-46-7	Т	ug/L	59.8	GW-2				< 0.38 U	-
Conventionals	ALIZHOOC	T +							1 05	
Alkalinity as Bicarbonate Alkalinity as Carbonate	ALKHCO3 ALKCO3	T	mg/L as CaCO3 mg/L as CaCO3		+				25 5	
Alkalinity, Total	ALKCOS	Ť	ug/L	†					25000	
Chloride	16887-00-6	Т	ug/L						5100	
Dissolved Organic Carbon	DOC	Т	ug/L	1					2100	

					Location Date Sample	SWRX-PRE 05/16/2017 SPM-SWRX-PRE-SW-20170516	SWRX-PRE 06/08/2017 SPM-SWRX-PRE-SW-20170608	SWRX-PRE 09/19/2017 SPM-SWRX-PRE-SW-20170919	SWRX-PRE 03/04/2021 PRERX-SW-210304	SWRX-PRE 05/27/2021 PRERX-SW-210527
	040 84			SPM_RI_STORMWATER_SLS						
Analyte Total PAHs (ND=0)	CAS_RN T-PAH	Fraction	Unit ug/L	_2022.02	Screening Level Source		0.349	_	0.0400 J	0.0760 J
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	Ť	ug/L	0.00969	GW-2		0.0287		< 0.1 U	0.0760 J 0.00122 J
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	Т	ug/L	0.00969	GW-2		0.0292	•	< 0.0805 U	0.00722 J
Total cPAHs TEQ (ND=1)	T-cPAH-1U	Т	ug/L							
Semivolatile Organic Compounds	500.00.0	Т			T		-0.0011			
1,2-Dinitrobenzene 1,2-Diphenylhydrazine	528-29-0 122-66-7	T	ug/L ug/L	0.02	GW-2		< 0.96 U < 0.96 U			
1,3-Dinitrobenzene	99-65-0	Ť	ug/L	0.02	GVV-2		< 0.96 U			
1,4-Dinitrobenzene	100-25-4	Т	ug/L				< 0.96 U	-		
2,3,4,6-Tetrachlorophenol	58-90-2	Т	ug/L				< 0.96 U			
2,3,5,6-Tetrachlorophenol 2.3-Dichloroaniline	935-95-5	T	ug/L				< 0.96 U			
2,4,5-Trichlorophenol	608-27-5 95-95-4	T	ug/L ug/L	600	GW-2	<u></u>	< 0.96 U < 0.96 U	 	 <1U	 <1U
2,4,6-Trichlorophenol	88-06-2	Ť	ug/L	0.28	GW-2		< 0.96 U		<1U	<1U
2,4-Dichlorophenol	120-83-2	Т	ug/L	10	GW-2		< 0.96 U	-	< 1 U	< 1 U
2,4-Dimethylphenol	105-67-9	Т	ug/L	97	GW-2		< 0.96 U		< 1 U	<1U
2,4-Dinitrophenol	51-28-5	T	ug/L	100	GW-2		< 4.8 U	-	< 2 UJ	< 2 UJ
2,4-Dinitrotoluene	121-14-2	T	ug/L	0.18	GW-2		< 0.96 U		<10	< 1 U < 1 U
2,6-Dinitrotoluene 2-Chloronaphthalene	606-20-2 91-58-7	T	ug/L ug/L	100	GW-2	<u></u>	< 0.96 U < 0.96 U		< 1 U < 0.2 U	< 1 U < 0.01 U
2-Chlorophenol	95-57-8	Ť	ug/L ug/L	17	GW-2		< 0.96 U		< 0.2 U	< 0.0 T U
2-Methylphenol	95-48-7	Ť	ug/L		. =		< 0.96 U	-	< 0.2 U	0.04 J
2-Nitroaniline	88-74-4	T	ug/L				< 0.96 U		< 1 U	<1U
2-Nitrophenol	88-75-5	T	ug/L		ļ		< 0.96 U		< 1 U	< 1 U
3 & 4 Methylphenol 3,3'-Dichlorobenzidine	65794-96-9 91-94-1	T	ug/L	0.0033	GW-2		< 0.96 U < 0.96 U	<u>-</u>	 <1U	 <1U
3-Nitroaniline	91-94-1	T	ug/L ug/L	0.0033	Gvv-2		< 0.96 U		<1U	<1U
4,6-Dinitro-2-methylphenol	534-52-1	Ť	ug/L	7	GW-2		< 4.8 U		< 2 U	< 2 U
4-Bromophenyl phenyl ether	101-55-3	T	ug/L	· · · · · · · · · · · · · · · · · · ·			< 0.96 U	1	< 0.2 U	< 0.2 U
4-Chloro-3-methylphenol	59-50-7	Т	ug/L	36	GW-2		< 0.96 U	=	< 1 U	<1 U
4-Chloroaniline	106-47-8	T	ug/L				< 0.96 U	-	< 1 UJ	< 1 UJ
4-Chlorophenyl phenyl ether	7005-72-3	T	ug/L				< 0.96 U		< 0.2 UJ	< 0.2 U
4-Methylphenol 4-Nitroaniline	106-44-5 100-01-6	T	ug/L ug/L				 < 0.96 U	 	< 0.2 U < 1 U	0.05 J < 1 U
4-Nitrophenol	100-01-0	†	ug/L				< 4.8 U		<1U	< 1 U
Aniline	62-53-3	T	ug/L				< 4.8 U	-		
Benzidine	92-87-5	Т	ug/L	2.3E-05	GW-2		< 4.8 U	-		
Benzoic acid	65-85-0	T	ug/L						< 2 U	0.4 J
Benzyl alcohol	100-51-6	T	ug/L	0.040	0111.0		< 0.96 U		< 0.2 U	0.2 J
Benzyl butyl phthalate Bis(2-chloro-1-methylethyl) ether	85-68-7 108-60-1	T	ug/L ug/L	0.013 900	GW-2 GW-2	 	< 0.96 U		< 0.2 U < 0.2 U	0.2 J < 0.2 U
Bis(2-chloroethoxy)methane	111-91-1	÷	ug/L	900	GW-2		< 0.96 U		< 0.2 U	< 0.2 U
Bis(2-chloroethyl) ether	111-44-4	Ť	ug/L	0.06	GW-2		< 0.96 U	-	< 0.2 U	< 0.2 U
bis(2-Chloroisopropyl)ether	39638-32-9	Т	ug/L				< 0.96 U	-		
Bis(2-ethylhexyl) adipate	103-23-1	Т	ug/L				< 0.96 U			
Bis(2-ethylhexyl) phthalate	117-81-7	Ţ	ug/L	0.046	GW-2		2.5		2.6	3.7
Carbazole Dibenzofuran	86-74-8 132-64-9	T	ug/L ug/L				< 0.96 U < 0.96 U	 	< 0.2 U < 0.1 U	0.008 J 0.002 J
Diethyl phthalate	84-66-2	†	ug/L	200	GW-2		< 0.96 U		< 0.1 U	< 0.2 U
Dimethyl phthalate	131-11-3	Т	ug/L	600	GW-2		< 0.96 U		0.7	16.9
Di-n-butyl phthalate	84-74-2	Т	ug/L	8	GW-2		< 0.96 U		0.7	0.2 J
Di-n-octyl phthalate	117-84-0	Т	ug/L				< 0.96 U	•	0.3	0.2 J
Hexachlorobenzene	118-74-1	T	ug/L	5E-06	GW-2		< 0.96 U		< 0.2 U	< 0.2 U
Hexachlorobutadiene Hexachlorocyclopentadiene	87-68-3 77-47-4	T	ug/L ug/L	0.01 1	GW-2 GW-2	-	< 0.96 U < 0.96 U	-	< 0.2 U < 1 UJ	< 0.2 U < 1 U
Hexachlorocyclopentagiene Hexachloroethane	67-72-1	+	ug/L ug/L	0.02	GW-2 GW-2		< 0.96 U		< 1 UJ < 0.2 U	< 0.2 U
Isophorone	78-59-1	Т	ug/L	110	GW-2		< 0.96 U	1	< 0.2 U	< 0.2 U
Nitrobenzene	98-95-3	T	ug/L	100	GW-2		< 0.96 U	1	< 0.2 U	< 0.2 U
N-Nitrosodimethylamine	62-75-9	T	ug/L	0.34	GW-2		< 0.96 U	•		
N-Nitroso-di-n-propylamine	621-64-7	T	ug/L	0.058	GW-2		< 0.96 U		< 0.2 U	< 0.2 U
N-Nitrosodiphenylamine Pentachlorophenol	86-30-6 87-86-5	T	ug/L ug/L	0.69 0.002	GW-2 GW-2	 	< 0.96 U < 4.8 U		< 0.2 U < 1 UJ	< 0.2 U 0.3 J
Perylene	198-55-0	+ +	ug/L ug/L	0.002	Gvv-2		< 4.8 U			< 0.01 U
Phenol	108-95-2	Ť	ug/L	70000	GW-2		< 0.96 U		0.1 J	0.1 J
Pyridine	110-86-1	Т	ug/L				< 0.96 U	-		
Total Petroleum Hydrocarbons										
Gasoline Range Organics	TPH-GRO	T	ug/L	800	GW-2			-	< 100 U	< 100 U
Diesel Range Organics Motor Oil Range Organics	TPH-DRO TPH-ORO	T	ug/L	500 500	GW-2 GW-2				305	< 100 U < 200 U
Diesel and Oil Extended Range Organics	TPH-EXT	+ +	ug/L ug/L	500	GW-2 GW-2	<u></u>		 	380 685	< 200 U
Volatile Organic Compounds	1111-1271	<u> </u>	ugre							- 200 0
1,2,4-Trichlorobenzene	120-82-1	Т	ug/L	0.037	GW-2		< 0.96 U	-	< 0.2 U	< 0.2 U
1,2-Dichlorobenzene	95-50-1	Т	ug/L	800	GW-2		< 0.96 U	1	< 0.2 U	< 0.2 U
1,3-Dichlorobenzene	541-73-1	T	ug/L	2	GW-2		< 0.96 U	•	< 0.2 U	< 0.2 U
1,4-Dichlorobenzene	106-46-7	T	ug/L	59.8	GW-2		< 0.96 U		< 0.2 U	< 0.2 U
Conventionals Alkalinity as Bicarbonate	ALKHCO3	Т	mg/L as CaCO3						1 -	
Alkalinity as Carbonate Alkalinity as Carbonate	ALKHCO3 ALKCO3	 	mg/L as CaCO3		 	-		-		
Alkalinity, Total	ALKCOS	Ť	ug/L				11000			
Chloride	16887-00-6	T	ug/L					1		
Dissolved Organic Carbon	DOC	Т	ug/L		1					

					Location Date Sample	SWRX-PRE 05/27/2021 PRERX-SW-FD-210527
				SPM RI STORMWATER SI		1 KLKX-0W-1 D-210321
Analyte	CAS_RN	Fraction	Unit	2022.02	Screening Level Source	
otal PAHs (ND=0)	T-PAH	Т	ug/L			0.118 J
otal cPAHs TEQ (ND = 0)	T-cPAH-0U	Ţ	ug/L	0.00969	GW-2	0.00667 J
otal cPAHs TEQ (ND = 1/2 RDL) otal cPAHs TEQ (ND=1)	T-cPAH-1/2U T-cPAH-1U	T	ug/L	0.00969	GW-2	0.00717 J
emivolatile Organic Compounds	I -cPAH-1U		ug/L			
2-Dinitrobenzene	528-29-0	Т	ug/L			
P-Diphenylhydrazine	122-66-7	Ť	ug/L	0.02	GW-2	
3-Dinitrobenzene	99-65-0	Т	ug/L			
-Dinitrobenzene	100-25-4	Т	ug/L			_
,4,6-Tetrachlorophenol	58-90-2	T	ug/L			
,5,6-Tetrachlorophenol	935-95-5	T	ug/L			
-Dichloroaniline ,5-Trichlorophenol	608-27-5	T	ug/L	200	0111.0	
,5-1 richlorophenol ,6-Trichlorophenol	95-95-4 88-06-2	T	ug/L ug/L	600 0.28	GW-2 GW-2	< 1 U < 1 U
-Dichlorophenol	120-83-2	†	ug/L	10	GW-2	<1U
-Dimethylphenol	105-67-9	† †	ug/L	97	GW-2	<1U
-Dinitrophenol	51-28-5	Ť	ug/L	100	GW-2	< 2 UJ
-Dinitrotoluene	121-14-2	Т	ug/L	0.18	GW-2	< 1 U
Dinitrotoluene	606-20-2	Т	ug/L			< 1 U
hloronaphthalene	91-58-7	Т	ug/L	100	GW-2	< 0.01 U
hlorophenol	95-57-8	T	ug/L	17	GW-2	< 0.2 U
ethylphenol	95-48-7	<u>T</u>	ug/L			0.03 J
itroaniline	88-74-4	Ţ	ug/L			<1U
itrophenol	88-75-5	T	ug/L		+	<1U
4 Methylphenol -Dichlorobenzidine	65794-96-9 91-94-1	 	ug/L ug/L	0.0033	GW-2	 < 1 U
itroaniline	99-09-2	+ +	ug/L ug/L	0.0033	GVV-2	<1U
-Dinitro-2-methylphenol	534-52-1	Ť	ug/L ug/L	7	GW-2	< 2 U
romophenyl phenyl ether	101-55-3	Ť	ug/L			< 0.2 U
hloro-3-methylphenol	59-50-7	Т	ug/L	36	GW-2	< 1 U
hloroaniline	106-47-8	Т	ug/L			< 1 UJ
hlorophenyl phenyl ether	7005-72-3	T	ug/L			< 0.2 U
lethylphenol	106-44-5	T	ug/L			0.04 J
itroaniline	100-01-6	Ţ	ug/L			<1U
itrophenol	100-02-7	T	ug/L			<1U
line nzidine	62-53-3 92-87-5	+ +	ug/L ug/L	2.3E-05	GW-2	
nzoic acid	65-85-0	Ť	ug/L	2.52-03	GVV-2	0.4 J
nzyl alcohol	100-51-6	T	ug/L			0.2 J
nzyl butyl phthalate	85-68-7	Т	ug/L	0.013	GW-2	0.2 J
(2-chloro-1-methylethyl) ether	108-60-1	Т	ug/L	900	GW-2	< 0.2 U
(2-chloroethoxy)methane	111-91-1	T	ug/L			< 0.2 U
(2-chloroethyl) ether	111-44-4	T	ug/L	0.06	GW-2	< 0.2 U
2-Chloroisopropyl)ether	39638-32-9	Ţ	ug/L			
(2-ethylhexyl) adipate (2-ethylhexyl) phthalate	103-23-1 117-81-7	T	ug/L ug/L	0.046	GW-2	3.3
bazole	86-74-8	+ +	ug/L ug/L	0.046	GW-2	0.007 J
enzofuran	132-64-9	Ť	ug/L			< 0.01 U
thyl phthalate	84-66-2	Ť	ug/L	200	GW-2	< 0.2 U
nethyl phthalate	131-11-3	Т	ug/L	600	GW-2	15.7
n-butyl phthalate	84-74-2	Т	ug/L	8	GW-2	0.2 J
n-octyl phthalate	117-84-0	Т	ug/L			0.2 J
achlorobenzene	118-74-1	T	ug/L	5E-06	GW-2	< 0.2 U
achlorobutadiene	87-68-3	T	ug/L	0.01	GW-2	< 0.2 U
achlorocyclopentadiene	77-47-4 67-72-1	T	ug/L	1 0.02	GW-2 GW-2	< 1 U < 0.2 U
cachloroethane Ohorone	78-59-1	+ +	ug/L ug/L	110	GW-2 GW-2	< 0.2 U
obenzene	98-95-3	+ +	ug/L ug/L	100	GW-2 GW-2	< 0.2 U
itrosodimethylamine	62-75-9	†	ug/L	0.34	GW-2	
itroso-di-n-propylamine	621-64-7	Ť	ug/L	0.058	GW-2	< 0.2 U
itrosodiphenylamine	86-30-6	Т	ug/L	0.69	GW-2	< 0.2 U
tachlorophenol	87-86-5	Т	ug/L	0.002	GW-2	0.2 J
ylene	198-55-0	Ţ	ug/L	7000	000.5	< 0.01 U
nol	108-95-2	 	ug/L	70000	GW-2	0.1 J
dine al Petroleum Hydrocarbons	110-86-1	<u> </u>	ug/L			
oline Range Organics	TPH-GRO	Т	ug/L	800	GW-2	< 100 U
sel Range Organics	TPH-DRO	Ť	ug/L	500	GW-2	< 100 U
or Oil Range Organics	TPH-ORO	Ť	ug/L	500	GW-2	< 200 U
sel and Oil Extended Range Organics	TPH-EXT	Т	ug/L	500	GW-2	< 200 U
atile Organic Compounds						
4-Trichlorobenzene	120-82-1	T	ug/L	0.037	GW-2	< 0.2 U
Dichlorobenzene	95-50-1	T	ug/L	800	GW-2	< 0.2 U
Dichlorobenzene	541-73-1	Ţ	ug/L	2	GW-2	< 0.2 U
Dichlorobenzene	106-46-7	1 [ug/L	59.8	GW-2	< 0.2 U
nventionals	ALKHCO3	Тт	mg/L as CaCO3		1	
alinity as Bicarbonate alinity as Carbonate	ALKHCO3 ALKCO3	T T	mg/L as CaCO3		+	-
alinity as Carbonate alinity, Total	ALKCOS	+ +	ug/L		+	-
oride	16887-00-6	T	ug/L			

		_		Location Date Sample	CB-01 09/19/2017 SPM-CB-01-SW-20170919	CB-02 06/08/2017 SPM-CB-02-SW-20170608	CB-02 09/19/2017 SPM-CB-02-SW-20170919	CB-02 03/05/2021 CB-02-SW-210305	CB-02 04/24/2021 SPM-CB-02-SW-20210424
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02 Screening Level Source					
Hardness	Hard	Т	ug/L			12000 12000			
Nitrate as Nitrogen	14797-55-8	Т	ug/L					_	
Sulfate	14808-79-8	Т	ug/L		<u></u>		=	_	-
Total Dissolved Solids	TDS	Т	ug/L		<u></u>	60000	-	-	ı
Total Organic Carbon	TOC	Т	ug/L			16000	-	3040	
Total Suspended Solids	TSS	Т	ug/L		<u></u>	8000	-	6000	24000
(None)									
1-Chloropropane	540-54-5	Т	ug/L		<u></u>	-	-	-	ı
Field Parameters									
Temperature	Temp	Т	deg C			16.41		_	-
Specific Conductance	Cond	Т	umhos/cm			38		-	-
Dissolved Oxygen	DO	Т	ug/L			3220		_	-
pH	pН	Т	pH units			6.75		-	-
Oxidation Reduction Potential	ORP	Т	mV		<u></u>	159	-	-	ı
Turbidity FOG	Turb	T	NTU			7.6		-	
FOG									
Fats/Oils/Grease (Non-Polar)	FOG-NP	T	ug/L					_	-
Fats/Oils/Grease (Polar)	FOG-P	Т	ug/L		-		-	_	-
Fats/Oils/Grease (Total)	FOG-TOT	T	ug/L						

				Location Date Sample	CB-02 05/27/2021 SPM-CB-02-SW-20210527	CB-02 05/27/2021 CB-02-SW-210527	CB-05 09/19/2017 SPM-CB-05-SW-20170919	CB-05 04/24/2021 SPM-CB-05-SW-20210424	CB-05 05/27/2021 SPM-CB-05-SW-20210527
	040 PM		SPM_RI_STORMWATER_SLS						
Analyte	CAS_RN	Fraction	Unit2022.02	Screening Level Source					
Hardness	Hard	Т	ug/L					-	-
Nitrate as Nitrogen	14797-55-8	Т	ug/L				-		
Sulfate	14808-79-8	T	ug/L				-	-	-
Total Dissolved Solids	TDS	Т	ug/L				-	-	
Total Organic Carbon	TOC	Т	ug/L			7760	-	-	
Total Suspended Solids	TSS	Т	ug/L		4000	15000	-	8000	8000
(None)									
1-Chloropropane	540-54-5	Т	ug/L				-		
Field Parameters									
Temperature	Temp	Т	deg C				-	-	
Specific Conductance	Cond	Т	umhos/cm				-		-
Dissolved Oxygen	DO	Т	ug/L				-		
pH	pН	Т	pH units				-	-	
Oxidation Reduction Potential	ORP	T	mV				-		
Turbidity	Turb	T	NTU				-		
FOG	•								
Fats/Oils/Grease (Non-Polar)	FOG-NP	Т	ug/L				-		
Fats/Oils/Grease (Polar)	FOG-P	T	ug/L				-		
Fats/Oils/Grease (Total)	FOG-TOT	Т	ug/L						

				Location Date Sample	CB-06 06/08/2017 SPM-CB-06-SW-20170608	CB-06 09/19/2017 SPM-CB-06-SW-20170919	CB-06 03/04/2021 CB-06-SW-210304	CB-06 04/24/2021 SPM-CB-06-SW-20210424	CB-06 05/27/2021 SPM-CB-06-SW-20210527
	040 511		SPM_RI_STORMWATER_S						
Analyte	CAS_RN	Fraction	Unit _2022.02	Screening Level Source					
Hardness	Hard	T	ug/L		9100				-
					9100				
Nitrate as Nitrogen	14797-55-8	T	ug/L						
Sulfate	14808-79-8	T	ug/L						
Total Dissolved Solids	TDS	Т	ug/L		52000				-
Total Organic Carbon	TOC	Т	ug/L		15000		5400	<u>-</u>	-
Total Suspended Solids	TSS	T	ug/L		18000		26000	24000	20000
(None)									
1-Chloropropane	540-54-5	T	ug/L					-	-
Field Parameters									
Temperature	Temp	T	deg C		19.1			-	-
Specific Conductance	Cond	Т	umhos/cm		19			-	-
Dissolved Oxygen	DO	T	ug/L		4090			-	-
pH	pH	T	pH units		6.91			-	-
Oxidation Reduction Potential	ORP	T	mV		135			-	
Turbidity	Turb	Т	NTU		31.2			-	
FOG	•		<u> </u>			•			•
Fats/Oils/Grease (Non-Polar)	FOG-NP	T	ug/L					_	-
Fats/Oils/Grease (Polar)	FOG-P	Т	ug/L					-	
Fats/Oils/Grease (Total)	FOG-TOT	T	ug/L					-	

	_				Location Date Sample	CB-06 05/27/2021 CB-06-SW-210527	SWRX-MID 04/12/2017 SPM-SWRX-MID-SW-20170412	SWRX-MID 05/16/2017 SPM-SWRX-MID-SW-20170516	SWRX-MID 06/08/2017 SPM-SWRX-MID-SW-20170608
	040 541		11.2	SPM_RI_STORMWATER_SLS					
Analyte	CAS_RN	Fraction	Unit	_2022.02	Screening Level Source				
Hardness	Hard	T	ug/L				-		20000
									20000
Nitrate as Nitrogen	14797-55-8	T	ug/L						
Sulfate	14808-79-8	T	ug/L						
Total Dissolved Solids	TDS	T	ug/L					-	45000
Total Organic Carbon	TOC	T	ug/L			10310			21000
Total Suspended Solids	TSS	T	ug/L			12000			14000
(None)									
1-Chloropropane	540-54-5	T	ug/L						
Field Parameters									
Temperature	Temp	T	deg C						18.81
Specific Conductance	Cond	Т	umhos/cm						78
Dissolved Oxygen	DO	T	ug/L						3350
oH	Hq	Т	pH units						6.68
Oxidation Reduction Potential	ORP	Т	mV						108
Turbidity	Turb	Т	NTU					-	19.7
FOG									
Fats/Oils/Grease (Non-Polar)	FOG-NP	T	ug/L						
Fats/Oils/Grease (Polar)	FOG-P	Т	ug/L						
Fats/Oils/Grease (Total)	FOG-TOT	T	ua/L						

Bold - detected
Blue Shaded - Detected result exceeded screening level
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
D - Dissolved Fraction (iffitered) sample result
T - Total Fraction (unfiltered) sample result
CPAHs = carcinogenic polycyclic aromatic hydrocarbons
HPAH = high molecular weight PAH
LPAH = low molecular weight PAH
"--" - indicates results not available
ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components
ND = 0 - calculated using 0 for non-detected components

					Location Date Sample	SWRX-MID 09/19/2017 SPM-SWRX-MID-SW-20170919	SWRX-POST 12/01/2016 SPM-SWRX-POST-SW-20161201	SWRX-POST 01/01/2017 SPM-SWRX-POST-SW-20170101	SWRX-POST 04/12/2017 SPM-SWRX-POST-SW-20170412
		l		SPM_RI_STORMWATER_SLS					
Analyte	CAS_RN	Fraction	Unit	_2022.02	Screening Level Source				
Hardness	Hard	Т	ug/L						
Nitrate as Nitrogen	14797-55-8	Т	ug/L						
Sulfate	14808-79-8	T	ug/L			=	-		
Total Dissolved Solids	TDS	T	ug/L				-	-	
Total Organic Carbon	TOC	Т	ug/L					-	
Total Suspended Solids	TSS	T	ug/L						
(None)									
1-Chloropropane	540-54-5	T	ug/L				-	-	
Field Parameters									
Temperature	Temp	T	deg C				-	-	
Specific Conductance	Cond	T	umhos/cm			=	-		
Dissolved Oxygen	DO	T	ug/L				-	-	
pH	pН	Т	pH units					-	
Oxidation Reduction Potential	ORP	T	mV						
Turbidity	Turb	T	NTU						
Turbidity FOG									
Fats/Oils/Grease (Non-Polar)	FOG-NP	T	ug/L					-	
Fats/Oils/Grease (Polar)	FOG-P	T	ug/L						
Fats/Oils/Grease (Total)	FOG-TOT	T	ug/L				-	-	

Bold - detected
Blue Shaded - Detected result exceeded screening level
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
D - Dissolved Fraction (iffitered) sample result
T - Total Fraction (unfiltered) sample result
CPAHs = carcinogenic polycyclic aromatic hydrocarbons
HPAH = high molecular weight PAH
LPAH = low molecular weight PAH
"--" - indicates results not available
ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components
ND = 0 - calculated using 0 for non-detected components

				Location Date Sample	SWRX-POST 05/16/2017 SPM-SWRX-POST-SW-20170516	SWRX-POST 06/08/2017 SPM-SWRX-POST-SW-20170608	SWRX-POST 09/19/2017 SPM-SWRX-POST-SW-20170919	SWRX-POST 10/18/2017 SPM-NPDES-SW-20171018
			SPM_RI_STORMWATER_S					
Analyte	CAS_RN	Fraction	Unit _2022.02	Screening Level Source				
Hardness	Hard	T	ug/L			22000		
						22000		
Nitrate as Nitrogen	14797-55-8	Т	ug/L		-			
Sulfate	14808-79-8	Т	ug/L		<u>-</u>			
Total Dissolved Solids	TDS	Т	ug/L			31000		
Total Organic Carbon	TOC	Т	ug/L			1500		
Total Suspended Solids	TSS	Т	ug/L			< 4000 U		
(None)								
1-Chloropropane	540-54-5	Т	ug/L					
Field Parameters								
Temperature	Temp	Т	deg C			17.72		
Specific Conductance	Cond	Т	umhos/cm			74		
Dissolved Oxygen	DO	Т	ug/L			460		
pH	pН	Т	pH units			6.12		
Oxidation Reduction Potential	ORP	Т	mV			123		
Turbidity	Turb	T	NTU			3.4		
FOG								
Fats/Oils/Grease (Non-Polar)	FOG-NP	T	ug/L					
Fats/Oils/Grease (Polar)	FOG-P	Т	ug/L					
Fats/Oils/Grease (Total)	FOG-TOT	Т	ug/L					

					Location Date Sample	SWRX-POST 10/18/2017 SPM-SWRX-POST-SW-20171018	SWRX-POST 11/03/2017 SPM-NPDES-SW-20171103	SWRX-POST 11/03/2017 SPM-SWRX-POST-SW-20171103	SWRX-POST 01/05/2018 SPM-NPDES-SW-20180105
Analyte	CAS RN	Fraction	Unit	PM_RI_STORMWATER_SLS 2022.02	Screening Level Source				
Hardness	Hard	Т	ug/L	_ ` `	3				-
Nitrate as Nitrogen	14797-55-8	Т	ug/L						
Sulfate	14808-79-8	T	ug/L			<u></u>	-		
Total Dissolved Solids	TDS	T	ug/L			-			
Total Organic Carbon	TOC	T	ug/L			-			
Total Suspended Solids	TSS	T	ug/L			-			
(None)									
1-Chloropropane	540-54-5	T	ug/L			-			
Field Parameters									
Temperature	Temp	T	deg C			-			
Specific Conductance	Cond	T u	mhos/cm			-			
Dissolved Oxygen	DO	T	ug/L			-			
pH	pH	T	pH units			-			
Oxidation Reduction Potential	ORP	T	mV						
Turbidity	Turb	T	NTU						
FOG			•						
Fats/Oils/Grease (Non-Polar)	FOG-NP	T	ug/L						
Fats/Oils/Grease (Polar)	FOG-P	T	ug/L				-		
Fats/Oils/Grease (Total)	FOG-TOT	T	ug/L			-			

					Location Date Sample	SWRX-POST 01/23/2018 SPM-NPDES-SW-20180123	SWRX-POST 04/10/2018 SPM-NPDES-SW-20180410	SWRX-POST 10/05/2018 SPM-NPDES-SW-20181005	SWRX-POST 11/02/2018 SPM-NPDES-SW-20181102	SWRX-POST 01/03/2019 SPM-NPDES-SW-20190103
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Hardness	Hard	T	ug/L	_2022.02	Screening Level Source	-				
Nitrate as Nitrogen	14797-55-8	Т	ug/L							
Sulfate	14808-79-8	T	ug/L							
Total Dissolved Solids	TDS	Т	ug/L			-	-	-	-	-
Total Organic Carbon	TOC	Т	ug/L			-			-	-
otal Suspended Solids	TSS	Т	ug/L							
None)	·									
I-Chloropropane	540-54-5	Т	ug/L							
ield Parameters	·									
Temperature	Temp	Т	deg C							
Specific Conductance	Cond	Т	umhos/cm							
Dissolved Oxygen	DO	Т	ug/L							
H	pH	Т	pH units							
Oxidation Reduction Potential	ORP	Т	mV							
urbidity	Turb	Т	NTU							
OG			•							
ats/Oils/Grease (Non-Polar)	FOG-NP	Т	ug/L							
Fats/Oils/Grease (Polar)	FOG-P	Т	ua/L							
Fats/Oils/Grease (Total)	FOG-TOT	Т	ua/L							

Bold - detected
Blue Shaded - Detected result exceeded screening level
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
D - Dissolved Fraction (iffitered) sample result
T - Total Fraction (unfiltered) sample result
CPAHs = carcinogenic polycyclic aromatic hydrocarbons
HPAH = high molecular weight PAH
LPAH = low molecular weight PAH
"--" - indicates results not available
ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components
ND = 0 - calculated using 0 for non-detected components

					Location Date Sample	SWRX-POST 04/05/2019 SPM-NPDES-SW-20190405	SWRX-POST 05/14/2019 SPM-NPDES-SW-20190514	SWRX-POST 10/16/2019 SPM-NPDES-SW-20191016	SWRX-POST 12/12/2019 SPM-NPDES-SW-20191212	SWRX-POST 01/10/2020 SPM-NPDES-SW-20200110
				M_RI_STORMWATER_SLS						
Analyte	CAS_RN	Fraction	Unit	_2022.02	Screening Level Source					
Hardness	Hard	Т	ug/L			-			-	
Nitrate as Nitrogen	14797-55-8	Т	ug/L			<u>-</u>			_	
Sulfate	14808-79-8	Т	ug/L			-		-	-	
Total Dissolved Solids	TDS	Т	ug/L						-	
Total Organic Carbon	TOC	Т	ug/L			-		-	-	
Total Suspended Solids	TSS	Т	ug/L						-	
(None)										
1-Chloropropane	540-54-5	T	ug/L						-	
Field Parameters										
Temperature	Temp	Т	deg C						-	
Specific Conductance	Cond	Т	umhos/cm						-	
Dissolved Oxygen	DO	T	ug/L						-	
pH	pН	Т	pH units						-	
Oxidation Reduction Potential	ORP	T	mV						-	
Turbidity	Turb	Т	NTU						-	
FOG	•									
Fats/Oils/Grease (Non-Polar)	FOG-NP	T	ug/L	•					-	
Fats/Oils/Grease (Polar)	FOG-P	T	ug/L						-	
Fats/Oils/Grease (Total)	FOG-TOT	T	ug/L	•					-	

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J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
D - Dissolved Fraction (iffitered) sample result
T - Total Fraction (unfiltered) sample result
CPAHs = carcinogenic polycyclic aromatic hydrocarbons
HPAH = high molecular weight PAH
LPAH = low molecular weight PAH
"--" - indicates results not available
ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components
ND = 0 - calculated using 0 for non-detected components

					Location Date Sample	SWRX-POST 04/22/2020 SPM-SWRX-POST-SW-20200422	SWRX-POST 05/17/2020 SPM-NPDES-SW-20200517	SWRX-POST 10/10/2020 SPM-NPDES-SW-20201010	SWRX-POST 11/03/2020 SPM-NPDES-SW-20201103
				SPM_RI_STORMWATER_SLS					
Analyte	CAS_RN	Fraction	Unit	_2022.02	Screening Level Source				
Hardness	Hard	T	ug/L						
Nitrate as Nitrogen	14797-55-8	Т	ug/L			_			
Sulfate	14808-79-8	T	ug/L						
Total Dissolved Solids	TDS	T	ug/L			<u></u>		-	
Total Organic Carbon	TOC	Т	ug/L			-		-	
Total Suspended Solids	TSS	Т	ug/L			-		-	
(None)									
1-Chloropropane	540-54-5	Т	ug/L						
Field Parameters									
Temperature	Temp	Т	deg C			-			
Specific Conductance	Cond	Т	umhos/cm			-			
Dissolved Oxygen	DO	Т	ug/L						
pH	pН	Т	pH units			-			
Oxidation Reduction Potential	ORP	Т	mV			-			
Turbidity	Turb	Т	NTU			-			
FOG									
Fats/Oils/Grease (Non-Polar)	FOG-NP	Т	ug/L			-			
Fats/Oils/Grease (Polar)	FOG-P	Т	ug/L			-			
Fats/Oils/Grease (Total)	FOG-TOT	Т	ug/L						

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U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
D - Dissolved Fraction (iffitered) sample result
T - Total Fraction (unfiltered) sample result
CPAHs = carcinogenic polycyclic aromatic hydrocarbons
HPAH = high molecular weight PAH
LPAH = low molecular weight PAH
"--" - indicates results not available
ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components
ND = 0 - calculated using 0 for non-detected components

					Location Date Sample	SWRX-POST 01/28/2021 SPM-NPDES-SW-20210128	SWRX-POST 04/24/2021 SPM-NPDES-SW-20210424	SWRX-POST 05/27/2021 SPM-NPDES-SW-20210527	SWRX-PRE 10/08/2014 SP-OWS-01 (WATER)	SWRX-PRE 04/12/2017 SPM-SWRX-PRE-SW-20170412
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Hardness	Hard	Т	ug/L	_	Ü	-				
Nitrate as Nitrogen	14797-55-8	Т	ug/L			-			< 900 U	
Sulfate	14808-79-8	Т	ug/L				-		2000	
Total Dissolved Solids	TDS	T	ug/L							-
Total Organic Carbon	TOC	T	ug/L			-			1700	
Total Suspended Solids	TSS	Т	ug/L				< 4000 U	< 4000 U	< 3300 U	
(None)										
1-Chloropropane	540-54-5	Т	ug/L						0.38	
Field Parameters										
Temperature	Temp	T	deg C							-
Specific Conductance	Cond	T	umhos/cm			-			81	
Dissolved Oxygen	DO	T	ug/L							-
pH	pН	T	pH units			-			7.25	
Oxidation Reduction Potential	ORP	T	mV							
Turbidity	Turb	Т	NTU						1.5	
Turbidity FOG	·									
Fats/Oils/Grease (Non-Polar)	FOG-NP	Т	ug/L						< 4700 U	
Fats/Oils/Grease (Polar)	FOG-P	Т	ug/L						< 4700 U	
Fats/Oils/Grease (Total)	FOG-TOT	Т	ug/L						< 4700 U	

					Location Date Sample	SWRX-PRE 05/16/2017 SPM-SWRX-PRE-SW-20170516	SWRX-PRE 06/08/2017 SPM-SWRX-PRE-SW-20170608	SWRX-PRE 09/19/2017 SPM-SWRX-PRE-SW-20170919	SWRX-PRE 03/04/2021 PRERX-SW-210304	SWRX-PRE 05/27/2021 PRERX-SW-210527
Analyte	CAS RN	Fraction	Unit	SPM_RI_STORMWATER_SLS 2022.02	Screening Level Source					
Hardness	Hard	T	ug/L	_2022.02	Octobring Edver Source		14000 14000			
Nitrate as Nitrogen	14797-55-8	Т	ug/L							
Sulfate	14808-79-8	T	ug/L							
Total Dissolved Solids	TDS	Т	ug/L				21000			
Total Organic Carbon	TOC	T	ug/L				16000		7990	9610
Total Suspended Solids	TSS	Т	ug/L				13000		11000	6000 J
(None)										
1-Chloropropane	540-54-5	Т	ug/L							
Field Parameters										
Temperature	Temp	T	deg C				18.58			
Specific Conductance	Cond	T	umhos/cm				48			
Dissolved Oxygen	DO	T	ug/L				8150			
pH	pH	T	pH units				6.68			
Oxidation Reduction Potential	ORP	Т	mV				120			
Turbidity	Turb	T	NTU				24			
FOG										
Fats/Oils/Grease (Non-Polar)	FOG-NP	Т	ug/L							
Fats/Oils/Grease (Polar)	FOG-P	T	ug/L							
Fats/Oils/Grease (Total)	FOG-TOT	T	ug/L	-						

Bold - detected
Blue Shaded - Detected result exceeded screening level
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
D - Dissolved Fraction (iffitered) sample result
T - Total Fraction (unfiltered) sample result
CPAHs = carcinogenic polycyclic aromatic hydrocarbons
HPAH = high molecular weight PAH
LPAH = low molecular weight PAH
"--" - indicates results not available
ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components
ND = 0 - calculated using 0 for non-detected components

					Location Date Sample	SWRX-PRE 05/27/2021 PRERX-SW-FD-210527
				SPM_RI_STORMWATER_SLS		
Analyte	CAS_RN	Fraction	Unit	_2022.02	Screening Level Source	
Hardness	Hard	Т	ug/L			
Nitrate as Nitrogen	14797-55-8	T	ug/L			
Sulfate	14808-79-8	T	ug/L			
Total Dissolved Solids	TDS	Т	ug/L			
Total Organic Carbon	TOC	T	ug/L			9330
Total Suspended Solids	TSS	Т	ug/L			9000 J
(None)						
1-Chloropropane	540-54-5	T	ug/L			
Field Parameters						
Temperature	Temp	T	deg C			
Specific Conductance	Cond	T	umhos/cm			
Dissolved Oxygen	DO	T	ug/L			
pH	pН	T	pH units			
Oxidation Reduction Potential	ORP	T	mV			
Turbidity	Turb	T	NTU			
FOG						
Fats/Oils/Grease (Non-Polar)	FOG-NP	T	ug/L			
Fats/Oils/Grease (Polar)	FOG-P	T	ug/L			
Fats/Oils/Grease (Total)	FOG-TOT	T	ug/L			

				Location Date Sample	CB-01 02/11/2016 SPM-CB-01-02112016	CB-02 02/11/2016 SPM-CB-02-02112016	CB-02 04/20/2021 CB-02-210420	CB-03 02/11/2016 SPM-CB-03-02112016
Analyte	CAS RN	Unit	SPM_RI_CB- SOLIDS_SLS 2022.02	SPM_RI_CB- SOLIDS_SLS _2022.02_alp_custo m field 1				
Analyte Metals	CAS_RN	Unit	_2022.02	III_IIEIQ_I				
Antimony	7440-36-0	mg/kg						
Arsenic	7440-38-2	ma/ka	93	SMS 2nd LAET			18.4	
Beryllium	7440-41-7	mg/kg						
Cadmium	7440-43-9	mg/kg	6.7	SMS 2nd LAET			3.85	
Chromium	7440-47-3	mg/kg	270	SMS 2nd LAET	-	-	116	1
Copper	7440-50-8	mg/kg	390	SMS 2nd LAET			1850	
Lead	7439-92-1	mg/kg	530	SMS 2nd LAET			396	
Mercury	7439-97-6	mg/kg	0.59	SMS 2nd LAET			0.178 J	
Nickel	7440-02-0	mg/kg			-	-	68.7	
Selenium	7782-49-2	mg/kg		0110 0 1111	-			
Silver	7440-22-4	mg/kg	6.1	SMS 2nd LAET				
Thallium	7440-28-0 7440-66-6	mg/kg mg/kg	960	SMS 2nd LAET			7330	
Zinc Butyl Tin Ions	/440-00-6	mg/kg	960	SIVIS ZNO LAET	-		7330	
Dibutyltin Ion	14488-53-0	mg/kg		T I			0.262 J	
Monobutyltin	78763-54-9	mg/kg		† †			0.262 J 0.128 J	
Tetrabutyltin	1461-25-2	mg/kg					< 0.00499 UJ	
Tributyltin Ion	36643-28-4	mg/kg					0.91 J	
Polychlorinated Biphenyl Aroclors								
Aroclor 1016	12674-11-2	mg/kg			< 4 U	< 0.04 U	< 0.0436 U	< 20 U
Aroclor 1221	11104-28-2	mg/kg			< 4 U	< 0.04 U	< 0.0436 U	< 20 U
Aroclor 1232	11141-16-5	mg/kg			< 4 U	< 0.04 U	< 0.0436 U	< 20 U
Aroclor 1242	53469-21-9	mg/kg			< 4 U	< 0.04 U	< 0.0436 U	< 20 U
Aroclor 1248	12672-29-6	mg/kg			< 4 U	< 0.04 U	0.0393 NJ	< 20 U
Aroclor 1254	11097-69-1	mg/kg			< 4 U	< 0.04 U	0.124	< 20 U
Aroclor 1260	11096-82-5	mg/kg			< 4 U	0.57	0.301	< 20 U
Aroclor 1262	37324-23-5	mg/kg			< 4 U	< 0.04 U	< 0.0436 U	< 20 U
Aroclor 1268 Total PCB Aroclors (ND=1/2 RL)	11100-14-4 T-PCBs1/2U	mg/kg	4	CMC On ALLAST	< 4 U < 18 U	< 0.04 U 0.730	< 0.0436 U 0.595 J	< 20 U < 90 U
Total PCB Aroclors (ND=1/2 RL) Total PCBs (Sum of Aroclors)	T-PCBs1/20	mg/kg mg/kg	1	SMS 2nd LAET SMS 2nd LAET	< 18 U	0.730	0.595 J 0.464	< 90 U
Polychlorinated Biphenyl Congeners	1-F CDS	HIQ/KQ		SIVIS ZIIU LAET	<u> </u>	0.57	0.404	<u> </u>
Total PCB Congeners	T-PCBCong	mg/kg			0.158	0.403		0.0507
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg			0.0000159 J	0.0000135		0.0000504 J
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg			0.0000159 J	0.0000135		0.00000504 J
Dioxins/Furans							•	
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg			-	-	0.0000761 J	-
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg					0.0000192 J	
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg					0.0000953 J	
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	mg/kg					0.0000953 J	
Total Dioxin/Furan TEQ (ND = 1x RDL)	DF-TEQ-1U	mg/kg						
Polycyclic Aromatic Hydrocarbons			ı	1				
1-Methylnaphthalene	90-12-0	mg/kg	0.07	CMC OndiAFT			0.248	
2-Methylnaphthalene	91-57-6 83-32-9	mg/kg mg/ka	0.67 0.5	SMS 2nd LAET SMS 2nd LAET			0.385 0.038 J	-
Acenaphthene Acenaphthylene	208-96-8	mg/kg mg/kg	1.3	SMS 2nd LAET			0.038 J 0.0743	
Anthracene	120-12-7	mg/kg mg/kg	0.96	SMS 2nd LAET	 		0.0743	
Benzo(a.h.i)pervlene	191-24-2	mg/kg	0.72	SMS 2nd LAET			0.0050	
Fluoranthene	206-44-0	mg/kg	2.5	SMS 2nd LAET			1.6	
Fluorene	86-73-7	mg/kg	0.54	SMS 2nd LAET			0.12	-
Naphthalene	91-20-3	mg/kg	2.1	SMS 2nd LAET	-		0.471	
Phenanthrene	85-01-8	mg/kg	1.5	SMS 2nd LAET		-	0.674	
Pyrene	129-00-0	mg/kg	3.3	SMS 2nd LAET			1.65	
Benz(a)anthracene	56-55-3	mg/kg	1.6	SMS 2nd LAET			0.372	
Benzo(a)pyrene	50-32-8	mg/kg	1.6	SMS 2nd LAET			0.399	
Benzo(b)fluoranthene	205-99-2	mg/kg					0.802	-
Benzo(j)fluoranthene	205-82-3	mg/kg			-	-	0.312	
Benzo(k)fluoranthene	207-08-9	mg/kg	0.0	CMC O			0.316	
Chrysene	218-01-9	mg/kg	2.8 0.23	SMS 2nd LAET			1.08	
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.23	SMS 2nd LAET	-	_	0.0957	

				Location Date Sample	CB-04 02/11/2016 SPM-CB-04-02112016	CB-05 02/11/2016 SPM-CB-05-02112016	CB-06 02/09/2016 SPM-CB-06-02092016
Analyte	CAS RN	Unit	SPM_RI_CB- SOLIDS_SLS 2022.02	SPM_RI_CB- SOLIDS_SLS _2022.02_alp_custo m field 1			
Metals							
Antimony	7440-36-0	mg/kg					
Arsenic	7440-38-2	mg/kg	93	SMS 2nd LAET			-
Beryllium	7440-41-7	mg/kg					
Cadmium	7440-43-9	mg/kg	6.7	SMS 2nd LAET			
Chromium	7440-47-3	mg/kg	270	SMS 2nd LAET			
Copper	7440-50-8	mg/kg	390	SMS 2nd LAET			
Lead	7439-92-1	mg/kg	530	SMS 2nd LAET			-
Mercury	7439-97-6	mg/kg	0.59	SMS 2nd LAET			-
Nickel	7440-02-0	mg/kg				-	=
Selenium	7782-49-2	mg/kg				-	-
Silver	7440-22-4	mg/kg	6.1	SMS 2nd LAET		-	-
Thallium	7440-28-0	mg/kg		0140 0==			
Zinc	7440-66-6	mg/kg	960	SMS 2nd LAET			
Butyl Tin Ions	44400 50 0		1	 			
Dibutyltin Ion	14488-53-0	mg/kg	 				
Monobutyltin	78763-54-9	mg/kg	 				
Tetrabutyltin	1461-25-2	mg/kg	 				
Tributyltin Ion Polychlorinated Biphenyl Aroclors	36643-28-4	mg/kg					
Aroclor 1016	12674-11-2	no a /lea	1	1	< 0.8 U	< 0.08 UJ	< 10 U
Aroclor 1016 Aroclor 1221	11104-28-2	mg/kg			< 0.8 U	< 0.08 UJ	< 10 U
Aroclor 1221 Aroclor 1232	11104-28-2	mg/kg mg/kg			< 0.8 U	< 0.08 UJ	< 10 U
Aroclor 1232 Aroclor 1242	53469-21-9				< 0.8 U	< 0.08 UJ	< 10 U
Aroclor 1242 Aroclor 1248	12672-29-6	mg/kg ma/ka			< 0.8 U	< 0.08 UJ	< 10 U
Aroclor 1248 Aroclor 1254	11097-69-1				< 0.8 U	0.08 UJ 0.35 J	< 10 U
Aroclor 1260	11096-82-5	mg/kg mg/kg		+	< 0.8 U	0.35 J 0.43 J	< 10 U
Aroclor 1260 Aroclor 1262	37324-23-5	mg/kg			< 0.8 U	< 0.08 UJ	< 10 U
Aroclor 1268	11100-14-4	mg/kg		†	< 0.8 U	< 0.08 UJ	< 10 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	1	SMS 2nd LAET	< 3.6 U	1.06 J	< 45 U
Total PCBs (Sum of Aroclors)	T-PCBs	mg/kg	1	SMS 2nd LAET	< 0.8 U	0.78	< 10 U
Polychlorinated Biphenyl Congeners	11000	mg/ng	· · · · · · · · · · · · · · · · · · ·	OWO ZIIG EXET	- 0.0 0	0.70	- 10 0
Total PCB Congeners	T-PCBCong	mg/kg			0.0634	0.453	1.19
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	ma/ka		1	0.00000419 J	0.0000213 J	0.000936
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg			0.00000419 J	0.0000213 J	0.0000936
Dioxins/Furans					0.00000	0.00002.00	
	ODD TEO ('C')						
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg			1		
	CDD TEQ-1/2U CDF TEQ-1/2U	mg/kg mg/kg					
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0)	CDF TEQ-1/2U DF-TEQ-0U						
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg					
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U DF-TEQ-0U	mg/kg mg/kg					
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U	mg/kg mg/kg mg/kg mg/kq			 	 	
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1U	mg/kg mg/kg mg/kg mg/ka mg/ka			 		
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1-1/2U 90-12-0 91-57-6	mg/kg mg/kg mg/kg mg/kg mg/kg	0.67	SMS 2nd LAET	 	 	
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/0 90-12-0 91-57-6 83-32-9	mg/kg mg/kg mg/kg mg/kg ma/ka ma/ka ma/ka mg/kg	0.5	SMS 2nd LAET			
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1-10 90-12-0 91-57-6 83-32-9 208-96-8	mg/kg mg/kg mg/kg mg/kg ma/ka ma/ka ma/ka ma/ka	0.5 1.3	SMS 2nd LAET SMS 2nd LAET		 	
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Anthracene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7	mg/kg mg/kq mg/kq mg/kq mg/kq mg/kq mg/kq mg/kq mg/kq mg/kq	0.5 1.3 0.96	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET		 	
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/1U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2	mg/kg mg/kg mg/kg mg/kg mg/kg mg/ka mg/ka mg/ka mg/kg mg/kg mg/kg	0.5 1.3 0.96 0.72	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET		 	
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0	mg/kg mg/kg mg/kg mg/kg mg/kg ma/ka ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg	0.5 1.3 0.96 0.72 2.5	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET			
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7	mg/kg mg/kg mg/kg mg/kg mg/ka ma/ka ma/ka ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg	0.5 1.3 0.96 0.72 2.5 0.54	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET			
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene	CDF TEQ-1/2U DF-TEQ-01/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3	mg/kg mg/kg mg/kg mg/kg mg/ka ma/ka ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 1.3 0.96 0.72 2.5 0.54 2.1	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET			
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8	mg/kg mg/kg mg/kg mg/kg mg/kg ma/ka ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 1.3 0.96 0.72 2.5 0.54 2.1 1.5	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET			
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1x RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Pyrene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0	mg/kg mg/kg mg/kg mg/kg mg/ka ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 1.3 0.96 0.72 2.5 0.54 2.1 1.5 3.3	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET			
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Phenanthrene Pyrene Benzo(a)anthracene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3	mg/kg mg/kg mg/kg mg/kg mg/ka ma/ka ma/ka ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 1.3 0.96 0.72 2.5 0.54 2.1 1.5 3.3	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET			
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U DF-TEQ-1/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8	mg/kg mg/kg mg/kg mg/kg mg/kg ma/ka ma/ka ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 1.3 0.96 0.72 2.5 0.54 2.1 1.5 3.3	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET			
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenanthrene Phyrene Benzo(a)aptyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1U DF-TEQ-1U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	mg/kg mg/kg mg/kg mg/kg mg/kg ma/ka ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 1.3 0.96 0.72 2.5 0.54 2.1 1.5 3.3	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET			
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthene Acenaphthylene Anthracene Benzo(g,h,i)perylene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene Benzo(a)aunthracene Benzo(a)byrene Benzo(a)byrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U DF-TEQ-11/2U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	mg/kg mg/kg mg/kg mg/kg mg/kg mg/ka ma/ka ma/ka ma/ka mg/kg	0.5 1.3 0.96 0.72 2.5 0.54 2.1 1.5 3.3	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET			
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 0) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Total Dioxin/Furan TEQ (ND = 1/2 RDL) Polycyclic Aromatic Hydrocarbons 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(g,h,i)perylene Fluoranthene Fluoranthene Phenanthrene Phenanthrene Phenanthrene Phyrene Benzo(a)aptyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene	CDF TEQ-1/2U DF-TEQ-0U DF-TEQ-1U DF-TEQ-1U 90-12-0 91-57-6 83-32-9 208-96-8 120-12-7 191-24-2 206-44-0 86-73-7 91-20-3 85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	mg/kg mg/kg mg/kg mg/kg mg/kg ma/ka ma/ka ma/ka mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 1.3 0.96 0.72 2.5 0.54 2.1 1.5 3.3	SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET SMS 2nd LAET			

				Location Date Sample	CB-06 04/20/2021 CB-06-210420	CB-07 02/11/2016 SPM-CB-07-02112016	CB-08 02/11/2016 SPM-CB-08-02112016	CB-09 10/08/2015 SP-CB-09
Analyte	CAS_RN	Unit	SPM_RI_CB- SOLIDS_SLS _2022.02	SPM_RI_CB- SOLIDS_SLS _2022.02_alp_custo m_field_1				
Metals	T		1	1				
Antimony	7440-36-0	mg/kg						20
Arsenic	7440-38-2	mg/kg	93	SMS 2nd LAET	13.9			22
Beryllium	7440-41-7	mg/kg	0.7	0140.0 11.457				0.23 J
Cadmium	7440-43-9	mg/kg	6.7	SMS 2nd LAET	1.19			6.5
Chromium	7440-47-3 7440-50-8	mg/kg	270	SMS 2nd LAET	26.3			160
Copper		mg/kg	390	SMS 2nd LAET	771			1800
Lead	7439-92-1 7439-97-6	mg/kg	530 0.59	SMS 2nd LAET	64.5			430
Mercury	7439-97-6	mg/kg	0.59	SMS 2nd LAET	0.06 J			0.19
Nickel	7782-49-2	mg/kg			27.3			180
Selenium		mg/kg	0.4	0140 0 11 457				1.2
Silver	7440-22-4	mg/kg	6.1	SMS 2nd LAET				2.1
Thallium	7440-28-0	mg/kg	000	OMO OTALIAET				0.3 J
Zinc Butyl Tin Ions	7440-66-6	mg/kg	960	SMS 2nd LAET	303			5600
	14488-53-0	ma e: /1	1	T T	0.0447 J			T
Dibutyltin Ion		mg/kg						
Monobutyltin	78763-54-9	mg/kg			0.0499 J			
Tetrabutyltin	1461-25-2 36643-28-4	mg/kg			< 0.00499 UJ			
Tributyltin Ion Polychlorinated Biphenyl Aroclors	36643-28-4	mg/kg			0.0715 J			
Aroclor 1016	12674-11-2	no a /lea	1	Т	< 0.0199 U	< 0.08 UJ	< 0.04 UJ	< 0.022 U
Aroclor 1016 Aroclor 1221	11104-28-2	mg/kg			< 0.0199 U	< 0.08 UJ	< 0.04 UJ	< 0.022 U < 0.024 U
Aroclor 1221 Aroclor 1232	11104-28-2	mg/kg			< 0.0199 U	< 0.08 UJ	< 0.04 UJ	< 0.024 U
Aroclor 1232 Aroclor 1242	53469-21-9	mg/kg			< 0.0199 U	< 0.08 UJ	< 0.04 UJ	< 0.024 U
Aroclor 1242 Aroclor 1248	12672-29-6	mg/kg			< 0.0199 U	< 0.08 UJ	< 0.04 UJ	< 0.022 U
Aroclor 1248 Aroclor 1254	11097-69-1	mg/kg			0.102 J	0.34 J	< 0.04 UJ	< 0.022 U
	11097-69-1	mg/kg			0.102 J 0.11 J	< 0.08 UJ	0.04 UJ	< 0.022 U
Aroclor 1260 Aroclor 1262	37324-23-5	mg/kg			< 0.0199 U	< 0.08 UJ	< 0.04 UJ	0.54
Aroclor 1262 Aroclor 1268	11100-14-4	mg/kg mg/kg			< 0.0199 U	< 0.08 UJ	< 0.04 UJ	
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	ma/ka	1	SMS 2nd LAET	0.282 J	0.66 J	0.64 J	0.608 J
Total PCB Aroclors (ND=1/2 RL) Total PCBs (Sum of Aroclors)	T-PCBs 1/20	mg/kg	1	SMS 2nd LAET	0.262 J 0.212 J	0.86 3	0.48	0.608 3
Polychlorinated Biphenyl Congeners	I-PCBS	mg/kg		SIVIS ZIIQ LAET	U.Z1Z J	0.34	0.46	0.54
Total PCB Congeners	T-PCBCong	ma/ka		T T		0.289	0.138	0.896 J
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	ma/ka			-	0.289 0.0000198 J	0.136 0.00000757 J	0.00000170
Total PCB TEQ (ND = 1/2 RDL)	PCB-TEQ-1/2U	mg/kg				0.0000198 J	0.00000737 J	0.0000852
Dioxins/Furans	FCB-1EQ-1/20	my/ky				0.00001983	0.000007573	0.0000052
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg		T T				0.00004718 J
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg						0.000047183
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg	+		-			0.00001193
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	mg/kg		†				0.000059 J
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/20	mg/kg		†				0.000059 J
Polycyclic Aromatic Hydrocarbons	, <u>B. 12</u> q.10	mgmg						
1-Methylnaphthalene	90-12-0	mg/kg			0.0369 J			3.1
2-Methylnaphthalene	91-57-6	ma/ka	0.67	SMS 2nd LAET	0.0716			4.6
Acenaphthene	83-32-9	mg/kg	0.5	SMS 2nd LAET	0.0359 J			0.17 J
Acenaphthylene	208-96-8	ma/ka	1.3	SMS 2nd LAET	0.0195 J			< 0.088 U
Anthracene	120-12-7	mg/kg	0.96	SMS 2nd LAET	0.0503			0.19 J
Benzo(g,h,i)perylene	191-24-2	mg/kg	0.72	SMS 2nd LAET	0.386			0.36
Fluoranthene	206-44-0	mg/kg	2.5	SMS 2nd LAET	1			1.6 J
Fluorene	86-73-7	mg/kg	0.54	SMS 2nd LAET	0.112			0.51
	91-20-3	mg/kg	2.1	SMS 2nd LAET	0.00974 J			2.2
Naphthalene	91-20-3			SMS 2nd LAET	0.651			0.88 J
Naphthalene Phenanthrene	85-01-8	ma/ka	1.5					
Phenanthrene	85-01-8	mg/kg ma/ka			0.77			2.2 J
Phenanthrene Pyrene	85-01-8 129-00-0	mg/kg	3.3	SMS 2nd LAET	0.77 0.207			2.2 J 0.27 J
Phenanthrene Pyrene Benz(a)anthracene	85-01-8				0.77 0.207 0.208			2.2 J 0.27 J 0.37 J
Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene	85-01-8 129-00-0 56-55-3	mg/kg mg/kg	3.3 1.6	SMS 2nd LAET SMS 2nd LAET	0.207			0.27 J
Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	mg/kg mg/kg mg/kg mg/kg	3.3 1.6	SMS 2nd LAET SMS 2nd LAET	0.207 0.208			0.27 J 0.37 J
Phenanthrene Pyrene Benz(a)anthracene Benzo(a)byrene Benzo(b)fluoranthene Benzo(h)fluoranthene	85-01-8 129-00-0 56-55-3 50-32-8 205-99-2 205-82-3	mg/kg mg/kq mg/kq mg/kq	3.3 1.6	SMS 2nd LAET SMS 2nd LAET	0.207 0.208 0.442 0.123	 		0.27 J 0.37 J
Phenanthrene Pyrene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	85-01-8 129-00-0 56-55-3 50-32-8 205-99-2	mg/kg mg/kg mg/kg mg/kg	3.3 1.6	SMS 2nd LAET SMS 2nd LAET	0.207 0.208 0.442	 		0.27 J 0.37 J

				Location Date Sample	CB-09 02/11/2016 SPM-CB-09-02112016	SWRX-PRE 10/08/2014 SP-OWS-01 (SOLID)	SWRX-PRE 04/20/2021 PRERX-210420
Analyte	CAS_RN	Unit	SPM_RI_CB- SOLIDS_SLS _2022.02	SPM_RI_CB- SOLIDS_SLS _2022.02_alp_custo m_field_1	J 92 00 02 120 10	5. 5.15 (1. (552.15)	
Metals	1						1
Antimony	7440-36-0	mg/kg			-	16	-
Arsenic	7440-38-2	mg/kg	93	SMS 2nd LAET		69	6.63
Beryllium	7440-41-7	mg/kg				0.21 J	
Cadmium	7440-43-9	mg/kg	6.7	SMS 2nd LAET		16	0.96
Chromium	7440-47-3	mg/kg	270	SMS 2nd LAET	-	330	24.9
Copper	7440-50-8	mg/kg	390	SMS 2nd LAET		14000	1370
Lead	7439-92-1	mg/kg	530	SMS 2nd LAET		940	91.3
Mercury	7439-97-6	mg/kg	0.59	SMS 2nd LAET		1.7	0.199 J
Nickel	7440-02-0 7782-49-2	mg/kg				230	17.2
Selenium		mg/kg	0.4	CMC OI LAFT		1.6	-
Silver	7440-22-4	mg/kg	6.1	SMS 2nd LAET	<u></u>	1.2	-
Fhallium Zina	7440-28-0	mg/kg	960	CMC Ond LAFT		< 1.1 U	383
Zinc Butyl Tin Ions	7440-66-6	mg/kg	960	SMS 2nd LAET		2900	383
	14400 52.0	no a /lea	T	T		1	0.742 1
Dibutyltin Ion	14488-53-0	mg/kg		+	-	-	0.742 J
Monobutyltin Tetrabutyltin	78763-54-9 1461-25-2	mg/kg		+		-	0.404 J 0.0212 J
	36643-28-4	mg/kg				-	
Tributyltin Ion Polychlorinated Biphenyl Aroclors	36643-28-4	mg/kg				-	2.06 J
Aroclor 1016	12674-11-2	no a /lea	1	Т Т	< 0.4 U	0.04.1	< 0.0198 U
Aroclor 1016 Aroclor 1221	11104-28-2	mg/kg			< 0.4 U	0.21 J	< 0.0198 U
Aroclor 1221 Aroclor 1232	11141-16-5	mg/kg			< 0.4 U	< 0.031 U < 0.031 U	< 0.0198 U
Aroclor 1232 Aroclor 1242	53469-21-9	mg/kg			< 0.4 U	< 0.031 U < 0.028 U	< 0.0198 U
Aroclor 1242 Aroclor 1248	12672-29-6	mg/kg			< 0.4 U	< 0.028 U	< 0.0198 U
Aroclor 1248 Aroclor 1254	11097-69-1	mg/kg				2.2	0.137
Aroclor 1254 Aroclor 1260	11097-69-1	mg/kg			1.5 < 0.4 U	1.7 J	0.137
Aroclor 1260 Aroclor 1262	37324-23-5	mg/kg			< 0.4 U	1.7 J	< 0.0198 U
Aroclor 1262 Aroclor 1268	11100-14-4	mg/kg mg/kg			< 0.4 U	-	< 0.0198 U
Total PCB Aroclors (ND=1/2 RL)	T-PCBs1/2U	mg/kg	1	SMS 2nd LAET	3.1	4.17 J	0.396
Total PCBs (Sum of Aroclors)	T-PCBs1/20	mg/kg	1	SMS 2nd LAET	1.5	4.17 3	0.327
Polychlorinated Biphenyl Congeners	I-PCBS	HIQ/KQ		SIVIS ZIIQ LAE I	1.5	4.11	0.321
Total PCB Congeners	T-PCBCong	ma/ka			0.735	3.96 J	
Total PCB TEQ (ND = 0)	PCB-TEQ-0U	mg/kg		+	0.733 0.0000289 J	0.000229	
Total PCB TEQ (ND = 0)	PCB-TEQ-00	mg/kg			0.0000289 J	0.000229	-
Dioxins/Furans	FCB-TEQ-1/20	Hig/kg			0.0000289 J	0.000243	
Total CDD TEQ (ND = 1/2 RDL)	CDD TEQ-1/2U	mg/kg				0.000775 J	-
Total CDF TEQ (ND = 1/2 RDL)	CDF TEQ-1/2U	mg/kg		+		0.0007733 0.000111 J	
Total Dioxin/Furan TEQ (ND = 0)	DF-TEQ-0U	mg/kg		+		0.00089 J	
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	DF-TEQ-1/2U	mg/kg		+		0.00089 J	
Total Dioxin/Furan TEQ (ND = 1x RDL)	DF-TEQ-1U	mg/kg				0.00089 J	
Polycyclic Aromatic Hydrocarbons	DI TEQ 10	тіцуліц				0.00000	
-Methylnaphthalene	90-12-0	mg/kg				2.8	0.0201 J
2-Methylnaphthalene	91-57-6	ma/ka	0.67	SMS 2nd LAET		4.7	0.0273 J
Acenaphthene	83-32-9	mg/kg	0.5	SMS 2nd LAET		< 0.057 U	0.00995 J
Acenaphthylene	208-96-8	mg/kg	1.3	SMS 2nd LAET		< 0.057 U	< 0.0498 U
Anthracene	120-12-7	mg/kg	0.96	SMS 2nd LAET		0.8	0.0244 J
Benzo(q,h,i)perylene	191-24-2	mg/kg	0.72	SMS 2nd LAET		1.4	0.192
luoranthene	206-44-0	mg/kg	2.5	SMS 2nd LAET		12	0.53
luorene	86-73-7	mg/kg	0.54	SMS 2nd LAET		0.95	0.0475 J
Naphthalene	91-20-3	mg/kg	2.1	SMS 2nd LAET		2	0.00342 J
Phenanthrene	85-01-8	mg/kg	1.5	SMS 2nd LAET		6.3	0.208
Pyrene	129-00-0	mg/kg	3.3	SMS 2nd LAET		11	0.463
Benz(a)anthracene	56-55-3	mg/kg	1.6	SMS 2nd LAET		3.4	0.164
Benzo(a)pyrene	50-32-8	mg/kg	1.6	SMS 2nd LAET		3.8	0.201
Benzo(b)fluoranthene	205-99-2	mg/kg					0.284
Benzo(j)fluoranthene	205-82-3	mg/kg					0.133
Benzo(k)fluoranthene	207-08-9	mg/kg					0.132
			0.0	0140 0 11 457			
Chrysene	218-01-9	mg/kg	2.8	SMS 2nd LAET		5.9	0.31

	<u></u>			Location	CB-01	CB-02	CB-02	CB-03
				Date Sample	02/11/2016 SPM-CB-01-02112016	02/11/2016 SPM-CB-02-02112016	04/20/2021 CB-02-210420	02/11/2016 SPM-CB-03-02112016
			1	SPM RI CB-	JEMI-00-01-02112010	3FW-05-02-02112010	GB-02-210420	3FW-00-03-02112016
			SPM_RI_CB-	SOLIDS_SLS				
			SOLIDS_SLS	_2022.02_alp_custo				
Analyte	CAS_RN	Unit	_2022.02	m_field_1				
ndeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.69	SMS 2nd LAET	-	-	0.344	
otal Benzofluoranthenes	TOTBFA	mg/kg	3.6	SMS 2nd LAET		-	1.43	
otal HPAHs otal LPAHs	T-HPAH T-LPAH	mg/kg mg/ka	17 5.2	SMS 2nd LAET SMS 2nd LAET			7.75 1.46 J	
otal PAHs (ND=0)	T-PAH	mg/kg	5.2	SIVIS ZIIU LAE I			9.21 J	
otal cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg					0.603	
otal cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg				-	0.603	
otal cPAHs TEQ (ND=1)	T-cPAH-1U	mg/kg			-			
Semivolatile Organic Compounds								
2,4,5-Trichlorophenol	95-95-4	mg/kg					< 0.999 U	
2,4,6-Trichlorophenol	88-06-2	mg/kg					< 0.999 U	
,4-Dichlorophenol	120-83-2	mg/kg				-	< 0.999 U	
,4-Dimethylphenol	105-67-9	mg/kg	0.029	SMS 2nd LAET			< 0.999 U	<u>-</u>
,4-Dinitrophenol ,4-Dinitrotoluene	51-28-5 121-14-2	mg/kg mg/kg	 	+			< 2 UJ < 0.999 U	<u></u>
,4-Dinitrotoluene	606-20-2	mg/kg					< 0.999 U	
!-Chloronaphthalene	91-58-7	mg/kg		†			< 0.2 U	
2-Chlorophenol	95-57-8	mg/kg					< 0.2 U	
2-Methylphenol	95-48-7	mg/kg	0.063	SMS 2nd LAET			< 0.2 U	
-Nitroaniline	88-74-4	mg/kg				-	< 0.999 U	
-Nitrophenol	88-75-5	mg/kg					< 0.2 U	
3,3'-Dichlorobenzidine	91-94-1	mg/kg					< 0.999 U	
-Nitroaniline	99-09-2	mg/kg			-	-	< 0.999 U	
,6-Dinitro-2-methylphenol	534-52-1	mg/kg				-	< 2 UJ	
-Bromophenyl phenyl ether	101-55-3	mg/kg					< 0.2 U	
-Chloro-3-methylphenol -Chloroaniline	59-50-7 106-47-8	mg/kg					< 0.999 U < 0.999 U	
I-Chlorophenyl phenyl ether	7005-72-3	mg/kg mg/kg			 	 	< 0.2 UJ	
-Methylphenol	106-44-5	mg/kg	0.67	SMS 2nd LAET			12.4	
l-Nitroaniline	100-01-6	mg/kg	0.07	OWO ZHO EXCT		-	< 0.999 U	
l-Nitrophenol	100-02-7	mg/kg			-		< 0.999 UJ	
Benzoic acid	65-85-0	mg/kg	0.65	SMS 2nd LAET		-	0.68 J	
Benzyl alcohol	100-51-6	mg/kg	0.073	SMS 2nd LAET			5.89	
Benzyl butyl phthalate	85-68-7	mg/kg	0.9	SMS 2nd LAET			0.7 J	
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg				-	< 0.2 U	
Bis(2-chloroethoxy)methane	111-91-1	mg/kg					< 0.2 U	
Bis(2-chloroethyl) ether Bis(2-ethylhexyl) phthalate	111-44-4 117-81-7	mg/kg mg/kg	1.9	SMS 2nd LAET		 	< 0.2 U 89.1	
Carbazole	86-74-8	mg/kg	1.5	SIVIS ZIIU LAL I			0.162 J	
Dibenzofuran	132-64-9	mg/kg	0.54	SMS 2nd LAET			0.162 J 0.0476 J	
Diethyl phthalate	84-66-2	mg/kg	1.2	SMS 2nd LAET			< 0.2 U	
Dimethyl phthalate	131-11-3	mg/kg	0.16	SMS 2nd LAET		-	11.2 J	
Di-n-butyl phthalate	84-74-2	mg/kg	1.4	SMS 2nd LAET			6.75	
Di-n-octyl phthalate	117-84-0	mg/kg	6.2	SMS 2nd LAET			2.05	
lexachlorobenzene	118-74-1	mg/kg	0.07	SMS 2nd LAET			< 0.00199 UJ	-
lexachlorobutadiene	87-68-3	mg/kg	0.12	SMS 2nd LAET			< 0.00199 UJ	
lexachlorocyclopentadiene lexachloroethane	77-47-4 67-72-1	mg/kg	+	+			< 0.999 UJ < 0.2 U	
sophorone	78-59-1	mg/kg mg/kg		 			< 0.2 U	-
litrobenzene	98-95-3	mg/kg					< 0.2 U	
I-Nitrosodimethylamine	62-75-9	mg/kg						
I-Nitroso-di-n-propylamine	621-64-7	mg/kg					< 0.2 U	
I-Nitrosodiphenylamine	86-30-6	mg/kg	0.04	SMS 2nd LAET		-	< 0.2 U	
entachlorophenol	87-86-5	mg/kg	0.69	SMS 2nd LAET		-	< 0.999 U	
Phenol	108-95-2	mg/kg	1.2	SMS 2nd LAET			1.62	
Pesticides and Herbicides								
,4'-DDD	53-19-0	mg/kg		1		-	< 0.00398 UJ	
,4'-DDE	3424-82-6	mg/kg		 			< 0.00398 UJ	
<u>,4'-DDT</u> ,4'-DDD	789-02-6	mg/kg	-	+			< 0.00398 UJ	
,4'-DDD ,4'-DDE	72-54-8 72-55-9	mg/kg mg/kg	1	+			< 0.00398 UJ < 0.00398 UJ	
I,4'-DDE	50-29-3	mg/kg	1		==	-	< 0.00398 UJ	

				Location Date Sample	CB-04 02/11/2016 SPM-CB-04-02112016	CB-05 02/11/2016 SPM-CB-05-02112016	CB-06 02/09/2016 SPM-CB-06-02092016
			SPM_RI_CB-	SPM_RI_CB- SOLIDS_SLS	J VETTEVIV	5 52 55 VETTENTO	J 33-00-02002010
			SOLIDS_SLS	_2022.02_alp_custo			
Analyte	CAS_RN	Unit	_2022.02	m_field_1			
ndeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.69	SMS 2nd LAET			-
otal Benzofluoranthenes	TOTBFA	mg/kg	3.6	SMS 2nd LAET			-
otal HPAHs	T-HPAH	mg/kg	17 5.2	SMS 2nd LAET			-
otal LPAHs otal PAHs (ND=0)	T-LPAH T-PAH	mg/kg	5.2	SMS 2nd LAET	<u>-</u>	<u></u>	
otal PAHs (ND=0) otal cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg					
otal cPAHs TEQ (ND = 0) otal cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-00 T-cPAH-1/2U	mg/kg mg/kg				 	-
otal cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1U	mg/kg					
emivolatile Organic Compounds	1-CFAII-10	IIIq/Kq	·	<u> </u>	<u></u>		
4,5-Trichlorophenol	95-95-4	mg/kg					-
4,6-Trichlorophenol	88-06-2	mg/kg					
4-Dichlorophenol	120-83-2	mg/kg					
4-Dimethylphenol	105-67-9	mg/kg	0.029	SMS 2nd LAET			-
4-Dinitrophenol	51-28-5	mg/kg					
4-Dinitrotoluene	121-14-2	mg/kg					
6-Dinitrotoluene	606-20-2	mg/kg					
Chloronaphthalene	91-58-7	mg/kg					
Chlorophenol	95-57-8	mg/kg			-		
Methylphenol	95-48-7	mg/kg	0.063	SMS 2nd LAET			
Nitroaniline	88-74-4	mg/kg					
Nitrophenol	88-75-5	mg/kg					
3'-Dichlorobenzidine	91-94-1	mg/kg					
Nitroaniline	99-09-2	mg/kg					
6-Dinitro-2-methylphenol	534-52-1	mg/kg					
Bromophenyl phenyl ether	101-55-3	mg/kg					
Chloro-3-methylphenol	59-50-7	mg/kg					-
Chloroaniline	106-47-8	mg/kg					-
Chlorophenyl phenyl ether	7005-72-3	mg/kg					-
Methylphenol	106-44-5	mg/kg	0.67	SMS 2nd LAET			-
Nitroaniline	100-01-6	mg/kg		_			
-Nitrophenol	100-02-7 65-85-0	mg/kg	0.65	SMS 2nd LAET		 	
enzoic acid enzyl alcohol	100-51-6	mg/kg mg/kg	0.073	SMS 2nd LAET			
enzyl butyl phthalate	85-68-7	mg/kg	0.073	SMS 2nd LAET			
is(2-chloro-1-methylethyl) ether	108-60-1	mg/kg	0.9	SIVIS ZIIU LAE I			-
is(2-chloroethoxy)methane	111-91-1	mg/kg					
is(2-chloroethyl) ether	111-44-4	mg/kg					
is(2-ethylhexyl) phthalate	117-81-7	mg/kg	1.9	SMS 2nd LAET			
arbazole	86-74-8	mg/kg	1.0	OMO ENG ENGE			
ibenzofuran	132-64-9	mg/kg	0.54	SMS 2nd LAET			
iethyl phthalate	84-66-2	mg/kg	1.2	SMS 2nd LAET			_
imethyl phthalate	131-11-3	mg/kg	0.16	SMS 2nd LAET			_
-n-butyl phthalate	84-74-2	mg/kg	1.4	SMS 2nd LAET			
-n-octyl phthalate	117-84-0	mg/kg	6.2	SMS 2nd LAET			_
exachlorobenzene	118-74-1	mg/kg	0.07	SMS 2nd LAET			
exachlorobutadiene	87-68-3	mg/kg	0.12	SMS 2nd LAET			
exachlorocyclopentadiene	77-47-4	mg/kg					
exachloroethane	67-72-1	mg/kg					
phorone	78-59-1	mg/kg					
trobenzene	98-95-3	mg/kg					-
Nitrosodimethylamine	62-75-9	mg/kg		 			-
Nitroso-di-n-propylamine	621-64-7	mg/kg					-
Nitrosodiphenylamine	86-30-6	mg/kg	0.04	SMS 2nd LAET			-
entachlorophenol	87-86-5	mg/kg	0.69	SMS 2nd LAET			-
nenol	108-95-2	mg/kg	1.2	SMS 2nd LAET			
esticides and Herbicides	50.40.0		T	1			
4'-DDD	53-19-0	mg/kg		+ +			
4'-DDE	3424-82-6	mg/kg		+ +			
<u>4'-DDT</u> 4'-DDD	789-02-6	mg/kg		+			-
4'-DDE	72-54-8 72-55-9	mg/kg	1	+			
4-DDE 4'-DDT	72-55-9 50-29-3	mg/kg mg/kg	 	+	 	-	

				Location Date Sample	CB-06 04/20/2021 CB-06-210420	CB-07 02/11/2016 SPM-CB-07-02112016	CB-08 02/11/2016 SPM-CB-08-02112016	CB-09 10/08/2015 SP-CB-09
			SPM_RI_CB- SOLIDS_SLS	SPM_RI_CB- SOLIDS_SLS _2022.02_alp_custo				
Analyte	CAS_RN 193-39-5	Unit	_2022.02	m_field_1 SMS 2nd LAET	0.184			0.25
Indeno(1,2,3-cd)pyrene Total Benzofluoranthenes	TOTBFA	mg/kg mg/kg	3.6	SMS 2nd LAET	0.184			0.25 1 J
Total HPAHs	T-HPAH	mg/kg	17	SMS 2nd LAET	4.24			7
Total LPAHs	T-LPAH	mg/kg	5.2	SMS 2nd LAET	0.947 J			4
Total PAHs (ND=0)	T-PAH	mg/kg	<u> </u>		5.18 J	-		11.0
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg			0.316			0.53 J
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg			0.316			0.54 J
Total cPAHs TEQ (ND=1)	T-cPAH-1U	mg/kg						0.55 J
Semivolatile Organic Compounds			•					_
2,4,5-Trichlorophenol	95-95-4	mg/kg			< 0.997 U		-	< 0.44 U
2,4,6-Trichlorophenol	88-06-2	mg/kg			< 0.997 U			< 0.66 U
2,4-Dichlorophenol 2,4-Dimethylphenol	120-83-2 105-67-9	mg/kg	0.029	SMS 2nd LAET	< 0.997 U < 0.997 U			< 0.44 U < 0.44 U
2,4-Dinetnyiphenoi 2,4-Dinitrophenol	51-28-5	mg/kg	0.029	SIVIS ZNO LAET	< 1.99 UJ			< 4.4 U
2.4-Dinitrophenoi 2.4-Dinitrotoluene	121-14-2	mg/kg mg/kg	†	+	< 0.997 U		 	< 4.4 U
2.6-Dinitrotoluene	606-20-2	mg/kg	1	 	< 0.997 U			< 0.44 U
2-Chloronaphthalene	91-58-7	mg/kg	1	1	< 0.199 U			< 0.088 UJ
2-Chlorophenol	95-57-8	mg/kg			< 0.199 U		=	< 0.44 UJ
2-Methylphenol	95-48-7	mg/kg	0.063	SMS 2nd LAET	< 0.199 U			< 0.44 UJ
2-Nitroaniline	88-74-4	mg/kg			< 0.997 U			< 0.44 U
2-Nitrophenol	88-75-5	mg/kg			< 0.199 U			< 0.44 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg			< 0.997 U			< 0.88 U
3-Nitroaniline	99-09-2	mg/kg			< 0.997 U			< 0.44 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg			< 1.99 UJ			< 4.4 U
4-Bromophenyl phenyl ether	101-55-3	mg/kg			< 0.199 U		-	< 0.44 U
4-Chloro-3-methylphenol	59-50-7	mg/kg			< 0.997 U			< 0.44 U
4-Chloroaniline	106-47-8	mg/kg			< 0.997 U			< 0.44 U
4-Chlorophenyl phenyl ether 4-Methylphenol	7005-72-3 106-44-5	mg/kg	0.67	SMS 2nd LAET	< 0.199 UJ 1.44			< 0.44 UJ 0.33 J
4-Nitroaniline	100-44-5	mg/kg mg/kg	0.07	SIVIS ZIIU LAET	< 0.997 U			< 0.44 U
4-Nitrophenol	100-01-0	ma/ka			< 0.997 UJ			< 4.4 U
Benzoic acid	65-85-0	ma/ka	0.65	SMS 2nd LAET	< 1.99 UJ		_	< 11 U
Benzyl alcohol	100-51-6	mg/kg	0.073	SMS 2nd LAET	0.38		=	3.6 J
Benzyl butyl phthalate	85-68-7	mg/kg	0.9	SMS 2nd LAET	2.99 J	-		1.8
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg			< 0.199 U		-	
Bis(2-chloroethoxy)methane	111-91-1	mg/kg			< 0.199 U			< 0.44 UJ
Bis(2-chloroethyl) ether	111-44-4	mg/kg			< 0.199 U			< 0.44 UJ
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	1.9	SMS 2nd LAET	33.2			37
Carbazole	86-74-8	mg/kg			0.135 J		-	< 0.44 UJ
Dibenzofuran	132-64-9	mg/kg	0.54	SMS 2nd LAET	0.054			< 0.44 UJ
Diethyl phthalate	84-66-2 131-11-3	mg/kg	1.2 0.16	SMS 2nd LAET SMS 2nd LAET	< 0.199 U 1.42		 	< 0.88 U 3.9 J
Dimethyl phthalate Di-n-butyl phthalate	84-74-2	mg/kg mg/kg	1.4	SMS 2nd LAET	0.52			3.9 3
Di-n-octyl phthalate	117-84-0	mg/kg	6.2	SMS 2nd LAET	1.82			1.2 J
Hexachlorobenzene	118-74-1	mg/kg	0.07	SMS 2nd LAET	< 0.00197 U			< 0.22 U
Hexachlorobutadiene	87-68-3	mg/kg	0.12	SMS 2nd LAET	< 0.00197 U			< 0.22 U
Hexachlorocyclopentadiene	77-47-4	mg/kg			< 0.997 UJ			< 0.44 U
Hexachloroethane	67-72-1	mg/kg			< 0.199 U			< 0.44 UJ
Isophorone	78-59-1	mg/kg			< 0.199 U			< 0.44 U
Nitrobenzene	98-95-3	mg/kg	ļ	1	< 0.199 U			< 0.44 U
N-Nitrosodimethylamine	62-75-9	mg/kg		1			-	< 4.4 U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.04	0140.0 11.457	< 0.199 U			< 0.44 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.04	SMS 2nd LAET	< 0.199 U			< 0.22 UJ
Pentachlorophenol	87-86-5	mg/kg	0.69 1.2	SMS 2nd LAET	0.341 J			< 0.88 U
Phenol Pesticides and Herbicides	108-95-2	mg/kg	1.2	SMS 2nd LAET	0.198 J			0.37 J
2.4'-DDD	53-19-0	mg/kg	1	1	< 0.00393 U			T
2.4'-DDE	3424-82-6	ma/ka	1	1	< 0.00393 U			
2.4'-DDT	789-02-6	mg/kg	1		< 0.00393 U			
4,4'-DDD	72-54-8	mg/kg	İ	1	< 0.00393 U			-
4,4'-DDE	72-55-9	mg/kg			< 0.00393 U			
4,4'-DDT	50-29-3	mg/kg			< 0.0197 U			1

				Location Date Sample	CB-09 02/11/2016 SPM-CB-09-02112016	SWRX-PRE 10/08/2014 SP-OWS-01 (SOLID)	SWRX-PRE 04/20/2021 PRERX-210420
Analyte	CAS RN	Unit	SPM_RI_CB- SOLIDS_SLS 2022.02	SPM_RI_CB- SOLIDS_SLS _2022.02_alp_custo m field 1	G G. G. G. C. C. C. G. G. G. G. G. G. G. G. G. G. G. G. G.	5. 6.16 6. (652.15)	
Indeno(1,2,3-cd)pyrene	193-39-5	ma/ka	0.69	SMS 2nd LAET		1.8	0.166
Total Benzofluoranthenes	TOTBFA	mg/kg	3.6	SMS 2nd LAET		11	0.54
Total HPAHs	T-HPAH	mg/kg	17	SMS 2nd LAET		50	2.48 J
Total LPAHs	T-LPAH	mg/kg	5.2	SMS 2nd LAET		10	0.312 J
Total PAHs (ND=0)	T-PAH	mg/kg				60.0	2.80 J
Total cPAHs TEQ (ND = 0)	T-cPAH-0U	mg/kg				5.5	0.283 J
Total cPAHs TEQ (ND = 1/2 RDL)	T-cPAH-1/2U	mg/kg				5.5	0.283 J
Total cPAHs TEQ (ND=1)	T-cPAH-1U	mg/kg				5.5	
Semivolatile Organic Compounds							
2,4,5-Trichlorophenol	95-95-4	mg/kg				< 0.29 U	< 0.998 U
2,4,6-Trichlorophenol	88-06-2	mg/kg				< 0.43 U	< 0.998 U
2,4-Dichlorophenol	120-83-2	mg/kg				< 0.29 U	< 0.998 U
2,4-Dimethylphenol	105-67-9	mg/kg	0.029	SMS 2nd LAET		< 0.29 U	< 0.998 U
2,4-Dinitrophenol	51-28-5	mg/kg	+	+		< 2.9 U	< 2 UJ
2,4-Dinitrotoluene	121-14-2	mg/kg	+			< 0.29 U	< 0.998 U
2,6-Dinitrotoluene	606-20-2 91-58-7	mg/kg	+	+		< 0.29 U < 0.057 U	< 0.998 U < 0.2 U
2-Chloronaphthalene	91-58-7 95-57-8	mg/kg	+	+ +	 	< 0.057 U < 0.29 U	< 0.2 U
2-Chlorophenol 2-Methylphenol	95-57-8 95-48-7	mg/kg mg/kg	0.063	SMS 2nd LAET		< 0.29 U < 0.29 U	< 0.2 U
	95-48-7 88-74-4		0.063	SIVIS 2Nd LAET		< 0.29 U	< 0.20 < 0.998 U
2-Nitroaniline 2-Nitrophenol	88-74-4 88-75-5	mg/kg				< 0.29 U	< 0.998 U < 0.2 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg mg/kg				< 0.57 U	< 0.998 U
3-Nitroaniline	99-09-2	mg/kg				< 0.29 U	< 0.998 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg				< 2.9 U	< 2 UJ
4-Bromophenyl phenyl ether	101-55-3	mg/kg				< 0.29 U	< 0.2 U
4-Chloro-3-methylphenol	59-50-7	mg/kg				17	< 0.998 U
4-Chloroaniline	106-47-8	mg/kg				< 0.29 U	< 0.998 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg				< 0.29 U	< 0.2 UJ
4-Methylphenol	106-44-5	mg/kg	0.67	SMS 2nd LAET		6.4	< 0.2 U
4-Nitroaniline	100-01-6	mg/kg				< 0.29 U	< 0.998 U
4-Nitrophenol	100-02-7	mg/kg				< 2.9 U	< 0.998 UJ
Benzoic acid	65-85-0	mg/kg	0.65	SMS 2nd LAET		9.7	< 2 UJ
Benzyl alcohol	100-51-6	mg/kg	0.073	SMS 2nd LAET		63	3.53
Benzyl butyl phthalate	85-68-7	mg/kg	0.9	SMS 2nd LAET		4.3	0.228 J
Bis(2-chloro-1-methylethyl) ether	108-60-1	mg/kg					< 0.2 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg				< 0.29 U	< 0.2 U
Bis(2-chloroethyl) ether	111-44-4	mg/kg				< 0.29 U	< 0.2 U
Bis(2-ethylhexyl) phthalate	117-81-7	mg/kg	1.9	SMS 2nd LAET		110	8.2 J
Carbazole	86-74-8	mg/kg				0.85	< 0.2 U
Dibenzofuran	132-64-9	mg/kg	0.54	SMS 2nd LAET		< 0.29 U	0.0154 J
Diethyl phthalate	84-66-2	mg/kg	1.2	SMS 2nd LAET		< 0.57 U	< 0.2 U
Dimethyl phthalate	131-11-3 84-74-2	mg/kg	0.16 1.4	SMS 2nd LAET		70 6.6	2.34 0.669
Di-n-butyl phthalate Di-n-octyl phthalate	84-74-2 117-84-0	mg/kg	1.4 6.2	SMS 2nd LAET SMS 2nd LAET			
Hexachlorobenzene	117-84-0 118-74-1	mg/kg mg/kg	0.07	SMS 2nd LAET		4.4 < 0.14 U	0.346 < 0.00198 U
Hexachlorobutadiene	87-68-3	mg/kg mg/kg	0.07	SMS 2nd LAET		< 0.14 U	< 0.00198 U
Hexachlorocyclopentadiene Hexachlorocyclopentadiene	77-47-4	mg/kg mg/kg	U. 1Z	SIVIS ZIIU LAE I		< 0.14 U < 0.29 U	< 0.00198 UJ
Hexachloroethane	67-72-1	mg/kg	†	+ +		< 0.29 U	< 0.996 UJ
Isophorone	78-59-1	mg/kg	1	+		< 0.29 U	< 0.2 U
Nitrobenzene	98-95-3	mg/kg	İ	1		< 0.29 U	< 0.2 U
N-Nitrosodimethylamine	62-75-9	mg/kg				< 2.9 U	-
N-Nitroso-di-n-propylamine	621-64-7	mg/kg				< 0.29 U	< 0.2 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	0.04	SMS 2nd LAET		< 0.14 U	< 0.2 U
Pentachlorophenol	87-86-5	mg/kg	0.69	SMS 2nd LAET		1.5	< 0.998 U
Phenol	108-95-2	mg/kg	1.2	SMS 2nd LAET		2.2	< 0.2 U
Pesticides and Herbicides							
2,4'-DDD	53-19-0	mg/kg				-	< 0.0356 U
2,4'-DDE	3424-82-6	mg/kg					< 0.00395 U
2,4'-DDT	789-02-6	mg/kg					< 0.00395 U
4,4'-DDD	72-54-8	mg/kg					< 0.00395 U
4,4'-DDE	72-55-9	mg/kg					< 0.00395 U
4,4'-DDT	50-29-3	mg/kg				-	< 0.087 U

				Location Date Sample	CB-01 02/11/2016 SPM-CB-01-02112016	CB-02 02/11/2016 SPM-CB-02-02112016	CB-02 04/20/2021 CB-02-210420	CB-03 02/11/2016 SPM-CB-03-02112016
			SPM_RI_CB- SOLIDS_SLS	SPM_RI_CB- SOLIDS_SLS _2022.02_alp_custo	Of MI-OD-01-02112010	3. m 35 42 42 1 120 13	05-02-2-10-420	G1 M-G5-00-02112010
Analyte	CAS_RN	Unit	_2022.02	m_field_1			< 0.00199 UJ	
Aldrin Alpha-BHC	309-00-2 319-84-6	mg/kg mg/kg			 		< 0.00199 UJ < 0.00199 UJ	
Beta-BHC	319-85-7	mg/kg					< 0.00199 UJ	
cis-Chlordane	5103-71-9	mg/kg					< 0.00199 UJ	
cis-Nonachlor	5103-73-1	mg/kg					< 0.00398 UJ	
Delta-BHC	319-86-8	mg/kg					< 0.00199 UJ	
Dieldrin	60-57-1	mg/kg					< 0.00398 UJ	
Endosulfan I	959-98-8	mg/kg					< 0.00199 UJ	
Endosulfan II	33213-65-9	mg/kg					< 0.00398 UJ	
Endosulfan Sulfate	1031-07-8	mg/kg					< 0.00398 UJ	
Endrin	72-20-8	mg/kg					< 0.00398 UJ	
Endrin Aldehyde	7421-93-4	mg/kg					< 0.00398 UJ	
Endrin ketone	53494-70-5 76-44-8	mg/kg					< 0.00398 UJ < 0.00199 UJ	
Heptachlor Heptachlor Epoxide	1024-57-3	mg/kg mg/kg	 	+	 		< 0.00199 UJ < 0.0159 UJ	
Lindane	58-89-9	mg/kg mg/kg	 				< 0.0159 UJ	
Methoxychlor	72-43-5	mg/kg		+			< 0.00199 UJ	
Mirex	2385-85-5	mg/kg				-	< 0.00398 UJ	
Oxychlordane	27304-13-8	mg/kg	İ				< 0.00398 UJ	
trans-Chlordane	5103-74-2	mg/kg					< 0.00199 UJ	
trans-Nonachlor	39765-80-5	mg/kg					< 0.00398 UJ	
Total Petroleum Hydrocarbons								
Gasoline Range Organics	TPH-GRO	mg/kg					72.2	==
Diesel Range Organics	TPH-DRO	mg/kg					2240 J	
Motor Oil Range Organics	TPH-ORO	mg/kg					10700 J	
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg					12900 J	
Volatile Organic Compounds		1	•			_		
1-Chloropropane	540-54-5	mg/kg						
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg					< 0.00395 U	
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	71-55-6 79-34-5	mg/kg					< 0.00395 U < 0.00395 U	
1,1,2-Tetrachioroethane	79-34-5 79-00-5	mg/kg mg/kg					< 0.00395 U	
1,1,2-Trichloroetrialle	76-13-1	mg/kg					< 0.00393 U	
1,1-Dichloroethane	75-34-3	mg/kg					< 0.00791 U	
1,1-Dichloroethene	75-35-4	mg/kg					< 0.00395 U	
1,1-Dichloropropene	563-58-6	ma/ka					< 0.00395 U	
1,2,3-Trichlorobenzene	87-61-6	mg/kg				-	< 0.0198 U	
1,2,3-Trichloropropane	96-18-4	mg/kg					< 0.00791 U	
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.051	SMS 2nd LAET			< 0.0198 U	==
1,2,4-Trimethylbenzene	95-63-6	mg/kg					0.18	
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg					< 0.0198 U	
1,2-Dibromoethane (EDB)	106-93-4	mg/kg					< 0.00395 U	
1,2-Dichlorobenzene	95-50-1	mg/kg	0.05	SMS 2nd LAET			< 0.00395 U	
1,2-Dichloroethane (EDC)	107-06-2	mg/kg	 	1			< 0.00395 U	
1,2-Dichloropropane	78-87-5	mg/kg	 	+			< 0.00395 U	
1,3,5-Trimethylbenzene	108-67-8 541-73-1	mg/kg	 	+			0.0539	
1,3-Dichlorobenzene 1,3-Dichloropropane	541-73-1 142-28-9	mg/kg	 				< 0.00395 U < 0.00395 U	
1,4-Dichloro-2-Butene	110-57-6	mg/kg mg/kg	 	+			< 0.00395 U	
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SMS 2nd LAET			< 0.00395 UJ	
2,2-Dichloropropane	594-20-7	mg/kg	0.11	S.VIO ZIIG E/ LE I			< 0.00395 U	
2-Butanone	78-93-3	mg/kg	İ				0.156	
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg					< 0.0198 U	
2-Chlorotoluene	95-49-8	mg/kg					< 0.00395 U	
2-Hexanone	591-78-6	mg/kg					< 0.0198 U	
2-Pentanone	107-87-9	mg/kg					< 0.0198 U	
4-Chlorotoluene	106-43-4	mg/kg					< 0.00395 U	
4-Methyl-2-pentanone	108-10-1	mg/kg					< 0.0198 U	
Acetone	67-64-1	mg/kg					1.99 J	
Acrolein	107-02-8	mg/kg					< 0.0198 U	
Acrylonitrile	107-13-1	mg/kg	1				< 0.0198 U	
Benzene	71-43-2	mg/kg	1	1		-	0.0218	

				Location Date Sample	CB-04 02/11/2016 SPM-CB-04-02112016	CB-05 02/11/2016 SPM-CB-05-02112016	CB-06 02/09/2016 SPM-CB-06-02092016
			SPM_RI_CB- SOLIDS_SLS	SPM_RI_CB- SOLIDS_SLS _2022.02_alp_custo	0 02 0. 02	G 02 03 02 1 120 10	o o. o. o. o. o. o. o. o. o. o. o.
Analyte	CAS_RN	Unit	_2022.02	m_field_1			
Aldrin	309-00-2	mg/kg					
Alpha-BHC	319-84-6 319-85-7	mg/kg					
Beta-BHC	319-85-7 5103-71-9	mg/kg					
cis-Chlordane cis-Nonachlor	5103-71-9	mg/kg					
Delta-BHC	319-86-8	mg/kg mg/kg					
Dieldrin	60-57-1	mg/kg					
Endosulfan I	959-98-8	mg/kg				 	
Endosulfan II	33213-65-9	mg/kg					-
Endosulfan Sulfate	1031-07-8	mg/kg					
Endrin	72-20-8	mg/kg					
Endrin Aldehyde	7421-93-4	mg/kg			-		
Endrin ketone	53494-70-5	mg/kg	1				
Heptachlor	76-44-8	mg/kg					
Heptachlor Epoxide	1024-57-3	mg/kg					
Lindane	58-89-9	mg/kg			-		-
Methoxychlor	72-43-5	mg/kg					-
Mirex	2385-85-5	mg/kg					
Oxychlordane	27304-13-8	mg/kg					
trans-Chlordane	5103-74-2	mg/kg					
trans-Nonachlor	39765-80-5	mg/kg					
Total Petroleum Hydrocarbons	_						
Gasoline Range Organics	TPH-GRO	mg/kg					-
Diesel Range Organics	TPH-DRO	mg/kg					-
Motor Oil Range Organics	TPH-ORO	mg/kg			-		-
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg			-		
Volatile Organic Compounds							
1-Chloropropane	540-54-5	mg/kg					
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg					
1,1,1-Trichloroethane	71-55-6	mg/kg					
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	79-34-5 79-00-5	mg/kg					-
1,1,2-Trichloroethane	79-00-5 76-13-1	mg/kg				 	
1,1-Dichloroethane	75-13-1 75-34-3	mg/kg					
1.1-Dichloroethane	75-34-3	mg/kg mg/kg					
1,1-Dichloropropene	563-58-6	mg/kg					
1,2,3-Trichlorobenzene	87-61-6	mg/kg					
1,2,3-Trichloropropane	96-18-4	mg/kg					
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.051	SMS 2nd LAET			-
1.2.4-Trimethylbenzene	95-63-6	ma/ka	0.001	ONIO ZIIG E/IE I			-
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg					
1,2-Dibromoethane (EDB)	106-93-4	mg/kg					
1,2-Dichlorobenzene	95-50-1	mg/kg	0.05	SMS 2nd LAET			
1,2-Dichloroethane (EDC)	107-06-2	mg/kg					-
1,2-Dichloropropane	78-87-5	mg/kg					-
1,3,5-Trimethylbenzene	108-67-8	mg/kg					-
1,3-Dichlorobenzene	541-73-1	mg/kg					
1,3-Dichloropropane	142-28-9	mg/kg			-		
1,4-Dichloro-2-Butene	110-57-6	mg/kg					
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SMS 2nd LAET			
2,2-Dichloropropane	594-20-7	mg/kg					
2-Butanone	78-93-3	mg/kg					
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg	ļ				
2-Chlorotoluene	95-49-8	mg/kg	ļ				
2-Hexanone	591-78-6	mg/kg					
2-Pentanone	107-87-9	mg/kg	ļ				-
4-Chlorotoluene	106-43-4	mg/kg					
4-Methyl-2-pentanone	108-10-1	mg/kg	ļ				
Acetone	67-64-1	mg/kg	1				
Acrolein Acrylonitrile	107-02-8 107-13-1	mg/kg mg/kg	!				-

				Location Date Sample	CB-06 04/20/2021 CB-06-210420	CB-07 02/11/2016 SPM-CB-07-02112016	CB-08 02/11/2016 SPM-CB-08-02112016	CB-09 10/08/2015 SP-CB-09
			SPM_RI_CB-	SPM_RI_CB- SOLIDS_SLS	SB-00-210420	GI MI-OB-07-0E11E010	31 M 35 30 32 1 120 10	01 -02-00
Analyte	CAS RN	Unit	SOLIDS_SLS 2022.02	_2022.02_alp_custo m field 1				
Aldrin	309-00-2	mg/kg			< 0.00197 U			
Alpha-BHC	319-84-6	mg/kg			< 0.00197 U			
Beta-BHC	319-85-7	mg/kg			< 0.00197 U			
cis-Chlordane	5103-71-9	mg/kg			< 0.00197 U			
cis-Nonachlor	5103-73-1	mg/kg			< 0.00393 U			
Delta-BHC	319-86-8	mg/kg			< 0.00197 U			
Dieldrin	60-57-1	mg/kg			< 0.00393 U			
Endosulfan I	959-98-8	mg/kg			< 0.00197 U			
Endosulfan II	33213-65-9	mg/kg			< 0.00393 U			-
Endosulfan Sulfate	1031-07-8	mg/kg			< 0.00393 U			
Endrin	72-20-8	mg/kg			< 0.00393 U			
Endrin Aldehyde	7421-93-4	mg/kg			< 0.00393 U		-	
Endrin ketone	53494-70-5	mg/kg			< 0.00393 U			
Heptachlor	76-44-8	mg/kg		+	< 0.00197 U			
Heptachlor Epoxide	1024-57-3	mg/kg		+	< 0.00197 U			
Lindane	58-89-9	mg/kg		+ +	< 0.00197 U			
Methoxychlor	72-43-5	mg/kg	+	-	< 0.0197 U			
Mirex	2385-85-5	mg/kg	+	1	< 0.00393 U			
Oxychlordane	27304-13-8	mg/kg	+	+	< 0.00393 U	 	<u>-</u>	
trans-Chlordane	5103-74-2	mg/kg		+	< 0.00197 U			
trans-Nonachlor	39765-80-5	mg/kg			< 0.00393 U			
Total Petroleum Hydrocarbons Gasoline Range Organics	TPH-GRO	mg/kg		1	88.5			480
Diesel Range Organics	TPH-DRO	mg/kg			88.5 2710 J			5300
Motor Oil Range Organics	TPH-ORO	mg/kg		+	12800 J			14000
Diesel and Oil Extended Range Organics	TPH-ORO	mg/kg			12800 J 15500 J			19300
Volatile Organic Compounds	IFII-EXI	IIIg/kg			15500 5	<u></u>		19300
1-Chloropropane	540-54-5	mg/kg	T	1				< 1.1 U
1.1.1.2-Tetrachloroethane	630-20-6	mg/kg		+	< 0.00241 U			< 0.22 U
1,1,1-Trichloroethane	71-55-6	ma/ka			< 0.00241 U			< 0.22 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg			< 0.00241 U			< 0.056 U
1,1,2-Trichloroethane	79-00-5	mg/kg			< 0.00241 U			< 0.067 U
1,1,2-Trichlorotrifluoroethane	76-13-1	mg/kg			< 0.00481 U			< 0.22 U
1,1-Dichloroethane	75-34-3	mg/kg			< 0.00241 U			< 0.22 U
1,1-Dichloroethene	75-35-4	mg/kg			< 0.00241 U			< 0.11 U
1,1-Dichloropropene	563-58-6	mg/kg			< 0.00241 U			< 0.22 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg			< 0.012 U			< 0.22 U
1,2,3-Trichloropropane	96-18-4	mg/kg			< 0.00481 U			< 0.22 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.051	SMS 2nd LAET	< 0.012 U			< 0.22 UJ
1,2,4-Trimethylbenzene	95-63-6	mg/kg			0.0256			3.3
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg			< 0.012 U			< 1.1 U
1,2-Dibromoethane (EDB)	106-93-4	mg/kg			< 0.00241 U			< 0.089 U
1,2-Dichlorobenzene	95-50-1	mg/kg	0.05	SMS 2nd LAET	< 0.00241 U			< 0.24 UJ
1,2-Dichloroethane (EDC)	107-06-2	mg/kg			< 0.00241 U			< 0.089 U
1,2-Dichloropropane	78-87-5	mg/kg			< 0.00241 U			< 0.067 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg			0.00638			0.61
1,3-Dichlorobenzene	541-73-1	mg/kg			< 0.00241 U			< 0.22 UJ
1,3-Dichloropropane	142-28-9	mg/kg			< 0.00241 U			< 0.22 U
1,4-Dichloro-2-Butene	110-57-6	mg/kg			< 0.012 U			< 1.1 U
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SMS 2nd LAET	< 0.00241 UJ			< 0.22 UJ
2,2-Dichloropropane	594-20-7	mg/kg			< 0.00241 U			< 0.22 U
2-Butanone	78-93-3	mg/kg			0.145			< 2.2 U
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg			< 0.012 U			< 1.1 U
				1	< 0.00241 U			< 0.22 U
2-Chlorotoluene	95-49-8	mg/kg						< 1.1 U
	95-49-8 591-78-6	mg/kg mg/kg			< 0.012 U			V 1.1 U
2-Chlorotoluene	95-49-8 591-78-6 107-87-9				< 0.012 U < 0.012 U	 		
2-Chlorotoluene 2-Hexanone 2-Pentanone 4-Chlorotoluene	95-49-8 591-78-6 107-87-9 106-43-4	mg/kg			< 0.012 U < 0.012 U < 0.00241 U			 < 0.22 U
2-Chlorotoluene 2-Hexanone 2-Pentanone 4-Chlorotoluene	95-49-8 591-78-6 107-87-9 106-43-4 108-10-1	mg/kg mg/kg mg/kg mg/kg			< 0.012 U < 0.012 U < 0.00241 U < 0.012 U			 < 0.22 U < 1.1 U
2-Chlorotoluene 2-Hexanone 2-Pentanone 4-Chlorotoluene 4-Methyl-2-pentanone	95-49-8 591-78-6 107-87-9 106-43-4 108-10-1 67-64-1	mg/kg mg/kq mg/kq			< 0.012 U < 0.012 U < 0.00241 U < 0.012 U 0.72			 < 0.22 U < 1.1 U < 2.2 U
2-Chlorotoluene 2-Hexanone 2-Pentanone 4-Chlorotoluene 4-Methyl-2-pentanone Acetone	95-49-8 591-78-6 107-87-9 106-43-4 108-10-1 67-64-1 107-02-8	mg/kg mg/kg mg/kg mg/kg			< 0.012 U < 0.012 U < 0.00241 U < 0.012 U 0.012 U 0.72 < 0.012 U	 		 < 0.22 U < 1.1 U < 2.2 U < 6.7 U
2-Chlorotoluene 2-Hexanone	95-49-8 591-78-6 107-87-9 106-43-4 108-10-1 67-64-1	mg/kg mg/kq mg/kq mg/kq mg/kq			< 0.012 U < 0.012 U < 0.00241 U < 0.012 U 0.72	 	 	 < 0.22 U < 1.1 U < 2.2 U

				Location Date Sample	CB-09 02/11/2016 SPM-CB-09-02112016	SWRX-PRE 10/08/2014 SP-OWS-01 (SOLID)	SWRX-PRE 04/20/2021 PRERX-210420
	040 794		SPM_RI_CB- SOLIDS_SLS	SPM_RI_CB- SOLIDS_SLS _2022.02_alp_custo	OF MI-OB-03-02 F12010	SI -OWS-VI (SOLID)	1 KEKK-210-20
Analyte Aldrin	CAS_RN 309-00-2	Unit mg/kg	_2022.02	m_field_1			< 0.00198 U
Alpha-BHC	319-84-6	mg/kg					< 0.00198 U
Beta-BHC	319-85-7	mg/kg					< 0.0356 U
cis-Chlordane	5103-71-9	mg/kg				_	< 0.00198 U
cis-Nonachlor	5103-73-1	mg/kg				-	< 0.087 U
Delta-BHC	319-86-8	mg/kg					< 0.00198 U
Dieldrin	60-57-1	mg/kg				-	< 0.0435 U
Endosulfan I	959-98-8	mg/kg				-	< 0.00198 U
Endosulfan II Endosulfan Sulfate	33213-65-9 1031-07-8	mg/kg mg/kg					< 0.00395 U < 0.00395 U
Endosulian Sulfate Endrin	72-20-8	mg/kg mg/kg					< 0.00395 U
Endrin Aldehyde	7421-93-4	mg/kg					< 0.00395 U
Endrin ketone	53494-70-5	mg/kg					< 0.00395 U
Heptachlor	76-44-8	mg/kg					< 0.00198 U
Heptachlor Epoxide	1024-57-3	mg/kg				-	< 0.00198 U
Lindane	58-89-9	mg/kg					< 0.00198 U
Methoxychlor	72-43-5	mg/kg					< 0.0198 U
Mirex	2385-85-5	mg/kg				-	< 0.00395 U
Oxychlordane	27304-13-8	mg/kg				-	< 0.00395 U
trans-Chlordane	5103-74-2	mg/kg				-	< 0.00198 U
trans-Nonachlor Total Petroleum Hydrocarbons	39765-80-5	mg/kg					< 0.00395 U
Gasoline Range Organics	TPH-GRO	mg/kg				340	16.1
Diesel Range Organics	TPH-DRO	mg/kg				6600	476
Motor Oil Range Organics	TPH-ORO	mg/kg				16000	1220
Diesel and Oil Extended Range Organics	TPH-EXT	mg/kg				22600	1700
Volatile Organic Compounds							
1-Chloropropane	540-54-5	mg/kg				< 0.71 U	
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg				< 0.27 U	< 0.00104 U
1,1,1-Trichloroethane	71-55-6	mg/kg				< 0.27 U	0.00319
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg				< 0.066 U	< 0.00104 U
1,1,2-Trichloroethane	79-00-5	mg/kg				< 0.08 U	< 0.00104 U
1,1,2-Trichlorotrifluoroethane 1,1-Dichloroethane	76-13-1 75-34-3	mg/kg mg/kg		+		< 0.27 U < 0.27 U	< 0.00208 U < 0.00104 U
1,1-Dichloroethane	75-35-4	mg/kg				< 0.13 U	< 0.00104 U
1,1-Dichloropropene	563-58-6	mg/kg				< 0.13 U	< 0.00104 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg				< 0.27 U	< 0.0052 U
1,2,3-Trichloropropane	96-18-4	mg/kg				< 0.27 U	< 0.00208 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.051	SMS 2nd LAET		< 0.14 U	< 0.0052 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg				4.6	0.0145
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg		1		< 1.3 U	< 0.0052 U
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.07	0140.0		< 0.11 U	< 0.00104 U
1,2-Dichlorobenzene	95-50-1	mg/kg	0.05	SMS 2nd LAET		< 0.16 U < 0.11 U	< 0.00104 U < 0.00104 U
1,2-Dichloroethane (EDC) 1,2-Dichloropropane	107-06-2 78-87-5	mg/kg mg/kg	+	+		< 0.11 U < 0.08 U	< 0.00104 U < 0.00104 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg mg/kg		+		< 0.08 U	0.00104 0
1,3-Dichlorobenzene	541-73-1	mg/kg		1		< 0.14 U	< 0.00104 U
1,3-Dichloropropane	142-28-9	mg/kg	1	1		< 0.27 U	< 0.00104 U
1,4-Dichloro-2-Butene	110-57-6	mg/kg				< 1.3 U	< 0.0052 U
1,4-Dichlorobenzene	106-46-7	mg/kg	0.11	SMS 2nd LAET		< 0.14 U	< 0.00104 U
2,2-Dichloropropane	594-20-7	mg/kg				< 0.27 U	< 0.00104 U
2-Butanone	78-93-3	mg/kg		1		< 2.7 U	0.0305
2-Chloroethyl Vinyl Ether	110-75-8	mg/kg		+		< 1.3 U	< 0.0052 UJ
2-Chlorotoluene	95-49-8	mg/kg	_	+		0.067 J	< 0.00104 U
2-Hexanone	591-78-6	mg/kg	+	+		< 1.3 U	< 0.0052 U
2-Pentanone 4-Chlorotoluene	107-87-9 106-43-4	mg/kg mg/kg	+	+		 < 0.27 U	0.00389 J < 0.00104 U
4-Methyl-2-pentanone	108-43-4	mg/kg mg/kg	+	+	 	0.27 U	0.00509 J
Acetone	67-64-1	ma/ka		1		< 2.7 U	0.386
Acrolein	107-02-8	mg/kg	1	1		< 8 U	< 0.0052 U
Acrylonitrile	107-13-1	mg/kg				< 1.3 U	< 0.0052 U

Table B.5. Catch Basin Solids Chemical Analytical Results

Project No. 190293, South Park Marina, Seattle, Washington

				Location	CB-01	CB-02	CB-02	CB-03
				Date	02/11/2016	02/11/2016	04/20/2021	02/11/2016
				Sample	SPM-CB-01-02112016	SPM-CB-02-02112016	CB-02-210420	SPM-CB-03-02112016
				SPM_RI_CB-				
			SPM_RI_CB-	SOLIDS_SLS				
			SOLIDS_SLS	_2022.02_alp_custo				
Analyte	CAS_RN	Unit	_2022.02	m_field_1				
Bromobenzene	108-86-1	mg/kg					< 0.00395 U	
Bromochloromethane	74-97-5	mg/kg					< 0.00395 U	
Bromodichloromethane	75-27-4	mg/kg					< 0.00395 U	
Bromoform	75-25-2	mg/kg					< 0.00395 U	
Bromomethane	74-83-9	mg/kg					0.00454	
Carbon Disulfide	75-15-0	mg/kg					0.0382 J	
Carbon Tetrachloride	56-23-5	mg/kg					< 0.00395 U	
Chlorobenzene	108-90-7	mg/kg					< 0.00395 U	
Chloroethane	75-00-3	mg/kg					< 0.00791 U	
Chloroform	67-66-3	mg/kg					< 0.00395 U	
Chloromethane	74-87-3	mg/kg					< 0.00395 U	
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg					< 0.00395 U	
cis-1,3-Dichloropropene	10061-01-5	mg/kg					< 0.00395 U	
Dibromochloromethane	124-48-1	mg/kg					< 0.00395 U	
Dibromomethane	74-95-3	mg/kg					< 0.00395 U	
Dichlorodifluoromethane	75-71-8	mg/kg					< 0.00395 U	
Ethylbenzene	100-41-4	mg/kg					0.0873	
Isopropylbenzene	98-82-8	mg/kg					0.00881	
m,p-Xylenes	179601-23-1	mg/kg					0.224	
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg					< 0.00395 U	
Methylene Chloride	75-09-2	mg/kg					< 0.0198 U	
Methyliodide	74-88-4	mg/kg					< 0.00395 U	
n-Butylbenzene	104-51-8	mg/kg					0.00361 J	
n-Propylbenzene	103-65-1	mg/kg					0.0201	
o-Xylene	95-47-6	mg/kg					0.118	
p-Isopropyltoluene	99-87-6	mg/kg					0.0147 J	
sec-Butylbenzene	135-98-8	mg/kg					0.00315 J	
Styrene	100-42-5	mg/kg					0.00708	
tert-Butylbenzene	98-06-6	mg/kg					< 0.00395 U	
Tetrachloroethene (PCE)	127-18-4	mg/kg			-		0.0334 J	
Toluene	108-88-3	mg/kg					3.97	
Total Xylenes	1330-20-7	mg/kg					0.342	
trans-1,2-Dichloroethene	156-60-5	mg/kg			-		< 0.00395 U	
trans-1,3-Dichloropropene	10061-02-6	mg/kg					< 0.00395 U	
Trichloroethene (TCE)	79-01-6	mg/kg			-		0.00359 J	
Trichlorofluoromethane	75-69-4	mg/kg			-		< 0.00791 U	
Vinyl Acetate	108-05-4	mg/kg			-		< 0.0198 U	
Vinyl Chloride	75-01-4	mg/kg	L				< 0.00395 U	
Conventionals								
Total Organic Carbon	TOC	%			7	7.735	18.1	5.84
Total Solids	TS	%	1	1			28.14	

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

				Location Date	CB-04 02/11/2016	CB-05 02/11/2016	CB-06 02/09/2016
				Sample	SPM-CB-04-02112016	SPM-CB-05-02112016	SPM-CB-06-02092016
				SPM_RI_CB-			
			SPM_RI_CB-	SOLIDS_SLS			
			SOLIDS_SLS	_2022.02_alp_custo			
Analyte	CAS_RN	Unit	_2022.02	m_field_1			
Bromobenzene	108-86-1	mg/kg					-
Bromochloromethane	74-97-5	mg/kg					-
Bromodichloromethane	75-27-4	mg/kg					-
Bromoform	75-25-2	mg/kg					-
Bromomethane	74-83-9	mg/kg					
Carbon Disulfide	75-15-0	mg/kg					
Carbon Tetrachloride	56-23-5	mg/kg					
Chlorobenzene	108-90-7	mg/kg					
Chloroethane	75-00-3	mg/kg					
Chloroform	67-66-3	mg/kg					
Chloromethane	74-87-3	mg/kg					
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg					
cis-1,3-Dichloropropene	10061-01-5	mg/kg			==		-
Dibromochloromethane	124-48-1	mg/kg			==		-
Dibromomethane	74-95-3	mg/kg					-
Dichlorodifluoromethane	75-71-8	mg/kg					-
Ethylbenzene	100-41-4	mg/kg					-
Isopropylbenzene	98-82-8	mg/kg					-
m,p-Xylenes	179601-23-1	mg/kg					-
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg					-
Methylene Chloride	75-09-2	mg/kg					-
Methyliodide	74-88-4	mg/kg			==		-
n-Butylbenzene	104-51-8	mg/kg			==		-
n-Propylbenzene	103-65-1	mg/kg					-
o-Xylene	95-47-6	mg/kg					-
p-Isopropyltoluene	99-87-6	mg/kg					-
sec-Butylbenzene	135-98-8	mg/kg					-
Styrene	100-42-5	mg/kg					-
tert-Butylbenzene	98-06-6	mg/kg					
Tetrachloroethene (PCE)	127-18-4	mg/kg					_
Toluene	108-88-3	mg/kg					_
Total Xylenes	1330-20-7	mg/kg					_
trans-1,2-Dichloroethene	156-60-5	mg/kg					
trans-1,3-Dichloropropene	10061-02-6	mg/kg					
Trichloroethene (TCE)	79-01-6	mg/kg					
Trichlorofluoromethane	75-69-4	mg/kg					
Vinyl Acetate	108-05-4	mg/kg					
Vinyl Chloride	75-01-4	mg/kg					
Conventionals		3F 3F		•			
Total Organic Carbon	TOC	%			12.1	11.9	8.54
Total Solids	TS	%		1			

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

Table B.5. Catch Basin Solids Chemical Analytical Results

Project No. 190293, South Park Marina, Seattle, Washington

				Location Date	CB-06 04/20/2021	CB-07 02/11/2016	CB-08 02/11/2016	CB-09 10/08/2015
				Sample	CB-06-210420	SPM-CB-07-02112016	SPM-CB-08-02112016	SP-CB-09
Azabas	CAS RN	11-2	SPM_RI_CB- SOLIDS_SLS 2022.02	SPM_RI_CB- SOLIDS_SLS _2022.02_alp_custo m field 1				
Analyte	108-86-1	Unit	_2022.02	m_tield_1	< 0.00241 U			< 0.22 U
Bromobenzene Bromochloromethane	74-97-5	mg/kg	+		< 0.00241 U < 0.00241 U			< 0.22 U
Bromodichloromethane	75-27-4	mg/kg			< 0.00241 U			< 0.22 U
	75-27-4 75-25-2	mg/kg			< 0.00241 U			< 0.22 U
Bromoform Bromomethane	75-25-2	mg/kg	+		0.00241 U			< 0.22 U
	74-83-9 75-15-0	mg/kg	+					< 0.78 U
Carbon Disulfide	75-15-0 56-23-5	mg/kg			0.00873 < 0.00241 U			< 0.22 U < 0.11 U
Carbon Tetrachloride		mg/kg						
Chlorosthone	108-90-7 75-00-3	mg/kg	+	+	< 0.00241 U < 0.00481 U			< 0.22 U < 2.2 U
Chloroethane	75-00-3 67-66-3	mg/kg	1	+	< 0.00481 U < 0.00241 U			< 2.2 U < 0.22 U
Chloroform Chloromethane	74-87-3	mg/kg	+		< 0.00241 U < 0.00241 U			< 0.22 U < 0.56 U
		mg/kg	+		*****			
cis-1,2-Dichloroethene (cDCE)	156-59-2	mg/kg	+		0.00224 J			< 0.22 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	+		< 0.00241 U			< 0.089 U
Dibromochloromethane	124-48-1	mg/kg			< 0.00241 U			< 0.22 U
Dibromomethane	74-95-3	mg/kg			< 0.00241 U	=		< 0.22 U
Dichlorodifluoromethane	75-71-8	mg/kg			< 0.00241 U	=		< 0.22 U
Ethylbenzene	100-41-4	mg/kg			0.0159			0.24
Isopropylbenzene	98-82-8	mg/kg			0.00226 J			0.05 J
m,p-Xylenes	179601-23-1	mg/kg			0.0191			0.43
Methyl tert-butyl ether (MTBE)	1634-04-4	mg/kg			< 0.00241 U	=		< 0.22 U
Methylene Chloride	75-09-2	mg/kg			< 0.012 U	=		< 0.14 U
Methyliodide	74-88-4	mg/kg			< 0.00241 U	=		< 1.1 U
n-Butylbenzene	104-51-8	mg/kg			< 0.00241 UJ	=		1.8
n-Propylbenzene	103-65-1	mg/kg	ļ		< 0.00241 U			0.18 J
o-Xylene	95-47-6	mg/kg	ļ		0.0107			0.23
p-Isopropyltoluene	99-87-6	mg/kg	ļ		0.253			0.29
sec-Butylbenzene	135-98-8	mg/kg			< 0.00241 U			0.16 J
Styrene	100-42-5	mg/kg			< 0.00241 U			0.22
tert-Butylbenzene	98-06-6	mg/kg	ļ		< 0.00241 U			< 0.22 U
Tetrachloroethene (PCE)	127-18-4	mg/kg			0.00087 J			< 0.11 U
Toluene	108-88-3	mg/kg			10.9			0.38
Total Xylenes	1330-20-7	mg/kg			0.0298			0.66
trans-1,2-Dichloroethene	156-60-5	mg/kg	ļ		< 0.00241 U			< 0.22 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	ļ		< 0.00241 U			< 0.089 U
Trichloroethene (TCE)	79-01-6	mg/kg	1		< 0.00241 U			< 0.089 U
Trichlorofluoromethane	75-69-4	mg/kg	1		< 0.00481 U			< 0.22 U
Vinyl Acetate	108-05-4	mg/kg	1		< 0.012 U			< 1.1 U
Vinyl Chloride	75-01-4	mg/kg			< 0.00241 U			< 0.089 U
Conventionals								
Total Organic Carbon	TOC	%			11.5	11	4.11	11
Total Solids	TS	%			35.23	1		44.7

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH

LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

				Location	CB-09	SWRX-PRE	SWRX-PRE
				Date	02/11/2016	10/08/2014	04/20/2021
				Sample	SPM-CB-09-02112016	SP-OWS-01 (SOLID)	PRERX-210420
				SPM RI CB-	0. m 02 00 021 120 10	0. 0110 0. (002.2)	
			SPM RI CB-	SOLIDS SLS			
			SOLIDS SLS	2022.02 alp custo			
Analyte	CAS RN	Unit	2022.02	m field 1			
Bromobenzene	108-86-1	mg/kg	_2022.02	III_IICIU_I		< 0.27 U	< 0.00104 U
Bromochloromethane	74-97-5	mg/kg				< 0.27 U	< 0.00104 U
Bromodichloromethane	75-27-4	mg/kg				< 0.27 U	< 0.00104 U
Bromoform	75-25-2	ma/ka				< 0.27 U	< 0.00104 U
Bromomethane	74-83-9	mg/kg				< 0.93 U	< 0.00104 UJ
Carbon Disulfide	75-15-0	mg/kg				< 0.27 U	0.00632
Carbon Tetrachloride	56-23-5	mg/kg				< 0.13 U	< 0.00104 U
Chlorobenzene	108-90-7	mg/kg				< 0.13 U	< 0.00104 U
Chloroethane	75-00-3	mg/kg		+		< 2.7 U	< 0.00104 U
Chloroform	67-66-3	mg/kg	+	+		< 0.27 U	0.00032 J
Chloromethane	74-87-3	mg/kg		+		< 0.66 U	< 0.00104 U
cis-1.2-Dichloroethene (cDCE)	156-59-2	mg/kg				< 0.27 U	< 0.00104 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg				< 0.27 U	< 0.00104 U
Dibromochloromethane	124-48-1	mg/kg				< 0.11 U	< 0.00104 U
Dibromomethane	74-95-3	mg/kg				< 0.27 U	< 0.00104 U
Dichlorodifluoromethane	75-71-8	mg/kg				< 0.27 U	< 0.00104 U
Ethylbenzene	100-41-4	mg/kg				12	0.00104 0
Isopropylbenzene	98-82-8	ma/ka				0.83	0.00962
m.p-Xvlenes	179601-23-1	ma/ka				5.2	0.00125
Methyl tert-butyl ether (MTBE)	1634-04-4	ma/ka			 	< 0.27 U	< 0.00104 U
Methylene Chloride	75-09-2	ma/ka				< 0.27 U	0.00512 J
Methyliodide	74-88-4	mg/kg				< 1.3 U	0.00226
n-Butvlbenzene	104-51-8	mg/kg				1.2	< 0.00226 < 0.00104 U
n-Propylbenzene	103-65-1	mg/kg				1.1	0.00148
o-Xvlene	95-47-6	mg/kg				2.3	0.00148
p-Isopropyltoluene	99-87-6	mg/kg				0.4	0.00512
sec-Butvlbenzene	135-98-8	mg/kg				0.37	0.00245 0.00072 J
Styrene	100-42-5	mg/kg				9.3	0.00108
tert-Butvlbenzene	98-06-6	mg/kg				< 0.27 U	< 0.00104 U
Tetrachloroethene (PCE)	127-18-4	mg/kg				0.81	< 0.00104 U
Toluene	108-88-3	ma/ka	+			8.8	0.00104 0
Total Xvlenes	1330-20-7	ma/ka	+	+		7.5	0.0253
trans-1,2-Dichloroethene	156-60-5	mg/kg		+		< 0.27 U	< 0.00104 U
trans-1,2-Dichloropropene	10061-02-6	mg/kg		+		< 0.27 U < 0.11 U	< 0.00104 U
Trichloroethene (TCE)	79-01-6	mg/kg mg/ka		+		0.57	< 0.00104 U
Trichloroethene (TCE) Trichlorofluoromethane	75-69-4	mg/kg		+	 	< 0.27 U	< 0.00104 U < 0.00208 U
Vinvl Acetate	108-05-4	mg/kg	+	+		< 1.3 U	< 0.00208 U
Vinyl Acetate Vinyl Chloride	75-01-4	mg/kg		+		< 0.11 U	< 0.0052 U
Conventionals	75-01-4	mg/kg				V 0.11 U	V 0.00104 U
Total Organic Carbon	TOC	%			5.85	23	1.42
Total Solids	TS	%		+	5.85	34.4	71.15
i utai Julius	15	70	ı	1	-	34.4	/ 1.10

Bold - detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

HPAH = high molecular weight PAH LPAH = low molecular weight PAH

TEQ = Toxic Equivalency

"--" - indicates results not available

ND = 1/2 RDL - calculated using 1/2 the reporting limit for non-detected components

Table B.6. Statistical Summary of All Soil Chemical Analytical Results - Vadose Zone Project No. 190293, South Park Marina, Seattle, Washington

Analyte Metals	Units	Preliminary Screening Level (PSL)	Number of Sampled Locations	Number of Samples (excluding Field Dups)	Number of Samples with Detected Concentration	Frequency of Detection	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Number of Detected Exceedances of PSL	Frequency of Detected Exceedance	Maximum Exceedance Factor	Number of NonDetects with Reporting Limit Above Preliminary Screening Level	Min RL	Max RL	Date of Last Screening Level Exceedance
Arsenic	mg/kg	7.3	30	52	52	100%	1.3	4.85	27.4	6	12%	4	0	0.2	0.26	3/11/2021
Cadmium	mg/kg	0.77	30	52	49	94%	0.04	2.02	31.4	10	19%	41	0	0.1	0.54	3/11/2021
Chromium	mg/kg	48.2	30	52	52	100%	6.04	43.2	465	8	15%	10	0	0.5	1.51	3/11/2021
Copper	mg/kg	36.4	30	52	52	100%	7.97	94.8	2470	19	37%	68	0	0.5	5.62	3/11/2021
Lead	mg/kg	50 0.07	30 30	52 46	52 46	100% 100%	1.18 0.00523	259 1.84	3180 29.5	17 17	33% 37%	64 421	0	0.1 0.0189	1.12 0.397	3/11/2021 3/11/2021
Mercury Nickel	mg/kg mg/kg	48	23	44	44	100%	6.57	14.9	52	17	2%	1	0	0.0169	0.65	3/10/2021
Silver	mg/kg	0.323	7	8	8	100%	0.038	0.133	0.299	'	0%	1	0	0.5	0.03	3/10/2021
Zinc	mg/kg	86	30	52	52	100%	17.3	176	1510	20	38%	18	0	4.2	56.2	3/11/2021
Organometallic																
Dibutyltin Ion	mg/kg		14	22	12	55%	0.0024	0.0753	0.617		0%			0.00571	0.0578	
Monobutyltin	mg/kg		14	22	12	55%	0.00197	0.0402	0.243		0%			0.00402	0.0408	
Tetrabutyltin	mg/kg	0.0004	14	22	45	0%	0.00057	0.0044	4.40	40	0%	500	_	0.00493	0.05	0/44/0004
Tributyltin Ion Other SVOCs	mg/kg	0.0021	14	22	15	68%	0.00057	0.0944	1.12	10	45%	533	7	0.00381	0.0386	3/11/2021
2,4,5-Trichlorophenol	mg/kg	0.00133	18	28		0%	1	1		0 1	0%		28	0.0994	0.998	3/11/2021
2,4,5-Trichlorophenol	mg/kg	6.97	18	28	1	4%	0.026	0.026	0.026	<u> </u>	0%	0	20	0.0994	0.996	J/ 1 1/2UZ I
2,4-Dichlorophenol	mg/kg	0.0694	18	28		0%	3.020	3.320	3.320	0	0%	<u>_</u>	28	0.0994	0.998	3/11/2021
2,4-Dimethylphenol	mg/kg	0.029	25	36		0%				0	0%		36	0.045	5	3/11/2021
2,4-Dinitrophenol	mg/kg	0.4	18	28		0%				0	0%		1	0.199	2	3/5/2021
2,4-Dinitrotoluene	mg/kg	0.00279	18	28		0%				0	0%		28	0.0994	0.998	3/11/2021
2,6-Dinitrotoluene	mg/kg	0.667	18	28 28		0%				0	0% 0%		1	0.0994	0.998	3/5/2021
2-Chloronaphthalene 2-Chlorophenol	mg/kg mg/kg	5.36 0.2	18 18	28		0% 0%	+				0%			0.0199 0.0199	0.2	
2-Methylphenol	mg/kg	0.069	25	36	1	3%	0.0902	0.0902	0.0902	1	3%	1	6	0.02	0.02	3/5/2021
2-Nitroaniline	mg/kg	800	18	28	·	0%	0.0002	0.0002	0.0002	·	0%	•		0.0994	0.998	0/0/2021
2-Nitrophenol	mg/kg		18	28		0%					0%			0.0199	0.2	
3,3'-Dichlorobenzidine	mg/kg	3.43E-05	18	28		0%				0	0%		28	0.0994	0.998	3/11/2021
3-Nitroaniline	mg/kg	0.404	18	28		0%					0%			0.0994	0.998	0/44/0004
4,6-Dinitro-2-methylphenol	mg/kg	0.134	18 18	28 28		0% 0%				0	0% 0%		28	0.199 0.0199	0.2	3/11/2021
4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol	mg/kg mg/kg	0.498	18	28		0%				0	0%		1	0.0199	0.2	3/5/2021
4-Chloroaniline	mg/kg	5	18	28		0%				Ů	0%		·	0.0994	0.998	0/0/2021
4-Chlorophenyl phenyl ether	mg/kg		18	28		0%					0%			0.0199	0.2	
4-Methylphenol	mg/kg	0.67	25	36	2	6%	0.0189	0.02	0.021	0	0%	0	2	0.0199	0.02	10/1/2007
4-Nitroaniline	mg/kg	50	18	28	8	29%	0.125	2.03	9.12		0%	0		0.0994	0.998	
4-Nitrophenol	mg/kg	7 0.65	18 25	28 36	4	0% 11%	0.0623	0.0827	0.112	0	0% 0%	0	6	0.0994 0.199	0.998	3/5/2021
Benzoic acid Benzyl alcohol	mg/kg mg/kg	0.057	25	36	4	11%	0.0623	0.0627	0.531	2	6%	9	6	0.199	0.2	3/11/2021
Benzyl butyl phthalate	mg/kg	0.00361	25	36	9	25%	0.0096	0.296	2.2	9	25%	609	27	0.0199	0.02	3/11/2021
Bis(2-chloro-1-methylethyl) ether	mg/kg	5.09	18	28	1	4%	0.0234	0.0234	0.0234		0%	0		0.0199	0.0199	
Bis(2-chloroethoxy)methane	mg/kg		18	28		0%					0%			0.0199	0.2	
Bis(2-chloroethyl) ether	mg/kg	0.000331	18	28		0%				0	0%		28	0.0199	0.2	3/11/2021
Bis(2-ethylhexyl) phthalate	mg/kg	0.102	25	36	15	42%	0.0466	0.836	7	7	19%	69	5	0.0497	0.05	3/11/2021
Carbazole Dibenzofuran	mg/kg mg/kg	0.54	18 31	28 47	<u>4</u> 11	14% 23%	0.0091 0.00162	0.0302 0.00648	0.0682 0.0199	0	0% 0%	0	2	0.0199 0.00433	0.02 0.015	10/1/2007
Diethyl phthalate	mg/kg	0.2	25	36	6	17%	0.00102	0.00048	0.982	2	6%	5	4	0.0199	0.013	3/9/2021
Dimethyl phthalate	mg/kg	0.071	25	36	13	36%	0.0095	0.16	0.543	8	22%	8	4	0.0199	0.2	3/11/2021
Di-n-butyl phthalate	mg/kg	0.283	25	36	18	50%	0.0054	0.227	1.3	4	11%	5	3	0.0199	0.2	3/11/2021
Di-n-octyl phthalate	mg/kg	6.2	25	36	2	6%	0.0165	0.0222	0.0279		0%	0		0.0199	0.02	
Hexachlorobenzene	mg/kg	8.02E-06	25	36		0%				0	0%		36	0.0005	0.99	3/11/2021
Hexachlorobutadiene Hexachlorocyclopentadiene	mg/kg mg/kg	0.000212 0.032	30 18	48 28		0% 0%		-		0	0% 0%		48 28	0.0005 0.0994	0.48 0.998	3/23/2021 3/11/2021
Hexachloroethane	mg/kg	0.002	18	28	1	4%	0.0143	0.0143	0.0143	1	4%	89	27	0.0994	0.998	3/11/2021
Isophorone	mg/kg	0.583	18	28	3	11%	0.0094	0.543	1.59	1	4%	3	0	0.02	0.02	3/4/2021
Nitrobenzene	mg/kg	0.638	18	28	7	25%	0.0111	0.0693	0.143		0%	0		0.0199	0.2	
N-Nitroso-di-n-propylamine	mg/kg	0.000551	18	28		0%	2			0	0%		28	0.0199	0.2	3/11/2021
N-Nitrosodiphenylamine	mg/kg	0.028	25	36	1	3%	0.0506	0.0506	0.0506	1	3%	2	6	0.02	0.02	3/5/2021
Pentachlorophenol Phenol	mg/kg mg/kg	3.17E-05 0.42	25 25	36 36	8	22% 19%	0.0652 0.0097	0.956 0.0287	2.8 0.0798	8	22% 0%	88328 0	28	0.0994 0.0199	0.1 0.02	3/11/2021 10/1/2007
PAHs	ilig/kg	0.42	20	30	/	1970	0.0097	0.0207	0.0790	, <u> </u>	U /0	U	4	0.0188	0.02	10/1/2007
1-Methylnaphthalene	mg/kg	34.5	24	39	12	31%	0.00237	0.0128	0.0277		0%	0		0.00433	0.0248	
2-Methylnaphthalene	mg/kg	0.67	31	47	13	28%	0.00543	0.505	3	3	6%	4	0	0.00446	0.0248	10/1/2007
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Table B.6. Statistical Summary of All Soil Chemical Analytical Results - Vadose Zone Project No. 190293, South Park Marina, Seattle, Washington

Analyte	Units	Preliminary Screening Level (PSL)	Number of Sampled Locations	Number of Samples (excluding Field Dups)	Number of Samples with Detected Concentration	Frequency of Detection	Concentration	Average Detected Concentration	Maximum Detected Concentration	Number of Detected Exceedances of PSL	Frequency of Detected Exceedance	Maximum Exceedance Factor	Number of NonDetects with Reporting Limit Above Preliminary Screening Level	Min RL	Max RL	Date of Last Screening Level Exceedance
Acenaphthene	mg/kg	0.5	31	47	15	32%	0.00068	0.0207	0.25	0	0%	1	2	0.00446	0.0248	10/1/2007
Acenaphthylene	mg/kg	1.3	31	47	20	43%	0.00122	0.00687	0.0632	^	0%	0	4	0.00446	0.0249	40/4/0007
Anthracene	mg/kg	0.96 0.67	31 31	47 47	28 33	60% 70%	0.00093 0.00129	0.0237 0.0547	0.33 0.516	0	0% 0%	0	1 2	0.00446 0.00446	0.0249 0.0249	10/1/2007 10/1/2007
Benzo(g,h,i)perylene Fluoranthene	mg/kg mg/kg	1.7	31	47	40	85%	0.00129	0.0547	0.516	U	0%	0	2	0.00446	0.0249	10/1/2007
Fluorene	mg/kg	0.54	31	47	15	32%	0.0007	0.0806	0.67	1	2%	1	0	0.00433	0.0249	10/1/2007
Naphthalene	mg/kg	0.0389	31	49	14	29%	0.00092	0.41	2.5	5	10%	64	2	0.00446	0.015	3/11/2021
Phenanthrene	mg/kg	1.5	31	47	38	81%	0.00152	0.13	1.4		0%	1	2	0.00433	0.0249	0/11/2021
Pyrene	mg/kg	2.6	31	47	40	85%	0.00097	0.091	0.82		0%	0		0.00433	0.0249	
Benz(a)anthracene	mg/kg	2.0	31	47	36	77%	0.00083	0.033	0.24		0%			0.00433	0.0249	
Benzo(a)pyrene	mg/kg	0.00031	31	47	34	72%	0.00086	0.0312	0.276	34	72%	890	13	0.00433	0.0249	3/11/2021
Benzo(b)fluoranthene	mg/kg		31	47	33	70%	0.00144	0.0398	0.24		0%			0.00446	0.0249	
Benzo(j)fluoranthene	mg/kg		23	38	31	82%	0.00114	0.0193	0.135		0%			0.00446	0.0249	
Benzo(k)fluoranthene	mg/kg		31	47	31	66%	0.00081	0.0176	0.131		0%			0.00446	0.0249	
Chrysene	mg/kg		31	47	37	79%	0.00134	0.0622	0.49		0%			0.00433	0.0249	
Dibenzo(a,h)anthracene	mg/kg		31	47	30	64%	0.00123	0.00843	0.0657		0%			0.00446	0.0249	
Indeno(1,2,3-cd)pyrene	mg/kg		31	47	32	68%	0.00237	0.0383	0.373		0%			0.00446	0.0249	
Total Benzofluoranthenes	mg/kg	3.2	23	38	31	82%	0.00386	0.0748	0.489		0%	0		0.00891	0.0499	
Total HPAHs	mg/kg	12	31	47	40	85%	0.00167	0.41	2.64		0%	0		0.005	0.48	
Total LPAHs	mg/kg	5.2	31	47	40	85%	0.001	0.327	4.47		0%	1		0.00496	0.48	
Total PAHs (ND=0)	mg/kg		31	47	41	87%	0.001	0.719	6.39		0%			0.005	0.48	
Total cPAHs TEQ (ND = 0)	mg/kg	0.00031	31	47	37	79%	0.000956	0.0427	0.391	37	79%	1261	1		0.00497	3/11/2021
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	0.00031	31	47	37	79%	0.00182	0.0665	0.67	37	79%	2161	10	0.00376745	0.74745	3/11/2021
Total cPAHs TEQ (ND multiplier Unk	mg/kg	0.00031	11	1		0%				0	0%		1 1	0.06	0.06	1/17/2006
PCB Aroclors																
Aroclor 1016	mg/kg		76	100		0%					0%			0.0035	6.3	
Aroclor 1221	mg/kg		69	92		0%					0%			0.0035	6.3	
Aroclor 1232	mg/kg		69	92		0%					0%			0.0035	6.3	
Aroclor 1242	mg/kg		69	92	3	3%	3.9	4.4	5.2		0%			1.1	1.2	
Aroclor 1248	mg/kg		76	100		0%					0%			0.0035	6.3	
Aroclor 1254	mg/kg		76	100	48	48%	0.002	5.99	36.7		0%			0.0035	6.3	
Aroclor 1260	mg/kg		76	100	80	80%	0.0007	2.15	54		0%			0.0035	6.3	
Aroclor 1262 Aroclor 1268	mg/kg		53 53	70 70		0% 0%					0% 0%			0.0035 0.0035	1.39 1.39	
Total PCB Aroclors (ND=1/2 RL)	mg/kg mg/kg	1.1E-05	76	100	86	86%	0.015	6.47	79.8	86	86%	7254545	14	0.0039	0.08	3/11/2021
Total PCBs (Sum of Aroclors)	mg/kg	1.1E-05	76	100	86	86%	0.0009	5.5	66	86	86%	6000000	14	0.0039	0.08	3/11/2021
PCB Congeners	mg/kg	1.12-00	70	100	00	0070	0.0003	0.0	- 00		0070	0000000	1 17	0.0059	0.00	3/11/2021
Total PCB Congeners	mg/kg	1.1E-05	43	43	43	100%	0.00482	8.42	107	43	100%	9727273	0			3/9/2021
Total PCB TEQ (ND = 0)	mg/kg	6.93E-09	43	43	43	100%	1.9E-09	0.000183	0.00214	42	98%	308802	0			3/9/2021
Total PCB TEQ (ND = 1/2 RDL)	mg/kg	6.93E-09	43	43	43	100%	0.000000116	0.000183	0.00214	43	100%	310245	0			3/9/2021
Dioxins/Furans	mg/kg	0.502-05	70	10	70	10070	0.000000110	0.000100	0.00210	1 70	10070	010240				0/3/2021
Total CDD TEQ (ND = 1/2 RDL)	mg/kg	2E-06	2	2	2	100%	0.0000146	0.000932	0.00185	2	100%	925	0 1			3/8/2021
Total CDF TEQ (ND = 1/2 RDL)	mg/kg	2E-06	2	2	2	100%	0.0000140	0.000932	0.000692	2	100%	346	0			3/8/2021
Total Dioxin/Furan TEQ (ND = 0)	mg/kg	5.2E-06	2	2	2	100%	0.000077	0.00124	0.00246	2	100%	473	0			3/8/2021
Total Dioxin/Furan TEQ (ND = 1/2 RI		5.2E-06	2	2	2	100%	0.0000256	0.00121	0.00255	2	100%	490	0			3/8/2021
Pesticies/Herbicides				-	_	.0070	5.5555200	3.00.20	3.00200	-			· •			5,0,2021
2,4'-DDD	mg/kg		18	26		0%					0%			0.00099	11.1	
2,4'-DDE	mg/kg		18	26		0%	1				0%		1	0.00099	39.9	
2,4'-DDT	mg/kg		18	26	7	27%	0.00051	1.3	3.6		0%			0.001	20	
4,4'-DDD	mg/kg	7.27E-06	18	26	5	19%	0.051	0.43	0.8	5	19%	110041	21	0.00099	0.02	3/11/2021
4,4'-DDE	mg/kg	1.52E-06	18	26	1	4%	0.37	0.37	0.37	1	4%	243421	25	0.00099	39.9	3/11/2021
4,4'-DDT	mg/kg	1.63E-05	18	26	6	23%	0.00087	1.2	4	6	23%	245399	20	0.001	39.9	3/11/2021
Aldrin	mg/kg	4.01E-08	18	26	7	27%	0.00079	0.935	3.5	7	27%	87281796	19	0.0005	0.00998	3/11/2021
Alpha-BHC	mg/kg	1.88E-06	11	18		0%				0	0%		18	0.0005	0.44	3/11/2021
Beta-BHC	mg/kg	6.55E-05	11	18		0%				0	0%		18	0.0005	0.01	3/11/2021
cis-Chlordane	mg/kg	0.0001	11	18		0%				0	0%		18	0.0005	5.99	3/11/2021
cis-Nonachlor	mg/kg		11	18		0%					0%			0.001	20	
Delta-BHC	mg/kg	6	11	18		0%					0%			0.0005	0.01	
Dieldrin	mg/kg	6.17E-07	18	26	3	12%	0.0021	0.59	0.92	3	12%	1491086	23	0.0398	0.0398	3/11/2021
Endosulfan I	mg/kg	0.00121	11	18		0%				0	0%		7	0.0005	0.01	3/11/2021
Endosulfan II	mg/kg	0.00121	11	18		0%				0	0%		8	0.001	3.99	3/11/2021
Endosulfan Sulfate	mg/kg	2.01	11	18		0%				0	0%		1	0.001	2.99	3/4/2021
Endrin	mg/kg	0.00044	11	18		0%				0	0%		18	0.001	9.98	3/11/2021
Endrin Aldehyde	mg/kg	0.00243	11	18		0%				0	0%		10	0.001	3.99	3/11/2021

Table B.6. Statistical Summary of All Soil Chemical Analytical Results - Vadose Zone Project No. 190293, South Park Marina, Seattle, Washington

Analyte	Units	Preliminary Screening Level (PSL)	Number of Sampled Locations	Number of Samples (excluding Field Dups)	Number of Samples with Detected Concentration	Frequency of Detection	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Number of Detected Exceedances of PSL	Frequency of Detected Exceedance	Maximum Exceedance Factor	Number of NonDetects with Reporting Limit Above Preliminary Screening Level	Min RL	Max RL	Date of Last Screening Level Exceedance
Endrin ketone	mg/kg	0.005.00	11	18		0%				0	0%		00	0.001	7.99	2/44/2024
Heptachlor Heptachlor Epoxide	mg/kg mg/kg	6.62E-08 4.94E-07	18 11	26 18		0% 0%				0	0% 0%		26 18	0.0005 0.0005	0.998 0.01	3/11/2021 3/11/2021
Lindane	mg/kg	0.00389	18	26		0%				0	0%		11	0.0005	0.01	3/11/2021
Methoxychlor	mg/kg	0.0321	11	18		0%				0	0%		6	0.00499	12	3/11/2021
Mirex	mg/kg	0.00714	11	18		0%				0	0%		6	0.001	1.6	3/11/2021
Oxychlordane	mg/kg		11	18		0%					0%			0.001	0.02	
Total Chlordane	mg/kg	2.27E-05	7	8		0%				0	0%		8	0.0099	5.2	10/1/2007
trans-Chlordane trans-Nonachlor	mg/kg	0.0001	11 11	18 18	1	6% 0%	0.00065	0.00065	0.00065	1	6% 0%	7	17	0.0005 0.001	0.0005 5.99	3/11/2021
TPHs	mg/kg			10		U70					U70		<u> </u>	0.001	5.99	
Gasoline Range Organics	mg/kg	30	29	45	16	36%	7.88	31.7	150	5	11%	5	3	5.81	10.7	3/9/2021
Diesel Range Organics	mg/kg	260	34	50	17	34%	82.4	2420	12000	12	24%	46	0	54	600	3/11/2021
Motor Oil Range Organics	mg/kg	260	34	50	29	58%	81	4710	34000	19	38%	131	0	108	570	3/11/2021
Diesel and Oil Extended Range Orga	mg/kg	260	34	50	29	58%	94.5	6130	40300	20	40%	155	0	6.5	132	3/11/2021
Total TPHs	mg/kg		1	1	1	100%	190	190	190		0%					
VOCs	P		^=			221	1				22/			0.0000		
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	mg/kg	38.5 371	27 27	44 44		0% 0%				-	0% 0%			0.00093 0.00093	0.071 0.071	+
1,1,1-1 richioroethane 1,1,2,2-Tetrachloroethane	mg/kg mg/kg	0.00168	27	44		0%				0	0%		7	0.00093	0.071	3/9/2021
1,1,2-Trichloroethane	mg/kg	0.00498	27	44		0%				0	0%		3	0.00093	0.071	10/1/2007
1,1,2-Trichlorotrifluoroethane	mg/kg	2400000	23	40		0%					0%		·	0.00186	0.00441	10,0200
1,1-Dichloroethane	mg/kg	175	27	44	1	2%	0.00031	0.00031	0.00031		0%	0		0.00093	0.071	
1,1-Dichloroethene	mg/kg	26.1	27	44		0%					0%			0.00093	0.071	
1,1-Dichloropropene	mg/kg	00	27	44		0%					0%			0.00093	0.071	
1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	mg/kg mg/kg	20 0.0063	27 27	44		0% 0%				0	0% 0%		3	0.00465 0.00186	0.29 0.071	10/1/2007
1,2,4-Trichlorobenzene	mg/kg	0.0003	30	48		0%				0	0%		3	0.00465	0.48	10/1/2007
1,2,4-Trimethylbenzene	mg/kg	800	27	44	3	7%	0.00023	9	17		0%	0		0.00093	0.03	10/1/2007
1,2-Dibromo-3-chloropropane	mg/kg	0.23	27	44		0%				0	0%		2	0.00465	0.29	10/1/2007
1,2-Dibromoethane (EDB)	mg/kg	0.5	27	44		0%					0%			0.00093	0.29	
1,2-Dichlorobenzene	mg/kg	0.035	30	48	4	8%	0.0123	0.145	0.31	2	4%	9	1	0.02	0.02	10/1/2007
1,2-Dichloroethane (EDC) 1,2-Dichloropropane	mg/kg mg/kg	0.351 0.0157	27 27	44 44		0% 0%				0	0% 0%		2	0.00093 0.00093	0.071 0.071	10/1/2007
1,3,5-Trimethylbenzene	mg/kg	800	27	44	3	7%	0.058	3.3	6.6	U	0%	0	2	0.00093	0.071	10/1/2007
1,3-Dichlorobenzene	mg/kg	0.0232	27	44	Ü	0%	0.000	0.0	0.0	0	0%		2	0.00093	0.071	10/1/2007
1,3-Dichloropropane	mg/kg	1600	27	44		0%					0%			0.00093	0.071	
1,4-Dichloro-2-Butene	mg/kg		23	40		0%					0%			0.00465	0.011	
1,4-Dichlorobenzene	mg/kg	0.11	30	48	3	6%	0.0204	0.0321	0.038	0	0%	0	1	0.02	0.02	10/1/2007
2,2-Dichloropropane	mg/kg	40000	27 27	44	17	0% 39%	0.0025	0.0016	0.74		0%	0		0.00093 0.00466	0.071	
2-Butanone 2-Chloroethyl Vinyl Ether	mg/kg mg/kg	48000	23	40	17	0%	0.0035	0.0916	0.71		0% 0%	0		0.00465	0.011 0.011	+
2-Chlorotoluene	mg/kg	1600	27	44		0%					0%			0.00403	0.29	
2-Hexanone	mg/kg	400	27	44		0%					0%			0.00465	2.9	
2-Pentanone	mg/kg		23	40	2	5%	0.0113	0.0118	0.0123		0%	<u> </u>		0.0068	0.00804	
4-Chlorotoluene	mg/kg	2400	27	44		0%	0.000	2.22			0%			0.00093	0.29	
4-Methyl-2-pentanone	mg/kg	6400	27 27	44	3	7%	0.0028	0.69	1.4	1	0%	0		0.00465	0.03	
Acetone Acrolein	mg/kg mg/kg	72000 0.00443	27	44	41	93% 0%	0.0115	0.121	0.483	0	0% 0%	0	40	0.0093 0.00465	0.022 0.011	3/23/2021
Acrylonitrile	mg/kg	0.00443	23	40		0%				0	0%		40	0.00465	0.011	3/23/2021
Benzene	mg/kg	0.00876	27	44	12	27%	0.00035	0.013	0.078	2	5%	9	0	0.00093	0.00136	10/1/2007
Bromobenzene	mg/kg	640	27	44		0%					0%			0.00093	0.29	
Bromochloromethane	mg/kg		27	44		0%					0%			0.00093	0.071	
Bromodichloromethane	mg/kg	0.0132	27	44		0%				0	0%		2	0.00093	0.071	10/1/2007
Bromoform Bromomethane	mg/kg mg/kg	0.0785 1.22	27 27	44	4	0% 9%	0.00049	0.00204	0.00323		0% 0%	0	+	0.00093 0.00095	0.071 0.0022	+
Carbon Disulfide	mg/kg	8000	27	44	8	18%	0.00049	0.00251	0.00323		0%	0	+	0.00093	0.0022	+
Carbon Tetrachloride	mg/kg	0.00287	27	44	ŭ	0%	0.00012	0.00201	5.5120	0	0%	<u> </u>	4	0.00093	0.071	10/1/2007
Chlorobenzene	mg/kg	1.72	27	44	1	2%	0.046	0.046	0.046		0%	0		0.00093	0.071	
Chloroethane	mg/kg		27	44		0%					0%			0.00186	0.071	
Chloroform	mg/kg	0.806	27	44		0%					0%			0.00093	0.071	
Chloromethane cis-1,2-Dichloroethene (cDCE)	mg/kg	160	27 27	44 44	7	0% 16%	0.00054	2 04	11	1	0% 0%	0		0.00093 0.00105	0.071	
cis-1,2-Dichloroethene (cDCE)	mg/kg mg/kg	160 0.00627	27	44	/	0%	0.00054	2.84	11	0	0%	U	3	0.00105	0.00127 0.071	10/1/2007
ы- г,о-инпогоргорепе	mg/kg	0.00027	21	44		U%				Ι υ	U7/0		3	0.00093	0.071	10/1/2007

Table B.6. Statistical Summary of All Soil Chemical Analytical Results - Vadose Zone

Project No. 190293, South Park Marina, Seattle, Washington

Analyte	Units	Preliminary Screening Level (PSL)	Number of Sampled Locations	Number of Samples (excluding Field Dups)	Number of Samples with Detected Concentration	Frequency of Detection	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Number of Detected Exceedances of PSL	Frequency of Detected Exceedance	Maximum Exceedance Factor	Number of NonDetects with Reporting Limit Above Preliminary Screening Level	Min RL	Max RL	Date of Last Screening Level Exceedance
Dibromochloromethane	mg/kg	0.0103	27	44	Concentration	0%	Concentration	Concentration	Concentration	0	0%	1 uctor	2	0.00093	0.071	10/1/2007
Dibromomethane	mg/kg	800	27	44		0%					0%		-	0.00093	0.071	10/1/2007
Dichlorodifluoromethane	mg/kg	16000	27	44	-	0%					0%			0.00093	0.071	
Ethylbenzene	mg/kg	0.176	27	44	4	9%	0.00023	3.4	9.3	2	5%	53	0	0.00093	0.0022	10/1/2007
Isopropylbenzene	mg/kg	8000	27	44	3	7%	0.01	0.76	1.7		0%	0		0.00093	0.017	
m,p-Xylenes	mg/kg		27	44	8	18%	0.00088	8.13	44		0%			0.002	0.00331	
Methyl tert-butyl ether (MTBE)	mg/kg	556	23	40		0%					0%			0.00093	0.0022	
Methylene Chloride	mg/kg	0.435	27	44	7	16%	0.00682	0.0343	0.14		0%	0		0.0058	0.011	
Methyliodide	mg/kg		23	40	1	3%	0.00165	0.00165	0.00165		0%			0.001	0.001	
n-Butylbenzene	mg/kg	4000	27	44	2	5%	0.96	1.5	2		0%	0		0.00093	0.03	
n-Propylbenzene	mg/kg	8000	27	44	2	5%	0.67	1.2	1.8		0%	0		0.00093	0.03	
o-Xylene	mg/kg		27	44	5	11%	0.00049	7.6	24		0%			0.00107	0.00107	
p-lsopropyltoluene	mg/kg		27	44	3	7%	0.039	1.3	2.6		0%			0.00093	0.017	
sec-Butylbenzene	mg/kg	8000	27	44	2	5%	0.54	0.87	1.2		0%	0		0.00093	0.03	
Styrene	mg/kg	300	27	44	1	2%	0.037	0.037	0.037		0%	0		0.00093	0.068	
tert-Butylbenzene	mg/kg	8000	27	44	2	5%	0.042	0.065	0.087		0%	0		0.00093	0.03	
Tetrachloroethene (PCE)	mg/kg	0.0289	27	44	26	59%	0.00049	0.0723	0.878	8	18%	30	0	0.001	0.0663	3/11/2021
Toluene	mg/kg	0.72	27	44	21	48%	0.00034	0.54	7.2	2	5%	10	0	0.00093	0.0022	10/1/2007
Total Xylenes	mg/kg	0.944	23	40	3	8%	0.00105	0.00372	0.00847		0%	0		0.002	0.00331	
trans-1,2-Dichloroethene	mg/kg	5.17	27	44	2	5%	0.098	0.15	0.21		0%	0		0.00093	0.0075	
trans-1,3-Dichloropropene	mg/kg	0.00627	27	44		0%				0	0%		3	0.00093	0.071	10/1/2007
Trichloroethene (TCE)	mg/kg	0.0044	27	44	13	30%	0.0005	0.0261	0.17	3	7%	39	1	0.001	0.00166	3/1/2021
Trichlorofluoromethane	mg/kg	24000	27	44		0%					0%			0.00186	0.071	
Vinyl Acetate	mg/kg	80000	23	40		0%					0%			0.00465	0.011	
Vinyl Chloride	mg/kg	0.00106	27	44	4	9%	0.0014	0.24	0.87	4	9%	821	30	0.00093	0.0022	3/11/2021
Conventionals																
Total Organic Carbon	%		56	71	64	90%	0.0516	0.601	2.98		0%			0.02	0.02	
Total Solids	%		33	50	50	100%	75.1	88.11	95.5		0%			0.04	0.04	

Preliminary screening level: SPM_RI_VADOSE-SOILS_SLS _2022.02

Notes

This table includes all samples collected to date.

Blank cells = not applicable

D - Dissolved

Dups - Duplicates

Max -Maximum

mg/Kg - milligrams per kilogram

Min - Minimum

ng/Kg - nanogram per kilogram

PAHs - Polycyclic Aromatic Hydrocarbons

PCB - Polychlorinated Biphenyl

PSL - Preliminary Screening Level

RL - Reporting Limit

SVOCs - Semivoltine Organic Compounds

T- Total

TPHs - Total Petroleum Hydrocarbons

VOCs - Volatile Organic Compounds

Many maximum and minimum reporting limits were not explicitly listed in the historical database. We have assumed the values given for non-detect results are the reporting limit where historical reporting limits were omitted. Therefore some of the maximum and minimum reporting limits are based on non-detect results only.

 Table B.6

 Remedial Investigation Work Plan Addendum

Table B.7. Statistical Summary of All Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

	1			1			<u> </u>	1		1			 		
Analyte	Unit	Preliminary Screening Level (PSL)	Number of Sampled Locations	Number of Samples (excluding Field Dups)	Number of Samples with Detected Concentration	Frequency of Detection	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Number of Detected Exceedances of PSL	Frequency of Detected Exceedance	Maximum PSL Exceedance Factor	Number of NonDetects with Reporting Limit Above Preliminary Screening Level	Min RL	Max RL
Metals															
Arsenic	mg/kg	7.3	28	41	39	95%	1	2.97	29.3	2	5%	4	2	0.21	0.31
Barium	mg/kg	8.26	2	2	2	100%	31	33	35	2	100%	4	0	3	3.2
Cadmium Chromium	mg/kg	0.77 48.2	28 28	41 41	31 41	76% 100%	0.021 6.37	0.262 17.8	3.74 77.3	1 3	2% 7%	5 2	0	0.11 0.53	0.59 1.7
Copper	mg/kg mg/kg	36.4	26	39	39	100%	5.43	15.8	56	3	8%	2	0	0.53	0.77
Lead	mg/kg	50	28	41	41	100%	1.15	27.7	586	3	7%	12	0	0.11	6.5
Mercury	mg/kg	0.07	25	32	27	84%	0.004	0.0534	0.422	3	9%	6	2	0.0222	0.0334
Nickel	mg/kg	48	14	26	26	100%	5.26	11.3	58.4	1	4%	1	0	0.53	0.77
Selenium	mg/kg	0.3	2	2	40	0%	0.040	0.0705	0.445	0	0%		2	12	13
Silver Zinc	mg/kg mg/kg	0.0163 85.1	14 26	15 39	13 39	87% 100%	0.049 14.8	0.0765 43.9	0.145 418	13	87% 10%	9	2	0.59 5.8	0.65 13.3
Organometallic	ilig/kg	00.1		39	39	100 /6	14.0	43.9	410	4	10 76			3.0	13.3
Dibutyltin Ion	mg/kg		6	9	3	33%	0.00308	0.0121	0.0239		0%		1	0.00573	0.00576
Monobutyltin	mg/kg		6	9	3	33%	0.00188	0.007	0.0144		0%			0.00405	0.00407
Tetrabutyltin	mg/kg		6	9		0%					0%			0.00493	0.0499
Tributyltin Ion	mg/kg	0.000111	6	9	4	44%	0.00281	0.0116	0.026	4	44%	234	5	0.00383	0.0386
Other SVOCs	1			1		2	1					ı	1 -		
1,2-Dinitrobenzene	mg/kg	8	2	2		0%				_	0%			0.4	0.43
1,2-Diphenylhydrazine 1,3-Dinitrobenzene	mg/kg mg/kg	3.59E-05 8	2 2	2 2		0% 0%				0	0% 0%		2	0.4 0.4	0.43 0.43
1,4-Dinitrobenzene	mg/kg	8	2	2		0%					0%			0.4	0.43
2,3,4,6-Tetrachlorophenol	mg/kg	2400	2	2		0%					0%			0.4	0.43
2,3,5,6-Tetrachlorophenol	mg/kg		2	2		0%					0%			0.4	0.43
2,3-Dichloroaniline	mg/kg		2	2		0%				_	0%			0.4	0.43
2,4,5-Trichlorophenol	mg/kg	6.98E-05	11	20		0%				0	0%		20	0.0995	0.43
2,4,6-Trichlorophenol 2,4-Dichlorophenol	mg/kg mg/kg	0.401 0.00434	<u>11</u> 11	20 20		0% 0%				0	0% 0%		20	0.0995 0.0995	0.43 0.43
2,4-Dimethylphenol	mg/kg	0.00227	23	33	1	3%	0.0376	0.0376	0.0376	1	3%	17	32	0.0997	0.0997
2,4-Dinitrophenol	mg/kg	0.0287	11	20	1	5%	2.3	2.3	2.3	1	5%	80	19	2	2
2,4-Dinitrotoluene	mg/kg	0.000155	11	20		0%				0	0%		20	0.0995	0.43
2,6-Dinitrotoluene	mg/kg	0.0654	11	20		0%				0	0%		20	0.0995	0.43
2-Chloronaphthalene	mg/kg	0.277	11	20		0%				0	0%		2	0.0199	0.43
2-Chlorophenol 2-Methylphenol	mg/kg mg/kg	0.0115 0.00636	11 23	20 33		0% 0%				0	0% 0%		20 33	0.0199 0.0098	0.43
2-Nitroaniline	mg/kg	292	11	20		0%					0%		33	0.0995	0.43
2-Nitrophenol	mg/kg		11	20		0%					0%			0.0199	0.43
3 & 4 Methylphenol	mg/kg		2	2		0%					0%			0.4	0.43
3,3'-Dichlorobenzidine	mg/kg	2E-06	11	20		0%				0	0%		20	0.0995	4.3
3-Nitroaniline	mg/kg	0.00700	11	20		0%				0	0%		20	0.0995	0.43
4,6-Dinitro-2-methylphenol 4-Bromophenyl phenyl ether	mg/kg mg/kg	0.00728	<u>11</u> 11	20 20		0% 0%				U	0% 0%		20	0.199 0.0199	2.2 0.43
4-Chloro-3-methylphenol	mg/kg	0.028	11	20		0%				0	0%		20	0.0995	0.43
4-Chloroaniline	mg/kg	0.96	11	20		0%					0%			0.0995	0.43
4-Chlorophenyl phenyl ether	mg/kg		11	20		0%					0%			0.0199	0.43
4-Methylphenol	mg/kg	0.0624	21	31	1	3%	0.0022	0.0022	0.0022	0	0%	0	2	0.0098	1
4-Nitroaniline 4-Nitrophenol	mg/kg	30.5 7	<u>11</u> 11	20 20		0% 0%					0% 0%		+	0.0995 0.0995	0.43 0.43
Aniline	mg/kg mg/kg	42.7	2	20		0%					0%		+	0.0995	0.43
Benzidine	mg/kg	3.4E-08	2	2		0%				0	0%		2	4	4.3
Benzoic acid	mg/kg	0.169	21	31	4	13%	0.138	0.267	0.433	3	10%	3	27	0.199	0.2
Benzyl alcohol	mg/kg	0.0174	23	33	2	6%	0.0041	0.0059	0.0077	0	0%	0	31	0.0199	2
Benzyl butyl phthalate	mg/kg	0.000182	23	33	1	3%	0.0052	0.0052	0.0052	1	3%	29	32	0.0098	4.3
Bis(2-chloro-1-methylethyl) ether Bis(2-chloroethoxy)methane	mg/kg mg/kg	0.333	9 11	18 20		0% 0%		-		+	0% 0%		+	0.0199 0.0199	0.02 0.43
Bis(2-chloroethyl) ether	mg/kg	2.18E-05	11	20		0%				0	0%		20	0.0199	0.43
bis(2-Chloroisopropyl)ether	mg/kg		2	2		0%					0%			0.4	0.43
Bis(2-ethylhexyl) adipate	mg/kg	833	2	2		0%					0%			0.4	0.43
Bis(2-ethylhexyl) phthalate	mg/kg	0.00512	23	33	10	30%	0.03	0.76	2	10	30%	391	23	0.0498	0.499
Carbazole	mg/kg	0.0000	11	20	40	0%	0.00457	0.0000	0.0	-	0%	04		0.0199	0.43
Dibenzofuran Diethyl phthalate	mg/kg mg/kg	0.0292 0.0341	26 23	37 33	13 3	35% 9%	0.00157 0.0496	0.0938 0.0801	0.6 0.124	5 3	14% 9%	21 4	3 4	0.00498 0.0199	0.0499 0.02
Dimethyl phthalate	mg/kg	0.0341	23	33	2	6%	0.0496	0.0801	0.124	1	3%	1	22	0.0199	1
Di-n-butyl phthalate	mg/kg	0.0149	23	33	2	6%	0.006	0.0076	0.0092	0	0%	1	27	0.02	0.02
Di-n-octyl phthalate	mg/kg	0.327	23	33		0%				0	0%		3	0.0098	1
Hexachlorobenzene	mg/kg	4.01E-07	23	33	1	3%	0.0469	0.0469	0.0469	1	3%	116958	32	0.00998	0.00998
Hexachlorobutadiene	mg/kg	1.13E-05	27	40	2	5%	0.00612	0.00881	0.0115	2	5%	1018	38	0.00596	0.0199

Table B.7. Statistical Summary of All Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

															1
															1
		Preliminary	Number of	Number of Samples	Number of Samples with		Minimum		Maximum	Number of Detected	Frequency of	Maximum PSL	Number of NonDetects with Reporting Limit		
Analista	l lmi4	Screening Level	Sampled	(excluding Field	Detected	Frequency of	Detected	Average Detected	Detected	Exceedances of	Detected	Exceedance	Above Preliminary	Mire DI	May DI
Analyte Hexachlorocyclopentadiene	Unit mg/kg	(PSL) 0.00169	Locations 11	Dups) 20	Concentration	Detection 0%	Concentration	Concentration	Concentration	PSL 0	Exceedance 0%	Factor	Screening Level 20	Min RL 0.0995	Max RL 0.43
Hexachloroethane	mg/kg	9.67E-06	11	20		0%				0	0%		20	0.0199	0.43
Isophorone	mg/kg	0.0387	11	20	1	5%	0.0688	0.0688	0.0688	1	5%	2	2	0.02	0.02
Nitrobenzene	mg/kg	0.0406	11	20		0%				0	0%		2	0.0199	0.43
N-Nitrosodimethylamine	mg/kg	0.000105	2	2		0%				0	0%		2	0.4	0.43
N-Nitroso-di-n-propylamine	mg/kg	3.26E-05	11	20		0%	0.0005	0.0005	0.0005	0	0%	00	20	0.0199	0.43
N-Nitrosodiphenylamine Pentachlorophenol	mg/kg mg/kg	0.00161 1.76E-06	23 23	33 33	<u>1</u> 3	3% 9%	0.0995 0.028	0.0995 0.049	0.0995 0.079	3	3% 9%	62 44886	32 30	0.0199 0.098	0.0199 10
Phenol	mg/kg	0.0479	23	33	<u>3</u> 1	3%	0.028	0.0129	0.0129	0	0%	0	4	0.098	0.02
Pyridine	mg/kg	36.4	2	2		0%	0.0120	0.0120	0.0120	Ů	0%	Ŭ	•	4	4.3
PAHs	, <u> </u>							•					•		
1-Methylnaphthalene	mg/kg	2.26	14	24	14	58%	0.00107	0.177	1.05		0%	0		0.00498	0.0499
2-Methylnaphthalene	mg/kg	0.0388	26	37	13	35%	0.00142	0.45	4.5	6	16%	116	1	0.00498	0.0499
Acenaphthene	mg/kg	0.0277	26	37	14	38%	0.00081	0.117	0.51	6	16%	18	1	0.00498	0.0499
Acenaphthylene	mg/kg	1.3	26	37	9	24%	0.00119	0.0278	0.0672		0%	0	 	0.00498	0.0499
Anthracene	mg/kg	0.0511 0.67	26 26	37 37	16 19	43% 51%	0.00087 0.0014	0.244 0.0176	1.2 0.0811	6	16% 0%	23	1	0.00497 0.00497	0.43 0.0499
Benzo(g,h,i)perylene Fluoranthene	mg/kg mg/kg	0.0899	26	37	25	68%	0.0014	0.0176	0.0811	6	16%	10	1	0.00497	0.0499
Fluorene	mg/kg	0.0699	26	37	12	32%	0.0008	0.125	1	7	19%	34	1	0.00497	0.43
Naphthalene	mg/kg	0.00207	27	40	10	25%	0.00131	0.0728	0.51	8	20%	246	30	0.00497	0.076
Phenanthrene	mg/kg	1.5	26	37	31	84%	0.00117	0.126	2.4	1	3%	2	0	0.00495	0.0499
Pyrene	mg/kg	0.137	26	37	29	78%	0.00065	0.105	0.99	5	14%	7	1	0.00497	0.43
Benz(a)anthracene	mg/kg		26	37	17	46%	0.00111	0.037	0.184		0%			0.00498	0.0499
Benzo(a)pyrene	mg/kg	1.55E-05	26	37	17	46%	0.00112	0.032	0.17	17	46%	10968	20	0.00498	0.0499
Benzo(b)fluoranthene	mg/kg		26	37	17	46%	0.0015	0.0252	0.118		0%			0.00498	0.0499
Benzo(j)fluoranthene Benzo(j,k)fluoranthene	mg/kg mg/kg		12 2	22	12 1	55% 50%	0.0007 0.066	0.0154 0.066	0.0694 0.066		0% 0%		+	0.00498 0.015	0.0499 0.015
Benzo(k)fluoranthene	mg/kg		24	35	12	34%	0.00094	0.0151	0.0734		0%			0.00498	0.0499
Chrysene	mg/kg		26	37	22	59%	0.00118	0.0712	0.53		0%			0.00497	0.0499
Dibenzo(a,h)anthracene	mg/kg		26	37	7	19%	0.00119	0.0104	0.0226		0%			0.00498	0.0497
Indeno(1,2,3-cd)pyrene	mg/kg		26	37	14	38%	0.00135	0.0198	0.0918		0%			0.00498	0.0499
Total Benzofluoranthenes	mg/kg	3.2	12	22	11	50%	0.00367	0.0608	0.257		0%	0		0.00995	0.0998
Total HPAHs	mg/kg	12	26	37	29	78%	0.00065	0.359	2.4		0%	0	_	0.00495	0.19
Total LPAHs Total PAHs (ND=0)	mg/kg	5.2	26 26	37 37	33 34	89% 92%	0.00117 0.00131	0.411 0.705	5.62 8.02	1	3% 0%	1	0	0.00536 0.0099	0.19 0.19
Total cPAHs TEQ (ND = 0)	mg/kg mg/kg	1.55E-05	26	37	22	59%	0.00131	0.705	0.203	21	57%	13097	3	0.0099	0.005
Total cPAHs TEQ (ND = 1/2 RDL)	mg/kg	1.55E-05	26	37	22	59%	0.00226	0.07	0.755	22	59%	48710	15	0.00373725	0.14345
PCBAroclors		1.002 00		<u> </u>		0070	0.00220	0.01	0.700		0070			0.00010120	0.11010
Aroclor 1016	mg/kg		34	48		0%					0%			0.004	6.3
Aroclor 1221	mg/kg		22	35		0%					0%			0.004	6.3
Aroclor 1232	mg/kg		22	35		0%					0%			0.004	6.3
Aroclor 1242	mg/kg		22	35	3	9%	2.3	7	15		0%			1.2	6.3
Aroclor 1248	mg/kg		34	48	6	13%	0.0088	2.04	9.52		0%			0.004	0.311
Aroclor 1254 Aroclor 1260	mg/kg		34 34	48 48	27 25	56% 52%	0.0018 0.0008	6.53 2.02	93 23		0% 0%			0.004 0.004	6.3 6.3
Aroclor 1260 Aroclor 1262	mg/kg mg/kg		34 16	29	20 1	3%	0.0008	0.0014	0.0014		0%		+	0.004	0.004
Aroclor 1268	mg/kg		16	29	ı	0%	3.0014	3.0014	0.0014		0%		1	0.004	1.44
Total PCB Aroclors (ND=1/2 RL)	mg/kg	5.49E-07	33	47	32	68%	0.0166	9.17	144	32	68%	262295082	15	0.004	0.064
Total PCBs (Sum of Aroclors)	mg/kg	5.49E-07	34	48	32	67%	0.0008	8.13	131	32	67%	238615665	16	0.004	0.064
PCB Congeners															
Total PCB Congeners	mg/kg	5.49E-07	3	3	3	100%	22.1	52.7	99.1	3	100%	180510018	0	0	0
Total PCB TEQ (ND = 0)	mg/kg	3.47E-10	3	3	3	100%	0.000499	0.00141	0.0027	3	100%	7780980	0	0	0
Total PCB TEQ (ND = 1/2 RDL)	mg/kg	3.47E-10	3	3	3	100%	0.000514	0.00142	0.0027	3	100%	7780980	0	0	0
Dioxins/Furans		25.00				4000/	0.000704	0.000704	0.000704	۱ ،	4000/	250		0	
Total CDD TEQ (ND = 1/2 RDL) Total CDF TEQ (ND = 1/2 RDL)	mg/kg	2E-06 2E-06	<u>1</u>	1	1 1	100% 100%	0.000704 0.000299	0.000704 0.000299	0.000704 0.000299	1 1	100% 100%	352 150	0	0	0
Total Dioxin/Furan TEQ (ND = 0)	mg/kg mg/kg	5.2E-06	<u> </u>	1	1	100%	0.000299	0.000299	0.000299	1	100%	192	0	0	0
Total Dioxin/Furan TEQ (ND = 1/2 RDL)	mg/kg	5.2E-06	<u>.</u> 1	1	1	100%	0.001	0.001	0.001	1	100%	192	0	0	0
Pest/Herbicides															
2,4'-DDD	mg/kg		17	27	1	4%	0.0023	0.0023	0.0023		0%		<u> </u>	0.00099	0.44
2,4'-DDE	mg/kg		17	27		0%					0%			0.00099	11.1
2,4'-DDT	mg/kg		17	27	6	22%	0.0011	0.37	1.3		0%			0.00099	19.9
4,4'-DDD	mg/kg	3.64E-07	19	29	5	17%	0.00022	0.026	0.13	5	17%	357143	24	0.00099	0.1
4,4'-DDE	mg/kg	7.63E-08	19	29	10	34%	0.00045	0.0914	0.39	10	34%	5111402	19	0.001	0.13
4,4'-DDT	mg/kg	8.14E-07	19	29	7	24%	0.0018	0.4	1.6	7	24%	1965602	22	0.00099	44.3
Aldrin	mg/kg	2.01E-09	19	29	14	48%	0.002	3.3	20.3	14	48%	10099502488	15	0.0005	0.998

Table B.7. Statistical Summary of All Soil Chemical Analytical Results - Saturated Zone Project No. 190293, South Park Marina, Seattle, Washington

															1
													Number of		1
				Number of	Number of					Number of			NonDetects with		1
		Preliminary	Number of	Samples	Samples with		Minimum		Maximum	Detected	Frequency of	Maximum PSL	Reporting Limit		1
		Screening Level	Sampled	(excluding Field	Detected	Frequency of	Detected	Average Detected	Detected	Exceedances of	Detected	Exceedance	Above Preliminary		1
Analyte	Unit	(PSL)	Locations	Dups)	Concentration	Detection	Concentration	Concentration	Concentration	PSL	Exceedance	Factor	Screening Level	Min RL	Max RL
Alpha-BHC	mg/kg	9.82E-08	7	16	1	6%	0.014	0.014	0.014	1	6%	142566	15	0.00498	0.00498
Beta-BHC	mg/kg	3.4E-06	7	16		0%	0.047	0.047	0.047	0	0%	0005	16	0.0005	0.16
cis-Chlordane cis-Nonachlor	mg/kg mg/kg	5.29E-06	<i>1</i> 5	16 14	1	6% 0%	0.047	0.047	0.047	1	6% 0%	8885	15	0.0005 0.001	6.64 8.86
Delta-BHC	mg/kg	6	7	16	1	6%	0.056	0.056	0.056		0%	0		0.0065	0.0065
Dieldrin	mg/kg	3.09E-08	19	29	11	38%	0.00058	0.471	3.1	11	38%	100323625	18	0.001	2
Endosulfan I	mg/kg	6.13E-05	7	16		0%				0	0%		16	0.0005	0.01
Endosulfan II	mg/kg	6.13E-05	7	16		0%				0	0%		16	0.001	8.86
Endosulfan Sulfate	mg/kg	0.101	7	16		0%					0%		40	0.001	0.02
Endrin Endrin Aldehyde	mg/kg mg/kg	2.22E-05 0.000124	7 7	16 16	2	0% 13%	0.036	0.098	0.16	0	0% 13%	1290	16 14	0.001 0.012	0.02 0.013
Endrin Adenyde Endrin ketone	mg/kg	0.000124	<i>1</i>	16	Z	0%	0.036	0.096	0.10	2	0%	1290	14	0.012	1.98
Heptachlor	mg/kg	3.34E-09	 19	29	3	10%	0.00056	0.0084	0.017	3	10%	5089820	26	0.0059	0.0065
Heptachlor Epoxide	mg/kg	2.49E-08	7	16		0%				0	0%		16	0.0005	0.439
Lindane	mg/kg	0.000205	19	29		0%				0	0%		29	0.0005	0.1
Methoxychlor	mg/kg	0.00161	7	16		0%				0	0%		16	0.00499	0.1
Mirex Oxychlordane	mg/kg	0.000357	<u>5</u>	14 14		0%				0	0% 0%	1	14	0.001 0.001	1.99 0.02
Total Chlordane	mg/kg mg/kg	1.13E-06	12	13		0% 0%				0	0%	+	13	0.001	5
Toxaphene	mg/kg	3.07E-06	2	2		0%				0	0%	1	2	0.059	0.065
trans-Chlordane	mg/kg	5.29E-06	7	16	1	6%	0.18	0.18	0.18	1	6%	34026	15	0.0005	6.66
trans-Nonachlor	mg/kg		5	14		0%					0%			0.001	4.43
TPHs															
Gasoline Range Organics	mg/kg	30	28	41	8	20%	7.64	893	5440	6	15%	181	0	7.32	1430
Diesel Range Organics	mg/kg	260	34	49	13	27%	3.7	1980	9550	8	16%	37	0	27	580
Motor Oil Range Organics Diesel and Oil Extended Range Organics	mg/kg mg/kg	260 260	34 34	49 49	19 19	39% 39%	21 24.7	4240 5600	26800 36400	12 12	24% 24%	103 140	0	118 54	1160 140
VOCs	ilig/kg	200	<u> </u>	45	19	3970	24.1	3000	30400	12	2470	140		54	140
1,1,1,2-Tetrachloroethane	mg/kg	18.7	16	28		0%	I	1		1	0%	1	T	0.00094	7.93
1,1,1-Trichloroethane	mg/kg	21.1	16	28		0%					0%			0.00094	7.93
1,1,2,2-Tetrachloroethane	mg/kg	0.00011	16	28		0%				0	0%		28	0.00094	7.93
1,1,2-Trichloroethane	mg/kg	0.000326	16	28		0%				0	0%		28	0.00094	7.93
1,1,2-Trichlorotrifluoroethane	mg/kg	812000	13	25		0%					0%			0.00189	15.9
1,1-Dichloroethane 1,1-Dichloroethene	mg/kg mg/kg	108 1.41	<u>16</u> 16	28 28	1	0% 4%	0.00575	0.00575	0.00575	0	0% 0%	0	1	0.00094 0.0014	7.93 0.0014
1,1-Dichloropropene	mg/kg	1.41	16	28	I	0%	0.00373	0.00373	0.00373	U	0%	U	'	0.00094	7.93
1,2,3-Trichlorobenzene	mg/kg	12.1	16	28		0%				0	0%		1	0.00472	39.7
1,2,3-Trichloropropane	mg/kg	0.00273	16	28		0%				0	0%		11	0.00189	15.9
1,2,4-Trichlorobenzene	mg/kg	0.00188	27	40		0%				0	0%		40	0.00472	39.7
1,2,4-Trimethylbenzene	mg/kg	179	16	28	5	18%	0.00039	16.8	84.2		0%	0		0.00107	7.93
1,2-Dibromo-3-chloropropane	mg/kg	0.102	16	28		0%				0	0%		4	0.00472	39.7 7.93
1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene	mg/kg mg/kg	0.277 0.00299	16 27	28 40	5	0% 13%	0.0107	0.0491	0.11	5	0% 13%	37	15	0.00094 0.0199	0.076
1,2-Dichloroethane (EDC)	mg/kg	0.0237	16	28	<u> </u>	0%	0.0107	0.0401	5.11	0	0%	5,	3	0.00094	7.93
1,2-Dichloropropane	mg/kg	0.00103	16	28		0%				0	0%		25	0.00094	7.93
1,3,5-Trimethylbenzene	mg/kg	180	16	28	5	18%	0.00035	25	125		0%	1		0.00107	7.93
1,3-Dichlorobenzene	mg/kg	0.00132	16	28	1	4%	0.00328	0.00328	0.00328	1	4%	2	12	0.00119	0.00119
1,3-Dichloropropane 1,4-Dichloro-2-Butene	mg/kg	884	16 13	28 25		0% 0%		-		-	0% 0%	-	+	0.00094 0.00472	7.93 39.7
1,4-Dichlorobenzene	mg/kg mg/kg	0.00807	27	40	4	10%	0.0005	0.008	0.014	3	8%	2	15	0.00472	0.0199
2,2-Dichloropropane	mg/kg	3.30001	16	28		0%	3.3000	5.500	3.014	<u> </u>	0%	-	- · · · ·	0.00094	7.93
2-Butanone	mg/kg	48000	16	28	5	18%	0.00382	0.0087	0.017		0%	0		0.00504	0.00917
2-Chloroethyl Vinyl Ether	mg/kg		15	27		0%					0%			0.00472	39.7
2-Chlorotoluene	mg/kg	414	16	28		0%					0%			0.00094	7.93
2-Hexanone 2-Pentanone	mg/kg mg/kg	400	16 13	28 25		0% 0%		-		-	0% 0%	-	+	0.00472 0.00472	39.7 39.7
4-Chlorotoluene	mg/kg		16	28		0%					0%	1	+	0.00472	7.93
4-Methyl-2-pentanone	mg/kg	6400	16	28		0%					0%	1		0.00472	39.7
Acetone	mg/kg	72000	16	28	24	86%	0.0136	0.0795	0.204		0%	0		0.0057	0.0183
Acrolein	mg/kg	0.000316	13	25		0%				0	0%		25	0.00472	39.7
Acrylonitrile	mg/kg	8.26E-06	13	25		0%	0.000:-	0.0010-	0.000	0	0%		25	0.00472	39.7
Benzene	mg/kg	0.000558	17	29	10	34%	0.00048	0.00103	0.00356	8	28%	6	19	0.00101	0.00183
Bromochloromethane	mg/kg mg/kg	201	<u>16</u> 16	28 28		0% 0%					0% 0%	 	+	0.00094 0.00094	7.93 7.93
Bromodichloromethane	mg/kg	0.000892	16	28		0%				0	0%		28	0.00094	7.93
Bromoform	mg/kg	0.00495	16	28		0%				0	0%		4	0.00094	7.93
Bromomethane	mg/kg	0.0792	16	28	1	4%	0.115	0.115	0.115	1	4%	1	1	0.057	0.057

Table B.7. Statistical Summary of All Soil Chemical Analytical Results - Saturated Zone

Project No. 190293, South Park Marina, Seattle, Washington

		Preliminary	Number of	Number of Samples	Number of Samples with		Minimum		Maximum	Number of Detected	Frequency of	Maximum PSL	Number of NonDetects with Reporting Limit		
		Screening Level	Sampled	(excluding Field	Detected	Frequency of	Detected	Average Detected	Detected	Exceedances of	Detected	Exceedance	Above Preliminary		
Analyte	Unit	(PSL)	Locations	Dups)	Concentration	Detection	Concentration	Concentration	Concentration	PSL	Exceedance	Factor	Screening Level	Min RL	Max RL
Carbon Disulfide	mg/kg	7390	16	28	10	36%	0.00089	0.00497	0.0132		0%	0		0.00101	0.00183
Carbon Tetrachloride	mg/kg	0.000154	16	28		0%				0	0%		28	0.00094	7.93
Chlorobenzene	mg/kg	0.102	16	28		0%				0	0%		1	0.00094	7.93
Chloroethane	mg/kg		16	28		0%					0%			0.00189	7.93
Chloroform	mg/kg	0.0524	16	28		0%				0	0%		3	0.00094	7.93
Chloromethane	mg/kg		16	28		0%					0%			0.00094	7.93
cis-1,2-Dichloroethene (cDCE)	mg/kg	117	16	28	6	21%	0.00037	0.119	0.689		0%	0		0.00101	0.437
cis-1,3-Dichloropropene	mg/kg	0.000376	16	28		0%				0	0%		28	0.00094	7.93
Dibromochloromethane	mg/kg	0.000701	16	28		0%				0	0%		28	0.00094	7.93
Dibromomethane	mg/kg	472	16	28		0%					0%			0.00094	7.93
Dichlorodifluoromethane	mg/kg	11200	16	28		0%					0%			0.00094	7.93
Ethylbenzene	mg/kg	0.0103	17	29	1	3%	0.0105	0.0105	0.0105	1	3%	1	4	0.00119	0.00119
Isopropylbenzene	mg/kg	1730	16	28	2	7%	0.0025	0.104	0.206		0%	0		0.00119	0.00159
m,p-Xylenes	mg/kg		17	29	2	7%	0.00323	0.0302	0.0571		0%			0.00238	0.00367
Methyl tert-butyl ether (MTBE)	mg/kg	556	15	27		0%					0%			0.00094	7.93
Methylene Chloride	mg/kg	0.0297	16	28	5	18%	0.00659	2.17	10.7	2	7%	360	1	0.00627	15.9
Methyliodide	mg/kg		15	27		0%					0%			0.00094	7.93
n-Butylbenzene	mg/kg	748	16	28	3	11%	0.17	26.7	79.6		0%	0		0.0758	7.93
n-Propylbenzene	mg/kg	1670	16	28	3	11%	0.00049	24.3	72.5		0%	0		0.0014	7.93
o-Xylene	mg/kg		17	29	2	7%	0.00512	0.0354	0.0656		0%			0.00119	0.00183
p-lsopropyltoluene	mg/kg		16	28	2	7%	0.0183	6.21	12.4		0%			0.00119	7.93
sec-Butylbenzene	mg/kg	1520	16	28	5	18%	0.00044	2.79	13.6		0%	0		0.00149	7.93
Styrene	mg/kg	300	16	28		0%					0%			0.00094	7.93
tert-Butylbenzene	mg/kg	1600	16	28	2	7%	0.0008	0.00101	0.00121		0%	0		0.00149	0.00183
Tetrachloroethene (PCE)	mg/kg	0.0016	16	28	13	46%	0.0006	2.87	18.7	11	39%	11688	3	0.00101	7.93
Toluene	mg/kg	0.0435	17	29	6	21%	0.00035	0.00127	0.00444	0	0%	0	4	0.00101	0.00183
Total Xylenes	mg/kg	0.0551	13	25	2	8%	0.00836	0.0657	0.123	1	4%	2	2	0.00238	0.00367
trans-1,2-Dichloroethene	mg/kg	0.325	16	28	1	4%	0.00234	0.00234	0.00234	0	0%	0	1	0.0014	0.0014
trans-1,3-Dichloropropene	mg/kg	0.000376	16	28		0%				0	0%		28	0.00094	7.93
Trichloroethene (TCE)	mg/kg	0.000266	16	28	7	25%	0.00063	0.105	0.672	7	25%	2526	21	0.00101	0.437
Trichlorofluoromethane	mg/kg	16800	16	28		0%					0%			0.0011	7.93
Vinyl Acetate	mg/kg	80000	15	27		0%					0%			0.00472	39.7
Vinyl Chloride	mg/kg	5.55E-05	16	28	1	4%	0.0012	0.0012	0.0012	1	4%	22	27	0.00149	0.00149
Conventionals															
Total Organic Carbon	%		13	23	16	70%	0.07	0.491	2.28		0%			0.02	0.02
Total Solids	%		25	36	36	100%	60.5	77.36	87.5		0%	İ		0.04	0.04

Preliminary Screening Level: SPM_RI_SATURATED-SOIL_SLS _2022.02_FLAG

This table includes all samples collected to date.

Blank cells = not applicable

D - Dissolved

Dups - Duplicates Max -Maximum

mg/Kg - milligrams per kilogram

N - not applicable

ng/Kg - nanogram per kilogram

PAHs - Polycyclic Aromatic Hydrocarbons PCB - Polychlorinated Biphenyl

RL - Reporting Limit

SVOCs - Semivoltine Organic Compounds

T- Total

TPHs - Total Petroleum Hydrocarbons

VOCs - Volatile Organic Compounds

Many maximum and minimum reporting limits were not explicitly listed in the historical database. We have assumed the values given for non-detect results only.

Table B.8. Statistical Summary of All Groundwater Chemical Analytical Results - Shallow Monitoring Wells Project No. 190293, South Park Marina, Seattle, Washington

Analyte	Units	Preliminary Screening Level (PSL)	Number of Sampled Locations	Number of Samples (excluding Field Dups)	Number of Samples with Detected Concentration	Frequency of Detection	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Number of Detected Exceedances of Preliminary Screening Level	Frequency of Detected Exceedance	Maximum PSL Exceedance Factor	Number of NonDetects with Reporting Limit Above Preliminary Screening Level	First Sample Date	Most Recent Available Sample Date	Last Sample Date with Detected Concentration	Min RL	Max RL	Date of Last Screening Level Exceedance
Metals																			
Arsenic (D) Arsenic (T)	ug/L ug/L	8	9	9	9	100% 89%	0.254 0.267	0.691 0.773	1.72 1.51		0% 0%	0		3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021 3/31/2021	0.2	0.2 0.2	
Cadmium (D)	ug/L	1.19	9	9	4	44%	0.053	0.773	0.114		0%	0		3/29/2021	3/31/2021	3/31/2021	0.1	0.2	
Cadmium (T)	ug/L	1.19	9	9	3	33%	0.036	0.0743	0.104		0%	0		3/29/2021	3/31/2021	3/30/2021	0.1	0.1	
Chromium (D)	ug/L	27.4	9	9	7	78%	0.289	0.795	2.34		0%			3/29/2021	3/31/2021	3/31/2021	0.5	0.5	
Chromium (T)	ug/L	27.4	9	9	6	67%	0.342	0.962	2.37		0%			3/29/2021	3/31/2021	3/31/2021	0.5	0.5	0/04/0004
Copper (D) Copper (T)	ug/L ug/L	3.1 3.1	9	9	9	100% 56%	0.297 2.17	3.65 5.7	10.1 10.4	3	44% 33%	3	0	3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021 3/30/2021	0.5 0.5	0.5 0.5	3/31/2021 3/30/2021
Lead (D)	ug/L	5.6	9	9	9	100%	0.052	0.315	1.99	Ŭ	0%	0		3/29/2021	3/31/2021	3/31/2021	0.1	0.1	0/00/2021
Lead (T)	ug/L	5.6	9	9	6	67%	0.13	1.47	4.67		0%	1		3/29/2021	3/31/2021	3/31/2021	0.1	0.1	
Mercury (D)	ug/L	0.025	9	9		0%					0%			3/29/2021	3/31/2021		0.02	0.02	
Mercury (T) Nickel (D)	ug/L	0.025 8.2	9	9	9	0% 100%	0.272	5.72	22.2	2	0% 22%	3	0	3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021	0.02	0.02 0.5	3/31/2021
Nickel (T)	ug/L ug/L	8.2	9	9	8	89%	0.366	6.72	25.1	2	22%	3	0	3/29/2021	3/31/2021	3/31/2021	0.5	0.5	3/31/2021
Zinc (D)	ug/L	81	9	9	7	78%	5.1	222	1490	1	11%	18	0	3/29/2021	3/31/2021	3/31/2021	5	40	3/31/2021
Zinc (T)	ug/L	81	9	9	4	44%	5.66	464	1830	1	11%	23	0	3/29/2021	3/31/2021	3/31/2021	6	60	3/31/2021
Organometallic	/!	1	8	0		00/				T 1	00/	T	T	2/20/2024	2/24/2024	T	0.200	0.200	
Dibutyltin Ion Monobutyltin	ug/L ug/L	+		8		0% 0%				1	0% 0%			3/29/2021 3/29/2021	3/31/2021 3/31/2021		0.289	0.289 0.204	+
Tetrabutyltin	ug/L		8	8		0%					0%			3/29/2021	3/31/2021		0.3	0.3	
Tributyltin Ion	ug/L	4.27E-06	8	8		0%				0	0%		8	3/29/2021	3/31/2021		0.193	0.193	3/31/2021
Other SVOCs	uall	0.027	7	7 1		00/		1			00/	T	7	3/20/2024	2/24/2024		1	1 1	3/34/3034
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	ug/L ug/L	0.037 600	7	7		0% 0%		-		U	0% 0%			3/29/2021 3/29/2021	3/31/2021 3/31/2021		1 1	1.1	3/31/2021
2,4-Dichlorophenol	ug/L	10	7	7		0%				1	0%			3/29/2021	3/31/2021		1	1.1	1
2,4-Dimethylphenol	ug/L	2.91	7	7		0%					0%			3/29/2021	3/31/2021		1	1.1	
2,4-Dinitrophenol	ug/L	100	7	7		0%			·		0%		<u> </u>	3/29/2021	3/31/2021		2	2.1	0/04/0224
2,4-Dinitrotoluene 2,6-Dinitrotoluene	ug/L ug/L	0.18 74.9	7	7		0% 0%				0	0% 0%		7	3/29/2021 3/29/2021	3/31/2021 3/31/2021	+ - -	1	1.1 1.1	3/31/2021
2-Chloronaphthalene	ug/L	100	10	10		0%					0%			3/29/2021	3/31/2021		0.01	0.013	
2-Chlorophenol	ug/L	17	7	7		0%					0%			3/29/2021	3/31/2021		0.2	0.2	
2-Methylphenol	ug/L	10.7	7	7	1	14%	0.06	0.06	0.06		0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	
2-Nitroaniline	ug/L	735000	7	7		0%					0%			3/29/2021	3/31/2021		1	1.1	
2-Nitrophenol 3,3'-Dichlorobenzidine	ug/L ug/L	0.0033	7	7		0% 0%				0	0% 0%		7	3/29/2021 3/29/2021	3/31/2021 3/31/2021		1	1.1 1.1	3/31/2021
3-Nitroaniline	ug/L	0.0000	7	7		0%				Ů	0%		, ·	3/29/2021	3/31/2021		1	1.1	0/01/2021
4,6-Dinitro-2-methylphenol	ug/L	7	7	7		0%					0%			3/29/2021	3/31/2021		2	2.1	
4-Bromophenyl phenyl ether	ug/L		7	7		0%					0%			3/29/2021	3/31/2021		0.2	0.2	
4-Chloro-3-methylphenol 4-Chloroaniline	ug/L ug/L	36 2400	7 3	7 3		0% 0%					0% 0%			3/29/2021 3/31/2021	3/31/2021 3/31/2021	+	<u>1</u>	1.1	
4-Chlorophenyl phenyl ether	ug/L	2400	7	7		0%					0%			3/29/2021	3/31/2021		0.2	0.2	
4-Methylphenol	ug/L	106	7	7	1	14%	0.1	0.1	0.1		0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	
4-Nitroaniline	ug/L	106000	7	7		0%					0%			3/29/2021	3/31/2021		11	1.1	
4-Nitrophenol Benzoic acid	ug/L ug/L	589	7 7	7	1	0% 14%	0.4	0.4	0.4		0% 0%	0		3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021	2	1.1	
Benzyl alcohol	ug/L	56.4	7	7		0%	0.4	0.4	0.4		0%	,		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	
Benzyl butyl phthalate	ug/L	0.013	7	7		0%				0	0%		7	3/29/2021	3/31/2021		0.2	0.2	3/31/2021
Bis(2-chloro-1-methylethyl) ether	ug/L	900	7	7		0%					0%			3/29/2021	3/31/2021		0.2	0.2	
Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether	ug/L	0.06	7	7		0% 0%				0	0% 0%	<u> </u>	7	3/29/2021 3/29/2021	3/31/2021 3/31/2021	+	0.2	0.2 0.2	3/31/2021
Bis(2-ethylhexyl) phthalate	ug/L ug/L	0.046	7	7	2	29%	0.6	0.6	0.6	2	29%	13	5	3/29/2021	3/31/2021	3/31/2021	0.2	0.2	3/31/2021
Carbazole	ug/L	313.13	10	10	3	30%	0.001	0.4	1.2	_	0%		-	3/29/2021	3/31/2021	3/31/2021	0.01	0.2	5,5,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Dibenzofuran	ug/L	3.09	10	10	8	80%	0.002	0.0448	0.322		0%	0		3/29/2021	3/31/2021	3/31/2021	0.01	0.01	
Diethyl phthalate Dimethyl phthalate	ug/L	92.6 59	7	7	3	43% 0%	0.07	0.52	1.4		0% 0%	0		3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021	0.2	0.2	
Di-n-butyl phthalate	ug/L ug/L	8	7	7	2	29%	0.05	0.3	0.5		0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	
Di-n-octyl phthalate	ug/L	2.31	7	7		0%					0%			3/29/2021	3/31/2021		0.2	0.2	
Hexachlorobenzene	ug/L	5E-06	8	8		0%			·	0	0%		8	3/29/2021	3/31/2021	T	0.0013	0.2	3/31/2021
Hexachlorobutadiene Hexachlorocyclopentadiene	ug/L	0.01	12 7	12 7		0% 0%				0	0% 0%		7 2	3/29/2021 3/29/2021	3/31/2021 3/31/2021	+ - -	0.0013	0.5 1.1	3/31/2021 3/30/2021
Hexachloroethane	ug/L ug/L	0.02	7	7		0%				0	0%		7	3/29/2021	3/31/2021	 	0.2	0.2	3/31/2021
Isophorone	ug/L	110	7	7		0%					0%			3/29/2021	3/31/2021		0.2	0.2	
Nitrobenzene	ug/L	100	7	7		0%					0%			3/29/2021	3/31/2021		0.2	0.2	
N-Nitroso-di-n-propylamine	ug/L	0.058	7	7	4	0%	0.0	0.0	0.0	0	0%	4	7	3/29/2021	3/31/2021	2/24/0004	0.2	0.2	3/31/2021
N-Nitrosodiphenylamine Pentachlorophenol	ug/L ug/L	0.554 0.002	7 7	7	1	14% 0%	0.3	0.3	0.3	0	0% 0%	1	7	3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021	0.2	0.2 1.1	3/31/2021
Perylene	ug/L	0.002	10	10		0%				Ť	0%		<u>'</u>	3/29/2021	3/31/2021		0.01	0.013	5,5 1/2021
Phenol	ug/L	101	7	7	1	14%	0.1	0.1	0.1		0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	
PAHs		004	40	1 40	C	000/	0.000	0.005	2.00		001			2/20/2024	2/24/2224	2/24/2224	0.01	0.05	
1-Methylnaphthalene 2-Methylnaphthalene	ug/L ug/L	804 14	10 10	10 10	8 7	80% 70%	0.002 0.003	0.335 0.0659	2.63 0.441	+	0% 0%	0	+	3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021 3/31/2021	0.01	0.05 0.013	+
Acenaphthene	ug/L	5.34	10	10	3	30%	0.003	0.164	0.436	†	0%	0		3/29/2021	3/31/2021	3/31/2021	0.01	0.013	
Acenaphthylene	ug/L		10	10	2	20%	0.003	0.014	0.024		0%			3/29/2021	3/31/2021	3/31/2021	0.01	0.01	
Anthracene	ug/L	2.15	10	10	2	20%	0.01	0.096	0.182		0%	0		3/29/2021	3/31/2021	3/31/2021	0.01	0.01	
Benzo(g,h,i)perylene Fluoranthene	ug/L ug/L	1.82	10 10	10 10	<u>2</u> 6	20% 60%	0.002 0.002	0.002 0.015	0.002	-	0% 0%	0		3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021 3/31/2021	0.01	0.01 0.01	-
Fluoranthene	ug/L ug/L	3.67	10	10	3	30%	0.002	0.202	0.562		0%	0		3/29/2021	3/31/2021	3/31/2021	0.01	0.01	_
Naphthalene	ug/L	1.4	12	12	3	25%	0.01	0.023	0.036		0%	0		3/29/2021	3/31/2021	3/31/2021	0.01	0.01	
Phenanthrene	ug/L		10	10	7	70%	0.002	0.012	0.062		0%			3/29/2021	3/31/2021	3/31/2021	0.01	0.013	
Pyrene	ug/L	2.01	10	10	3	30%	0.002	0.025	0.051	4	0%	0		3/29/2021	3/31/2021	3/31/2021	0.01	0.01	2/24/2024
Benz(a)anthracene Benzo(a)pyrene	ug/L ug/L	0.00016 1.6E-05	10 10	10 10	<u>1</u> 1	10% 10%	0.007 0.003	0.007 0.003	0.007	1	10% 10%	44 188	9	3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021 3/31/2021	0.01	0.01 0.01	3/31/2021 3/31/2021
Benzo(b)fluoranthene	ug/L	0.00016	10	10	1	10%	0.003	0.003	0.003	1	10%	19	9	3/29/2021	3/31/2021	3/31/2021	0.01	0.01	3/31/2021
Benzo(j)fluoranthene	ug/L		10	10		0%	-		-		0%			3/29/2021	3/31/2021		0.01	0.013	
									· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				T-1-1-

Table B.8. Statistical Summary of All Groundwater Chemical Analytical Results - Shallow Monitoring Wells Project No. 190293, South Park Marina, Seattle, Washington

Project No. 190293, South Park Man	ma, ocatio,	Washington								Number of			Number of						
Anaka	lluite.	Preliminary Screening Level	Number of Sampled	Number of Samples (excluding Field	Number of Samples with Detected	Frequency of	Minimum Detected	Average Detected	Maximum Detected	Number of Detected Exceedances of Preliminary	Frequency of Detected	Maximum PSL Exceedance	NonDetects with Reporting Limit Above Preliminary	First Commits Date	Most Recent Available Sample	Last Sample Date with Detected	Mia Di	May DI	Date of Last Screening Level
Analyte Benzo(k)fluoranthene	Units ug/L	(PSL) 0.0016	Locations 10	Dups) 10	Concentration	Detection 0%	Concentration	Concentration	Concentration	Screening Level	Exceedance 0%	Factor	Screening Level	First Sample Date 3/29/2021	3/31/2021	Concentration	Min RL 0.01	Max RL 0.013	3/31/2021
Chrysene	ug/L	0.016	10	10	4	40%	0.002	0.0043	0.011	Ŭ	0%	1	10	3/29/2021	3/31/2021	3/31/2021	0.01	0.01	0/01/2021
Dibenzo(a,h)anthracene	ug/L	1.6E-05	10	10		0%				0	0%		10	3/29/2021	3/31/2021		0.01	0.013	3/31/2021
Indeno(1,2,3-cd)pyrene	ug/L	0.00016	10	10	1	10%	0.001	0.001	0.001	1	10%	6	9	3/29/2021	3/31/2021	3/31/2021	0.01	0.01	3/31/2021
Total Benzofluoranthenes Total HPAHs	ug/L ug/L		10 10	10 10	7	10% 70%	0.006 0.002	0.006 0.0289	0.006 0.138		0% 0%			3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021 3/31/2021	0.01	0.01 0.013	<u> </u>
Total LPAHs	ug/L ug/L		10	10	8	80%	0.002	0.0289	1.3		0%			3/29/2021	3/31/2021	3/31/2021	0.01	0.013	
Total PAHs (ND=0)	ug/L		10	10	9	90%	0.002	0.186	1.44		0%			3/29/2021	3/31/2021	3/31/2021	0.01	0.01	
Total cPAHs TEQ (ND = 0)	ug/L	0.00969	10	10	4	40%	0.00002	0.00107	0.00421		0%	0		3/29/2021	3/31/2021	3/31/2021	0	0	
Total cPAHs TEQ (ND = 1/2 RDL)	ug/L	0.00969	10	10	4	40%	0.00521	0.00694	0.00752	0	0%	1	1	3/29/2021	3/31/2021	3/31/2021	0.00755	0.009815	3/29/2021
PCB Aroclors		1	40	1 40		00/	1	l l			00/			0/00/0004	0/04/0004		0.04	0.040	T T
Aroclor 1016 Aroclor 1221	ug/L ug/L		10 10	10 10		0% 0%					0% 0%			3/29/2021 3/29/2021	3/31/2021 3/31/2021		0.01	0.012 0.012	
Aroclor 1232	ug/L		10	10	1	10%	0.386	0.386	0.386		0%			3/29/2021	3/31/2021	3/31/2021	0.01	0.012	
Aroclor 1242	ug/L		10	10	1	10%	0.063	0.063	0.063		0%			3/29/2021	3/31/2021	3/31/2021	0.01	0.01	
Aroclor 1248	ug/L		10	10		0%					0%			3/29/2021	3/31/2021		0.01	0.012	
Aroclor 1254	ug/L		10	10	7	70%	0.003	0.0453	0.252		0%			3/29/2021	3/31/2021	3/31/2021	0.01	0.011	
Aroclor 1260 Aroclor 1262	ug/L		10 10	10 10	5	50% 0%	0.004	0.012	0.041		0% 0%			3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021	0.01	0.011 0.012	
Aroclor 1262 Aroclor 1268	ug/L ug/L		10	10		0%					0%			3/29/2021	3/31/2021		0.01	0.012	
Total PCB Aroclors (ND=1/2 RL)	ug/L	7E-06	10	10	7	70%	0.042	0.154	0.709	7	70%	101286	3	3/29/2021	3/31/2021	3/31/2021	0.045	0.054	3/31/2021
Total PCBs (Sum of Aroclors)	ug/L	7E-06	10	10	7	70%	0.003	0.118	0.679	7	70%	97000	0	3/29/2021	3/31/2021	3/31/2021	0	0	3/31/2021
PCB Congeners													_						_
Total PCB Congeners	ug/L	7E-06	5	5	5	100%	0.0000547	0.0922	0.304	5	100%	43429	0	5/27/2021	5/27/2021	5/27/2021		<u> </u>	5/27/2021
Total PCB TEQ (ND = 0)	ug/L	4.43E-09	5	5	4	80%	3.03E-09	0.00000197	0.00000509	2	40%	1149	0	5/27/2021	5/27/2021	5/27/2021	0 000000334715	0 000000001717	5/27/2021
Total PCB TEQ (ND = 1/2 RDL) Pest/Herbicides	ug/L	4.43E-09	5	1 5	4	80%	0.000000333	0.00000217	0.00000516	4	80%	1165	1	5/27/2021	5/27/2021	5/27/2021	0.000000324715	0.000000324715	5/27/2021
2,4'-DDD	ug/L	T	7	7		0%	1	T I			0%	T	I	3/29/2021	3/31/2021	Γ	0.0013	1	T T
2,4'-DDE	ug/L		7	7		0%					0%			3/29/2021	3/31/2021		0.0013	0.0013	
2,4'-DDT	ug/L		7	7		0%					0%			3/29/2021	3/31/2021		0.0013	0.0013	
4,4'-DDD	ug/L	7.9E-06	7	7		0%				0	0%		7	3/29/2021	3/31/2021		0.0013	0.0013	3/31/2021
4,4'-DDE	ug/L	8.8E-07	7	7		0%				0	0%		7	3/29/2021	3/31/2021		0.0013	0.0013	3/31/2021
4,4'-DDT	ug/L	1.2E-06	7	7		0%	0.0007	0.0070		0	0%	4047070	7	3/29/2021	3/31/2021	0/04/0004	0.0013	1	3/31/2021
Aldrin	ug/L	4.1E-08 4.8E-05	7	7	4	57% 57%	0.0027 0.0027	0.0272 0.0032	0.0663	4	57% 57%	1617073	3	3/29/2021	3/31/2021 3/31/2021	3/31/2021	0.0006	0.0013 0.0006	3/31/2021
Alpha-BHC Beta-BHC	ug/L ug/L	0.0014	7	7	4	0%	0.0027	0.0032	0.0038	4	0%	79	3	3/29/2021 3/29/2021	3/31/2021	3/30/2021	0.0006	0.0006	3/31/2021
cis-Chlordane	ug/L	0.00014	7	7		0%				0	0%		7	3/29/2021	3/31/2021		0.0006	0.0006	3/31/2021
cis-Nonachlor	ug/L	0.000100	7	7		0%				, and the second	0%			3/29/2021	3/31/2021		0.0013	0.0013	0/01/2021
Delta-BHC	ug/L		7	7		0%					0%			3/29/2021	3/31/2021		0.0006	0.0006	
Dieldrin	ug/L	1.2E-06	7	7	3	43%	0.0158	0.0264	0.037	3	43%	30833	4	3/29/2021	3/31/2021	3/31/2021	0.0013	0.0013	3/31/2021
Endosulfan I	ug/L	0.0087	7	7		0%					0%			3/29/2021	3/31/2021		0.0006	0.0006	
Endosulfan II Endosulfan Sulfate	ug/L	0.0087	7	7		0% 0%					0% 0%	-		3/29/2021 3/29/2021	3/31/2021 3/31/2021		0.0013 0.0013	0.0013 0.0013	
Endosulian Sullate Endrin	ug/L ug/L	0.002	7	7		0%					0%			3/29/2021	3/31/2021		0.0013	0.0013	
Endrin Aldehyde	ug/L	0.035	7	7		0%					0%			3/29/2021	3/31/2021		0.0013	0.0013	
Endrin ketone	ug/L	0.000	7	7		0%					0%			3/29/2021	3/31/2021		0.0013	0.0013	
Heptachlor	ug/L	3.4E-07	7	7		0%				0	0%		7	3/29/2021	3/31/2021		0.0006	1	3/31/2021
Heptachlor Epoxide	ug/L	2.4E-06	7	7		0%				0	0%		7	3/29/2021	3/31/2021		0.0006	0.0006	3/31/2021
Lindane	ug/L	0.126	7	7		0%					0%			3/29/2021	3/31/2021		0.0006	0.0006	
Methoxychlor Mirex	ug/L	0.02 0.001	7	7		0% 0%				0	0% 0%	-	7	3/29/2021 3/29/2021	3/31/2021 3/31/2021		0.0063 0.0013	0.0063 0.0013	3/31/2021
Oxychlordane	ug/L ug/L	0.001	7	7		0%				0	0%			3/29/2021	3/31/2021		0.0013	0.0013	3/31/2021
trans-Chlordane	ug/L	0.000103	7	7		0%				0	0%		7	3/29/2021	3/31/2021		0.0006	0.0006	3/31/2021
trans-Nonachlor	ug/L		7	7		0%					0%			3/29/2021	3/31/2021		0.0013	0.0013	
TPHs																			
Gasoline Range Organics	ug/L	800	12	12	3	25%	101	1060	2810	1	8%	4	0	3/29/2021	3/31/2021	3/31/2021	100	100	3/31/2021
Diesel Range Organics Motor Oil Range Organics	ug/L	500 500	10 10	10 10	2 2	20% 20%	744 630	2590 777	923	2 2	20% 20%	9 2	0	3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021 3/31/2021	100 200	100 200	3/31/2021 3/31/2021
Diesel and Oil Extended Range Organ	ug/L ug/L	500	10	10	2	20%	1370	3360	5350	2	20%	11	0	3/29/2021	3/31/2021	3/31/2021	200	250	3/31/2021
VOCs	-9-	, 555			_			, 3333	5000	_	25.3			5.20,2021	5.02021	5.0 E0E1			373 172021
1,1,1,2-Tetrachloroethane	ug/L	7.11	12	12		0%					0%			3/29/2021	3/31/2021		0.2	0.2	
1,1,1-Trichloroethane	ug/L	5450	12	12		0%			·		0%			3/29/2021	3/31/2021		0.2	0.2	
1,1,2,2-Tetrachloroethane	ug/L	0.3	12	12		0%	1	1			0%	+	+	3/29/2021	3/31/2021	1	0.2	0.2	1
1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane	ug/L	0.9 167	12 12	12 12		0% 0%	-	+			0% 0%	+	-	3/29/2021 3/29/2021	3/31/2021 3/31/2021	 	0.2	0.2 0.2	-
1,1,2-11/chloroethane	ug/L ug/L	11	12	12		0%	1	+			0%	+		3/29/2021	3/31/2021	1	0.2	0.2	
1,1-Dichloroethane	ug/L	130	12	12	1	8%	3.2	3.2	3.2		0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	
1,1-Dichloropropene	ug/L		12	12		0%					0%			3/29/2021	3/31/2021		0.2	0.2	
1,2,3-Trichlorobenzene	ug/L	7260	12	12		0%					0%			3/29/2021	3/31/2021		0.5	0.5	
1,2,3-Trichloropropane	ug/L	6.77	12	12		0%		<u> </u>	·		0%			3/29/2021	3/31/2021	ļI	0.5	0.5	
1,2,4-Trichlorobenzene	ug/L	0.964	12	12	2	0%	0.40	0.44	0.45		0%		1	3/29/2021	3/31/2021	2/24/2024	0.2	0.5	
1,2,4-Trimethylbenzene	ug/L ug/L	239 0.0423	12 12	12 12	2	17% 0%	0.13	0.14	0.15	0	0% 0%	0	12	3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021	0.2	0.2 0.5	3/31/2021
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	ug/L ug/L	0.0423	12	12		0%	 	+		U	0%	+	12	3/29/2021	3/31/2021	 	0.5	0.5	3/3 1/2021
1,2-Dishorhoetrarie (EDB)	ug/L ug/L	4.48	12	12	3	25%	0.11	1.22	3.34		0%	1		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	
1,2-Dichloroethane (EDC)	ug/L	3.48	12	12	, , ,	0%					0%			3/29/2021	3/31/2021		0.2	0.2	
1,2-Dichloropropane	ug/L	3.1	12	12		0%					0%			3/29/2021	3/31/2021		0.2	0.2	
1,3,5-Trimethylbenzene	ug/L	167	12	12		0%					0%			3/29/2021	3/31/2021		0.2	0.2	
1,3-Dichlorobenzene	ug/L	2	12	12	1	8%	0.08	0.08	0.08		0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	
1,3-Dichloropropane	ug/L	2460000	12	12		0%	-				0%	+		3/29/2021	3/31/2021	1	0.2	0.2	
1,4-Dichloro-2-Butene	ug/L	4.00	12	12	2	0%	0.04	0.20	0.5		0%			3/29/2021	3/31/2021	2/24/2024	1 0.2	1	
1,4-Dichlorobenzene 2,2-Dichloropropane	ug/L	4.96	12 12	12 12	3	25% 0%	0.04	0.32	0.5	-	0% 0%	0		3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021	0.2	0.2	
2-Butanone	ug/L ug/L	1710000	12	12		0%		+			0%	+	+	3/29/2021	3/31/2021		5	5	1
2-Chlorotoluene	ug/L	618000	12	12		0%	İ	1		1	0%	1		3/29/2021	3/31/2021	†	0.2	0.2	İ
Aspect Consulting	J-			•			•				-		•				-	•	Table

Table B.8. Statistical Summary of All Groundwater Chemical Analytical Results - Shallow Monitoring Wells Project No. 190293, South Park Marina, Seattle, Washington

Analyte	Units	Preliminary Screening Level (PSL)	Number of Sampled Locations	Number of Samples (excluding Field Dups)	Number of Samples with Detected Concentration	Frequency of Detection	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Number of Detected Exceedances of Preliminary Screening Level	Frequency of Detected Exceedance	Maximum PSL Exceedance Factor	Number of NonDetects with Reporting Limit Above Preliminary Screening Level	First Sample Date	Most Recent Available Sample Date	Last Sample Date with Detected Concentration	Min RL	Max RL	Date of Last Screening Level Exceedance
2-Hexanone	ug/L	7260	12	12		0%					0%			3/29/2021	3/31/2021		5	5	+
2-Pentanone	ug/L	1200	12	12		0%					0%			3/29/2021	3/31/2021		5	5	+
4-Chlorotoluene	ug/L		12	12		0%					0%			3/29/2021	3/31/2021		0.2	0.2	+
4-Methyl-2-pentanone	ug/L	466000	12	12		0%					0%			3/29/2021	3/31/2021		5.2	5	+
Acetone	ug/L	33800000	12	12	6	50%	4.44	5.31	6.99		0%	0		3/29/2021	3/31/2021	3/31/2021	5	5	+
Acrolein	ug/L	1.1	12	12	•	0%	7.77	0.01	0.00	0	0%	•	12	3/29/2021	3/31/2021	0/01/2021	5	5	3/31/2021
Acrylonitrile	ug/L	0.028	12	12		0%				0	0%		12	3/29/2021	3/31/2021		1	1 1	3/31/2021
Benzene	ug/L	1.6	12	12	2	17%	0.07	0.35	0.63	,	0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	0/01/2021
Bromobenzene	ug/L	633	12	12		0%	0.01	0.00	0.00		0%			3/29/2021	3/31/2021	0/01/2021	0.2	0.2	+
Bromochloromethane	ug/L	555	12	12		0%					0%			3/29/2021	3/31/2021		0.2	0.2	1
Bromodichloromethane	ug/L	1.37	12	12		0%					0%			3/29/2021	3/31/2021		0.2	0.2	+
Bromoform	ug/L	12	12	12		0%					0%			3/29/2021	3/31/2021		0.2	0.2	+
Bromomethane	ug/L	10.9	12	12		0%					0%			3/29/2021	3/31/2021		1	1	+
Carbon Disulfide	ug/L	836	12	12		0%					0%			3/29/2021	3/31/2021		0.2	0.2	+
Carbon Tetrachloride	ug/L	0.35	12	12		0%					0%			3/29/2021	3/31/2021		0.2	0.2	+
Chlorobenzene	ug/L	200	12	12	1	8%	1.44	1.44	1.44		0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	-
Chloroethane	ug/L	14700	12	12		0%	1.44	1.77	1.77		0%	•		3/29/2021	3/31/2021	0/01/2021	0.2	0.2	+
Chloroform	ug/L	1.18	12	12	1	8%	0.69	0.69	0.69		0%	1		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	+
Chloromethane	ug/L	153	12	12		0%	0.03	0.03	0.03		0%	'		3/29/2021	3/31/2021	3/31/2021	0.5	0.5	+
cis-1,2-Dichloroethene (cDCE)	ug/L	359000	12	12	3	25%	0.12	188	555		0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	10	+
cis-1,3-Dichloropropene	ug/L	1.2	12	12	3	0%	0.12	100	333		0%	-		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	+
Dibromochloromethane	ug/L	2.2	12	12		0%					0%			3/29/2021	3/31/2021	1	0.2	0.2	+
Dibromomethane	ug/L	86.4	12	12		0%					0%			3/29/2021	3/31/2021		0.2	0.2	+
Dichlorodifluoromethane	ug/L	4.24	12	12		0%					0%			3/29/2021	3/31/2021	1	0.2	0.2	+
Ethylbenzene	ug/L	21	12	12	1	8%	0.46	0.46	0.46		0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	+
3	ug/L	907	12	12	1	8%	1.74	1.74	1.74		0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	+
Isopropylbenzene m,p-Xylenes	ug/L ug/L	907	12	12	1	8%	1.74	1.74	1.22		0%	U		3/29/2021	3/31/2021	3/31/2021	0.4	0.2	+
Methyl tert-butyl ether (MTBE)	ug/L	801	12	12		0%	1.22	1.22	1.22		0%			3/29/2021	3/31/2021	3/3 1/202 1	0.5	0.5	+
Methylene Chloride	ug/L	100	12	12		0%				+	0%			3/29/2021	3/31/2021		1	1	+
Methyliodide	ug/L ug/L	100	12	12		0%					0%			3/29/2021	3/31/2021		1	1	+
,		424000	12	12	1	8%	0.65	0.65	0.65		0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	+
n-Butylbenzene	ug/L	2270	12	12	1	8%	2.63	2.63	2.63	+	0%	0		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	+
n-Propylbenzene o-Xylene	ug/L	2270	12	12	1	8%	1.5	1.5	1.5		0%	U		3/29/2021	3/31/2021	3/31/2021	0.2	0.2	+
p-lsopropyltoluene	ug/L ug/L		12	12	'	0%	1.0	1.3	1.0		0%			3/29/2021	3/31/2021	3/3 1/202 1	0.2	0.2	+
		940000	12	12	1		0.68	0.68	0.60		0%	0				3/31/2021		0.2	+
sec-Butylbenzene Styrene	ug/L ug/L	8170	12	12	1	8% 0%	0.00	0.00	0.68		0%	U	+	3/29/2021 3/29/2021	3/31/2021 3/31/2021	3/31/2021	0.2	0.2	+
tert-Butylbenzene	ug/L ug/L	1240000	12	12	1	8%	0.09	0.09	0.09		0%	0	+	3/29/2021	3/31/2021	3/31/2021	0.2	0.2	+
Tetrachloroethene (PCE)	ug/L ug/L	2.9	12	12	8	67%	0.09	584	4640	3	25%	1600	0	3/29/2021	3/31/2021	3/31/2021	0.2	20	3/31/2021
Toluene		102	12	12	4	33%	0.09	0.2	0.36	3	0%	0	U	3/29/2021	3/31/2021	3/31/2021	0.2	0.2	3/31/2021
	ug/L	102	12	12	1	8%	2.72	2.72	2.72		0%	0		3/29/2021	3/31/2021	3/31/2021	0.6	0.2	
Total Xylenes trans-1,2-Dichloroethene	ug/L	76.8	12	12	1		4.99	4.99	4.99	1	0%	0	-	3/29/2021	3/31/2021	3/31/2021	0.6	0.6	+
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	ug/L	1.2	12	12	1	8% 0%	4.99	4.99	4.99		0%	U	+	3/29/2021	3/31/2021	3/3/1/2021	0.2	0.2	+
Trichloroethene (TCE)	ug/L	0.7	12	12	4	33%	0.09	68.6	259	2	17%	370	0	3/29/2021	3/31/2021	3/31/2021	0.2	10	3/31/2021
	ug/L				4		0.09	08.0	209			3/0	U			3/3 1/202 1			3/3/1/2027
Trichlorofluoromethane	ug/L	119	12	12		0%					0%			3/29/2021	3/31/2021	 	0.2	0.2	+
Vinyl Acetate	ug/L	7810	12	12	2	0%	0.25	0.44	0.52	-	0%	-	10	3/29/2021	3/31/2021	2/24/2024	0.2	0.2	2/24/2024
Vinyl Chloride	ug/L	0.18	12	12	2	17%	0.35	0.44	0.53	2	17%		10	3/29/2021	3/31/2021	3/31/2021	0.2	0.2	3/31/2021
Conventionals	n		•		^	4000/	000	E 475	44040		00/			2/20/2024	0/04/0004	2/24/2224	F00	500	$\overline{}$
Total Organic Carbon	ug/L		8	8	8	100%	890	5475	14240		0%		1	3/29/2021	3/31/2021	3/31/2021	500	500	+
Total Suspended Solids	ug/L		8	8	5	63%	4000	7400	17000	1	0%			3/29/2021	3/31/2021	3/31/2021	1000	2000	

Preliminary Screening Level: SPM_RI_GW_SLS _2022.02

Notes:
This table includes all samples collected to date.

Blank cells = not applicable

D - Dissolved

Dups - Duplicates Max -Maximum

mg/L - milligrams per liter Min - Minimum

PCB - Polychlorinated Biphenyl PSL - Preliminary Screening Level

RL - Reporting Limit

SVOCs - Semivoltine Organic Compounds

T- Total

TPHs - Total Petroleum Hydrocarbons

ug/L - micrograms per liter

VOCs - Volatile Organic Compounds

Many maximum and minimum reporting limits were not explicitly listed in the historical database. We have assumed the values given for non-detect results are the reporting limit where onitted. Therefore some of the maximum and minimum reporting limits are based on non-detect results only. This table only includes well results, not grab groundwater results.

Table B.8

Table B.9. Statistical Summary of All Groundwater Chemical Analytical Results - Alluvial Monitoring Wells Project No. 190293, South Park Marina, Seattle, Washington

Column C					Number of	Number of					Number of			Number of						\top
March Unit			Preliminary	Number of	Samples	Samples with	Eroguanov of	Minimum	Average Detected	Maximum	Detected Exceedances of	Frequency of	Maximum PSL	NonDetects with		Most Recent	Last Sample Date			Date of Last
Column C	Analyte	Units													First Sample Date			Min RL	Max RL	
March 14	Metals																	•		
Color Colo	Arsenic (D)		8	3	3	3					1		1	0						
Company	Arsenic (T)			3	6	6					1		1	0						10/9/2007
March Marc					3															
Control Cont				Ŭ	3															
Control Cont	. ,				6						1			0						
## Company of the com	Copper (D)			3	3	3					2		2	0						10/9/2007
WELL STORY OF THE PROPERTY OF	Copper (T)	ug/L		3	6	6					5		3	0						3/12/2008
March Marc	Lead (D)			-	3	3														
Target March Mar				3	6	6		0.046	0.191	0.519	0		0				3/12/2008	0.0	0.0	40/0/0007
Fig. 14				3	6						0			6						
The column The					3						•			-			+			3/12/2000
THE COLOR OF THE C	Silver (T)			3	6	2		0.005	0.008	0.01			0				10/9/2007			
THE COLOR OF THE C	Zinc (D)		81	3	3	3	100%	2.1	3.8	5.2		0%	0		10/8/2007	10/9/2007	10/9/2007			
Second S	Zinc (T)	ug/L	81	3	6	6	100%	2.93	4.06	4.9		0%	0		10/8/2007	3/12/2008	3/12/2008			
Company Comp	Other SVOCs																			
Company Comp					•						0			3						10/9/2007
Secretary (16) (16) (17) (17) (17) (17) (17) (17) (17) (17				-				-		-										
March Marc					•	1		1		1			+	+						+
with an extension of the control of					3	 			+		1			†			+			+
Company	Benzyl butyl phthalate				3			İ		İ	0			3						10/9/2007
Marganest	Bis(2-ethylhexyl) phthalate	ug/L	0.046		3		0%				0	0%		3	10/8/2007	10/9/2007		1.1	1.1	
Conference Con	Dibenzofuran				3													0.21	0.21	
Color Colo	Diethyl phthalate					3		0.036	0.047	0.059			0	+			10/9/2007	0.04	001	+
Complement Section Complement Comple						2		0.085	0.075	0.09			0	 			10/0/2007	0.21	0.21	+
Second S				-	3	3		0.065	0.075	0.06			U	+			10/9/2007	0.21	0.21	+
Part	Hexachlorobenzene				3			1		1	0			3						10/9/2007
No.	Hexachlorobutadiene	_		3	6						0			6						
The state of the complete of t	N-Nitrosodiphenylamine	ug/L		3	3		0%					0%			10/8/2007	10/9/2007		0.21	0.21	
The second content of the second content of	Pentachlorophenol				3						0			3						10/9/2007
March Marc		ug/L	101	3	3		0%					0%	L		10/8/2007	10/9/2007		0.51	0.51	
Company Comp				T -					1		1						1			
Company Comp				3	3															
Company	· · · · · · · · · · · · · · · · · · ·		5.34		3															
Second Content			2.15	-	3															
According 15 1 1 1 1 1 1 1 1	Benzo(g,h,i)perylene			3	3															
Marchane Marchane	Fluoranthene	ug/L		3	3															
Proceedings	Fluorene			3	3														0.21	
Prince of the Control	Naphthalene		1.4	3	6						0			3					2	3/12/2008
Proceedings			2.01		3															
1600 1600					3						0			3						10/9/2007
1	. ,																			
### PART 1990 1	Benzo(b)fluoranthene			3	3						0									
	Benzo(k)fluoranthene		0.0016	3	3		0%				0	0%		3	10/8/2007	10/9/2007		0.21	0.21	10/9/2007
Section Continue	Chrysene			-	3						0									
Column C				<u> </u>	3						0			3						
See Park See			0.00016	, ,	3						0			3			-			10/9/2007
See Part P					3									+						+
Second Position Second Pos	Total PAHs (ND=0)			3	3															
CER Accesses CER	Total cPAHs TEQ (ND = 0)		0.00969	3	3		0%					0%			10/8/2007	10/9/2007		0	0	
Part Part	Total cPAHs TEQ (ND = 1/2	ug/L	0.00969	3	3		0%				0	0%		3	10/8/2007	10/9/2007		0.15855	0.15855	10/9/2007
reder 1248	PCB Aroclors																			
Part Part	Aroclor 1016				3						ļ			1			-			
reciper 1260				-	3	1		1		1			+	+						+
Oils PGB Ancolors (ND-T) ugit. 7E-66 3 3 0 % 0 0% 3 108/2007 109/2007 0.2 0.21 109/2007 act PGB (Sum And Potol) ugit. 7E-66 3 3 0 % 0 0 3 108/2007 109/2007 0.2 0.21 109/2007 4/DDE ugit. 3 6 0 % 0	Aroclor 1260					<u> </u>		+		+			+	+			+			+
O	Total PCB Aroclors (ND=1/2		7E-06	-		1		1		1	0		1	3			1			10/9/2007
#*DDD	Total PCBs (Sum of Aroclor			3	3					<u> </u>	0			3						
#UDE ugl. 3 6 0% 0.001 0.0	Pesticides/Herbicides																			
## APDT	2,4'-DDD			-	6															
A'DDD	2,4'-DDE					ļ								ļ						
## A-DDE vg/L 8.8.E-07 3 6 0% 0.00049 0.011 31/12/2008 31/12/2008 0.00049 0.011 31/12/2008 31/12			7.05.00		- v	1 1		0.001	0.001	0.001	_		1	-			10/8/2007			2/42/2000
Al-DDT						 		-		-			 				+			
Iddin						3		0.00082	0.0015	0.0022			1833				3/12/2008			
is-Chlordane ug/L 0.000103 3 3 0.00049 0.0005 3.11/2/2008 0.00049 0.0005 3.11/2/2008 0.0005 3.11/2/2008 0.0005 0.0011 0.0011	Aldrin																			
	cis-Chlordane				3						0									
indane ug/L 0.126 3 6 0% 0% 0% 0.0049 0.011 otal Chlordane ug/L 2.2E-05 3 6 0% 0 0 0% 6 10/8/2007 3/12/2008 0.0097 0.21 3/12/2008 ans-Chlordane ug/L 0.000103 3 3 3 0 0 0 0 0 0	Dieldrin	ug/L			6	4		0.00071	0.016	0.041			34167		10/8/2007	3/12/2008	3/12/2008			3/12/2008
Octain Color Col	Heptachlor			-							0		<u> </u>	6						3/12/2008
rans-Chlordane ug/L 0.000103 3 3 0 0% 0 0% 3 3/12/2008 3/12/2008 0.00049 0.0005 3/12/2008 PHS Sasoline Range Organics ug/L 800 3 3 3 0 0% 0 0% 0 10/8/2007 10/9/2007 5.000 5	Lindane Total Chlordona				_ · ·	1		 		 	_		1	_						2/40/0000
PHs Sasoline Range Organics ug/L 800 3 3 3 0% 0% 0 0% 10/8/2007 10/9/2007 250 250 10/9/2007					b 2	 		-	-	1	• -		 				+			
Sasoline Range Organics ug/L 800 3 3 0% 0% 0% 10/8/2007 10/9/2007 250 250 Nesel Range Organics ug/L 500 3 3 0% 0 0 0 0% 3 10/8/2007 10/9/2007 630 630 10/9/2007 Nesel and Oil Extended Ra ug/L 500 3 3 0 0% 0 0 0 0 0 0 0 Nesel and Oil Extended Ra ug/L 500 3 3 0 0% 0 0 0 0 0 Nesel and Oil Extended Ra ug/L 500 3 3 0 0% 0 0 0 0 0 Nesel and Oil Extended Ra ug/L 500 3 3 0 0 0 0 0 0 Nesel and Oil Extended Ra ug/L 500 3 3 0 0 0 0 0 0 0		ug/L	0.000103	3	3		U%	1		1	ı	υ%		3	3/12/2008	3/12/2008		0.00049	0.0005	3/12/2008
Siesel Range Organics Ug/L 500 3 3 0 0 0 0 0 0 0		ua/l	800	3	3		0%	I	T	I		0%		T	10/8/2007	10/9/2007	T	250	250	
Motor Oil Range Organics Ug/L	Diesel Range Organics				3	 			+		0			3			+			10/9/2007
	Motor Oil Range Organics				3			İ		İ										
1,1,2-Tetrachloroethane ug/L 7.11 3 6 0% 0% 10/8/2007 3/12/2008 0.5 0.5 1,1-Trichloroethane ug/L 5450 3 6 0% 0% 0% 10/8/2007 3/12/2008 0.5 0.5	Diesel and Oil Extended Ra			3	3						0			3						
1,1-Trichloroethane ug/L 5450 3 6 0% 0% 0% 10/8/2007 3/12/2008 0.5 0.5	VOCs																			
	1,1,1,2-Tetrachloroethane			-	-															
,1,2,2-1 etrachloroethane ug/L 0.3 3 6 0% 0 0% 6 10/8/2007 3/12/2008 0.5 0.5 3/12/2008	1,1,1-Trichloroethane			<u> </u>	6									ļ						
	1,1,2,2-Tetrachloroethane	ug/L	0.3	3	6	L	0%	l	<u> </u>	<u> </u>	0	0%	1	6	10/8/2007	3/12/2008	1	0.5	0.5	3/12/2008

Table B.9. Statistical Summary of All Groundwater Chemical Analytical Results - Alluvial Monitoring Wells Project No. 190293, South Park Marina, Seattle, Washington

11,2-Princephage	Analyte	Units	Preliminary Screening Level (PSL)	Number of Sampled Locations	Number of Samples (excluding Field Dups)	Number of Samples with Detected Concentration	Frequency of Detection	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Number of Detected Exceedances of PSL	Frequency of Detected Exceedance	Maximum PSL Exceedance Factor	Number of NonDetects with Reporting Limit Above PSL	First Sample Date	Most Recent Available Sample Date	Last Sample Date with Detected Concentration	Min RL	Max RL	Date of Last Screening Level Exceedance
Company Comp		ug/L	0.9	3			0%					0%				3/12/2008		0.5	0.5	
Second S	1,1-Dichloroethane	ug/L	11	3	6		0%					0%			10/8/2007	3/12/2008		0.5	0.5	
Company Comp	1,1-Dichloroethene	ug/L	130	3	6		0%					0%			10/8/2007	3/12/2008		0.5	0.5	
1. 1. 1. 1. 1. 1. 1. 1.	1,1-Dichloropropene	ug/L		3	6							0%				3/12/2008		0.5	0.5	
Continue	1,2,3-Trichlorobenzene	ug/L	7260	3	6		0%					0%			10/8/2007	3/12/2008		2	2	
12-bit 1		ug/L		3	6															
Obtained processor	1,2,4-Trichlorobenzene	ug/L	0.964	3	6		0%				0	0%		3	10/8/2007	3/12/2008		0.21	2	3/12/2008
3 1 2 2 3 2 3 4	1,2,4-Trimethylbenzene	ug/L	239	3	6		0%					0%			10/8/2007	3/12/2008		2	2	
134 134 134 134 135 136		ug/L		3	6						0			6					2	3/12/2008
1-2		ug/L		3	6						0			6						3/12/2008
10.25 10.2					6															
32 Performence 15 15 15 15 15 15 15 1																				
Systemate Syst					6															
15h District property 3 300000 3 6 0.05		ug/L	167	3	6													2		
		ug/L		3	6															
2.26 1.26																				
Selection Mil. 170000 3 8 9 9 9 9 105000 370208 9 2 2 2 2 2 2 2 2 2		ug/L	4.96		6															
According Mail Street					•															
2				3	6															
Contention		ug/L		Ŭ	6															
Authors Author	2-Hexanone	ug/L	7260	3	6		0%					0%			10/8/2007	3/12/2008		20	20	
Accord					6															
Marchane	4-Methyl-2-pentanone	ug/L	466000	3	6							0%			10/8/2007	3/12/2008				
Secondariane	Acetone	ug/L	338000000	3	6															
Brownershare Ugil. 3 8 0% 0% 0% 0% 108/2007 31/2008 0.5	Benzene	ug/L	1.6	3	6		0%					0%			10/8/2007	3/12/2008		0.5	0.5	
Somoderine wgl	Bromobenzene	ug/L	633	3	6		0%					0%			10/8/2007	3/12/2008		2	2	
Bomorie Ugl	Bromochloromethane	ug/L		3	6		0%					0%			10/8/2007	3/12/2008		0.5	0.5	
Semontenhame	Bromodichloromethane	ug/L	1.37	3	6		0%					0%			10/8/2007	3/12/2008		0.5	0.5	
Carloon Definition UpiL 988 3 6 9 9% 9 9% 9 9% 9 90% 9 9732008 9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Bromoform	ug/L		3	6							0%								
Carbon Tetrachoride	Bromomethane	ug/L		3	6							0%						0.5		
Chicordename	Carbon Disulfide	ug/L		3	6							0%						0.5	0.5	
Chlorodeniane	Carbon Tetrachloride	ug/L		3	6						0			6						3/12/2008
Chlorofrom Ugl. 118 3 6 7 9% 7 9% 7 90% 9 108/2007 31/22008 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Chlorobenzene	ug/L		3	6													0.5		
Chioromethane UgiL 133 3 6 4 67% 0.38 0.64 0.9 0% 0 1092007 3122008 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		ug/L		3	6															
September Color Septembe				3	6															
Self-Spichloropropense Ug/L 1.2 3 6 0 0 0 0 0 0 0 0 0				3	6	4		0.36	0.64	0.9			0				3/12/2008			
Discrimentance Ugl. 2.2 3 6 0 0 0 0 0 0 0 0 0		ug/L		3	6															
Decomposition Ug L 68.4 3 6 0 0 0 0 0 0 0 0 0					6															
Dehlarodiluoromethane ug/L 4.24 3 6 0 0 0 0 0 0 0 0 0					-															
Ellybenzene					•															
Septemble Sept					6						1									
m_PXylenes	_ ,				6															
Methylene Chloride			907			1					ļ									
n-Butylbenzene ug/L 424000 3 6 6 0% 0% 0% 0% 0% 0% 10/8/2007 3/12/2008 0 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						1					ļ									
n-Propylbenzene ug/L 2270 3 6 0 0% 0 0 0% 0 0% 0 0% 0 0% 0 0% 0					•	ļ			1		ļ									
o-Xylene						ļ			1		ļ									
p-Isopropyltoluene ug/L			2270	Ŭ							ļ								2	
Sec-Butylbenzene Ug/L 940000 3 6 0 0 0 0 0 0 0 0 0	,					1					ļ									
Styrene ug/L 8170 3 6 0% Image: Control of the					6						ļ							2	2	
tert-Butylbenzene ug/L 1240000 3 6 0% 0 0 0% 0 10/8/2007 3/12/2008 3/12/2008 2 2 2 Tetrachloroethene (PCE) ug/L 2.9 3 6 3 50% 0.18 0.2 0% 0 10/8/2007 3/12/2008 3/12/2008 0.5 0.5 Totial Xylenes ug/L 102 3 6 2 33% 0.11 0.12 0.12 0% 0 10/8/2007 3/12/2008 3/12/2008 0.5 0.5 Total Xylenes ug/L 106 3 6 2 33% 0.11 0.12 0.12 0% 0 10/8/2007 3/12/2008 0.5 <td></td> <td></td> <td></td> <td></td> <td>6</td> <td>ļ</td> <td></td> <td></td> <td>1</td> <td></td> <td>ļ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>2</td> <td></td>					6	ļ			1		ļ							2	2	
Tetrachloroethene (PCE) ug/L 2.9 3 6 3 50% 0.16 0.18 0.2 0.6 0.6 0 10/8/2007 3/12/2008 3/12/2008 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	,				6						1									
Tolluene ug/L 102 3 6 2 33% 0.11 0.12 0.12 0.12 0.06 0 10/8/2007 3/12/2008 10/9/2007 0.5 0.5 0.5 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2008 0.5 0.5 0.5 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2007 10/8/2008 10/8/2007 10/8/2008 10/8/2007 10/8/2008 10/8/2007 10/8/2007 10/8/2008 10/8/2007 10/8/2007 10/8/2008 10/8/2007 10/8/2007 10/8/2008 10/8/2007 10/8/2008 10/8/2007 10/8/2007 10/8/2008 10/8/2007 10/8/2008 10/8/2007 10/8/2008 10/8/2007 10/8/2008 10/8/2007 10/8/2008 10/8/2007 10/8/2008 10/8/2007 10/8/2008 10/8/2008 10/8/2007 10/8/2008 10/8/20					6	1					ļ									
Total Xylenes	. , ,					3					ļ		0							
trans-1,2-Dichloroethene ug/L 76.8 3 6 0 0% 0 0% 0 0% 0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0						2		0.11	0.12	0.12	ļ		0				10/9/2007			_
trans-1,3-Dichloropropene ug/L 1.2 3 6 0% 5 0% 10/8/2007 3/12/2008 0.5 0.5 0.5 Trichloroethene (TCE) ug/L 0.7 3 6 0% 0 0% 10/8/2007 3/12/2008 0.5 0.5 0.5 Trichlorofluoromethane ug/L 119 3 6 0% 0 0 0% 10/8/2007 3/12/2008 0.5 0.5 0.5					-						1									
Trichloroethene (TCE) ug/L 0.7 3 6 0% 0.5 0.5 Trichlorofluoromethane ug/L 119 3 6 0% 0% 0% 10/8/2007 3/12/2008 0.5				3	6	ļ			1		ļ									_
Trichlorofluoromethane ug/L 119 3 6 0 0% D 0% D 0% D 0% D 0% D 0% D 0% D				3	6						1									
				3	6															
Vinyl Chloride ug/L 0.18 3 6 0% 0 0% 6 10/8/2007 3/12/2008 0.5 0.5 3/12/2008				3	6	1					ļ									
	Vinyl Chloride	ug/L	0.18	3	6		0%				0	0%		6	10/8/2007	3/12/2008		0.5	0.5	3/12/2008

Preliminary Screening Level (PSL): SPM_RI_GW_SLS _2022.02_action_level

Notes: This table includes all samples collected to date. Blank cells = not applicable D - Dissolved

Dups - Duplicates Max -Maximum

Min - Minimum

N - not applicable PAHs - Polycyclic Aromatic Hydrocarbons

PCB - Polychlorinated Biphenyl
PSL - Preliminary Screening Level

RL - Reporting Limit SVOCs - Semivoltine Organic Compounds T- Total

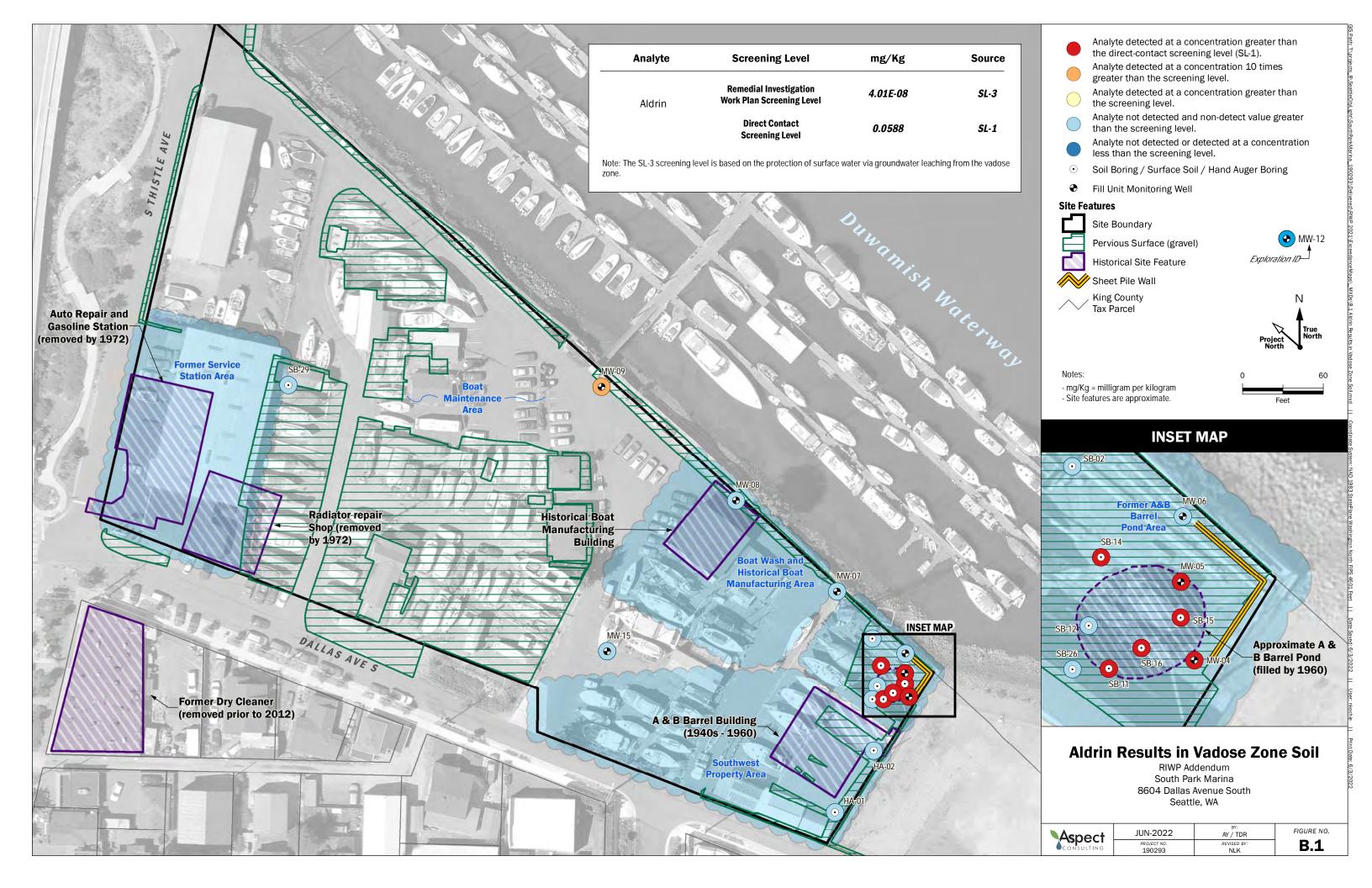
TPHs - Total Petroleum Hydrocarbons

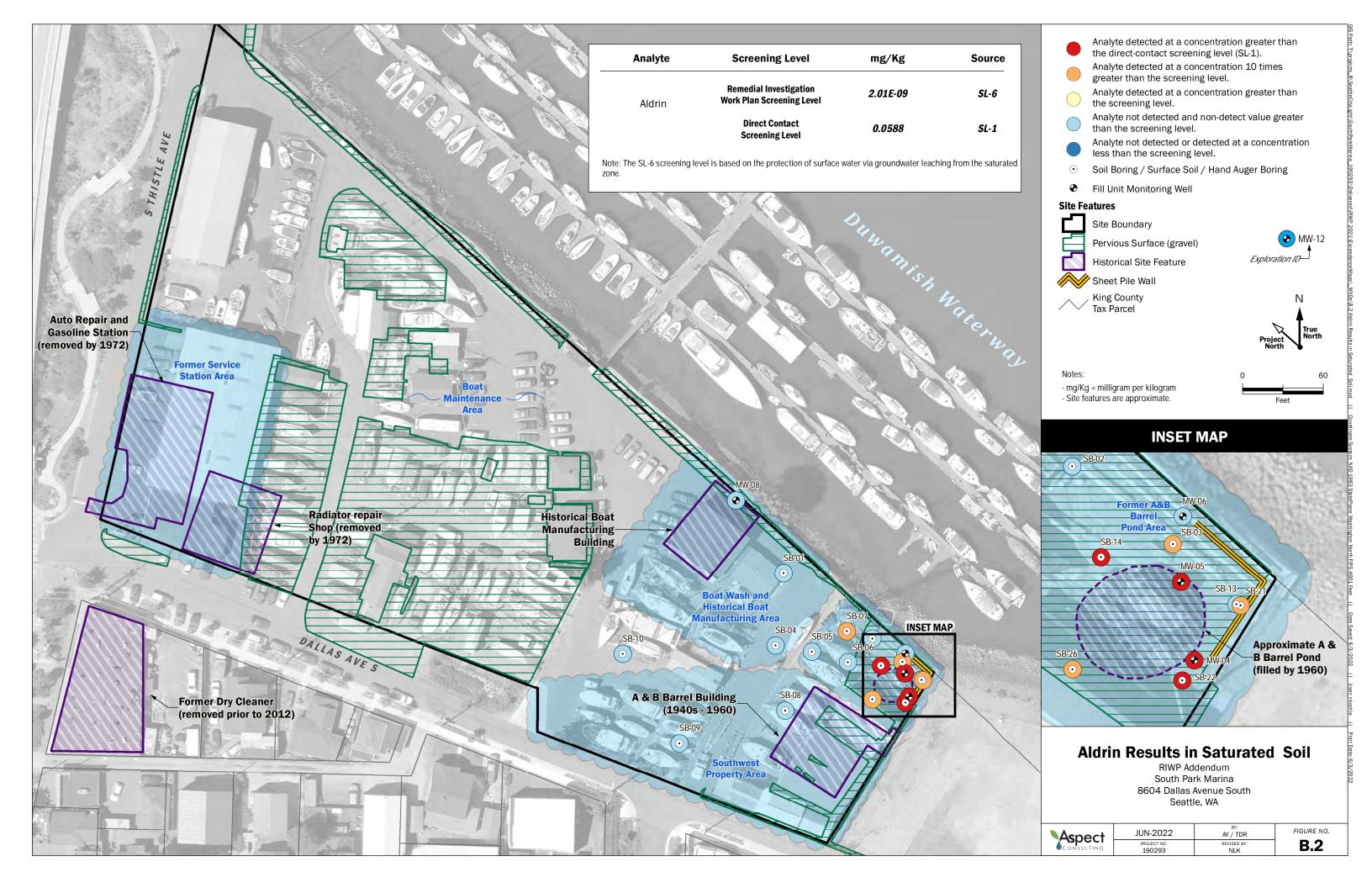
ug/L - micrograms per liter VOCs - Volatile Organic Compounds

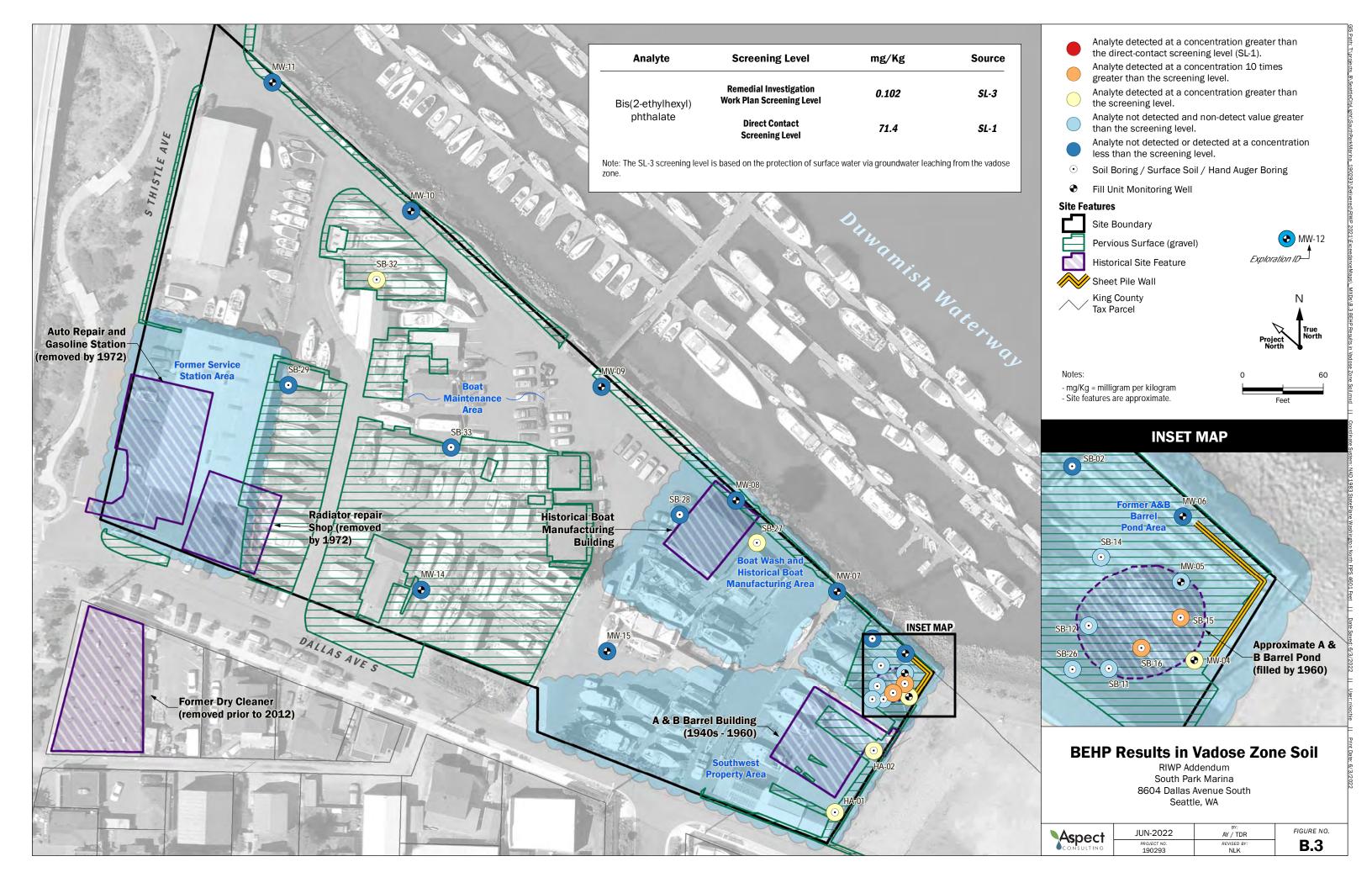
Many maximum and minimum reporting limits were not explicitly listed in the historical database. We have assumed the values given for non-detect results are the reporting limit where historical reporting limits were omitted. Therefore some of the maximum and minimum reporting limits are based on non-detect results only. This table only includes well results, not grab groundwater results.

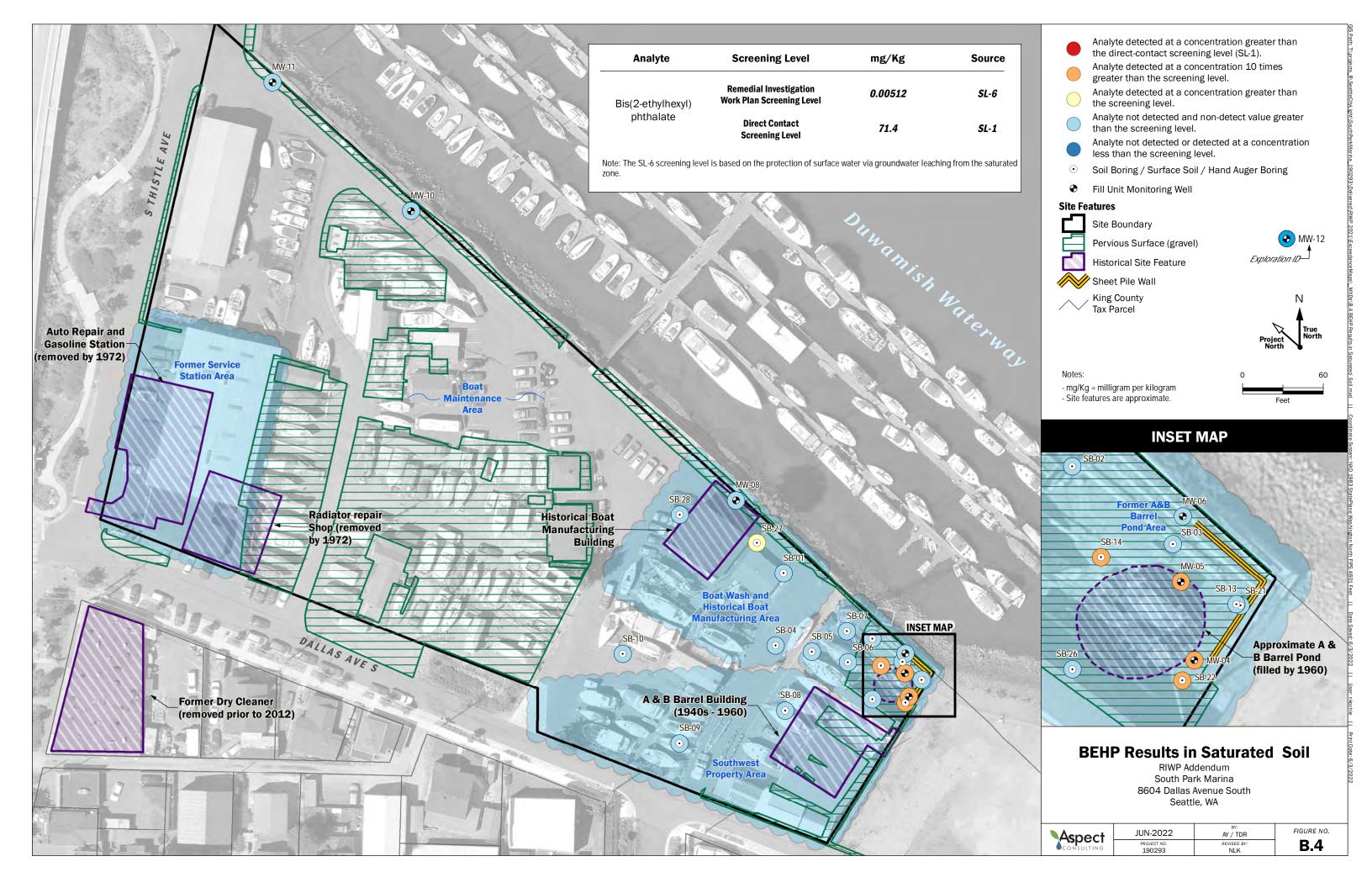
APPENDIX B

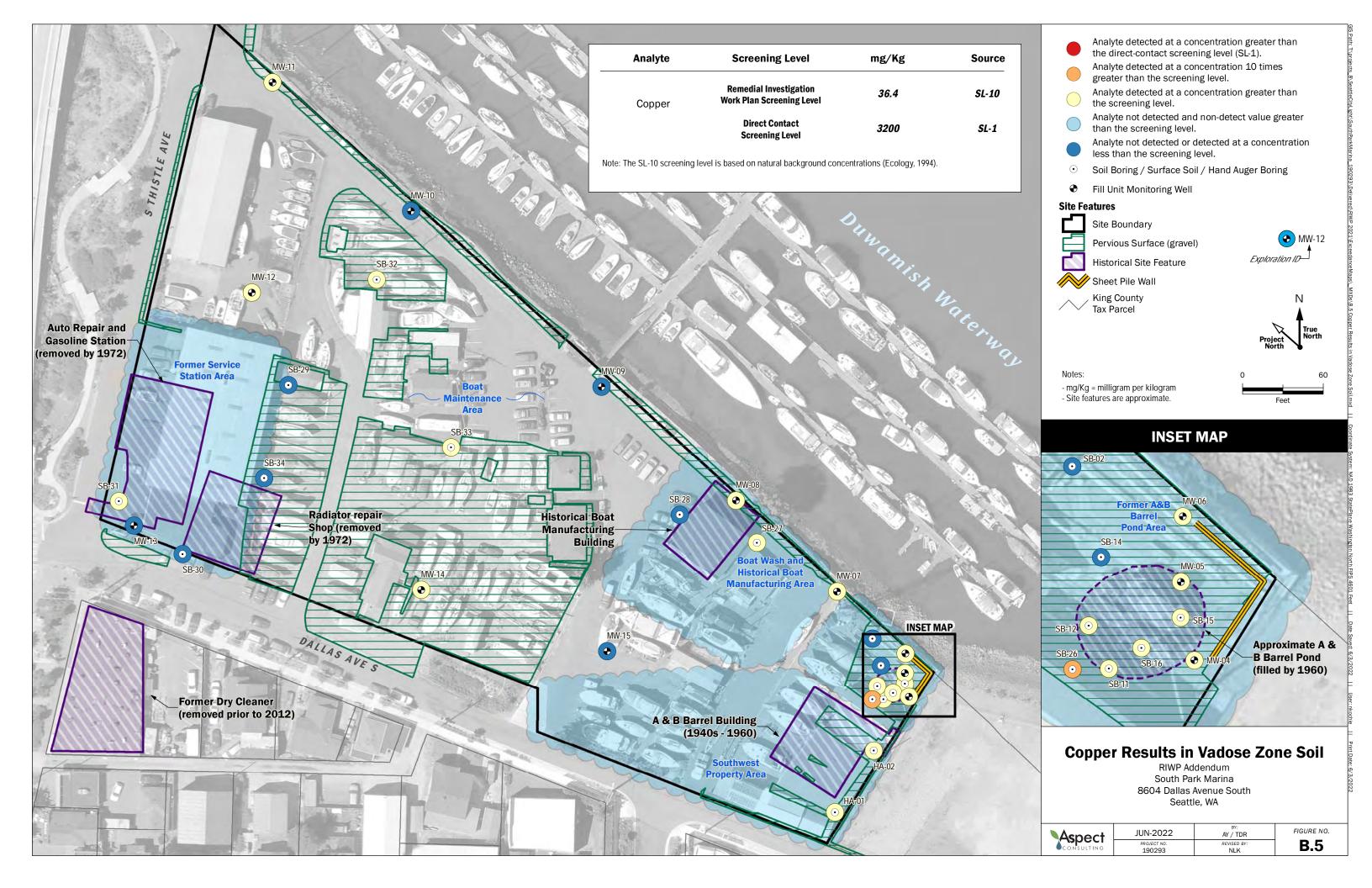
Figures

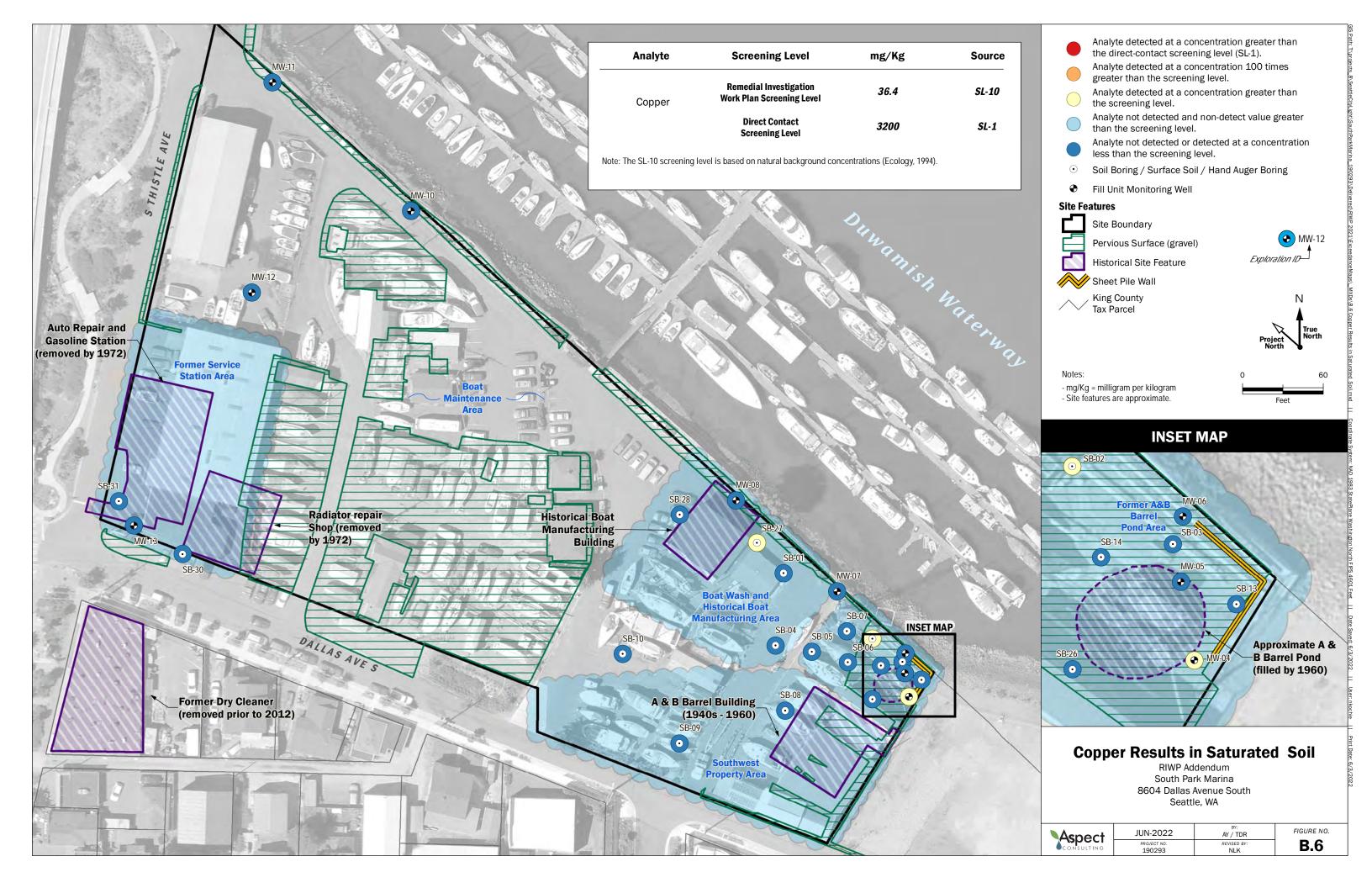


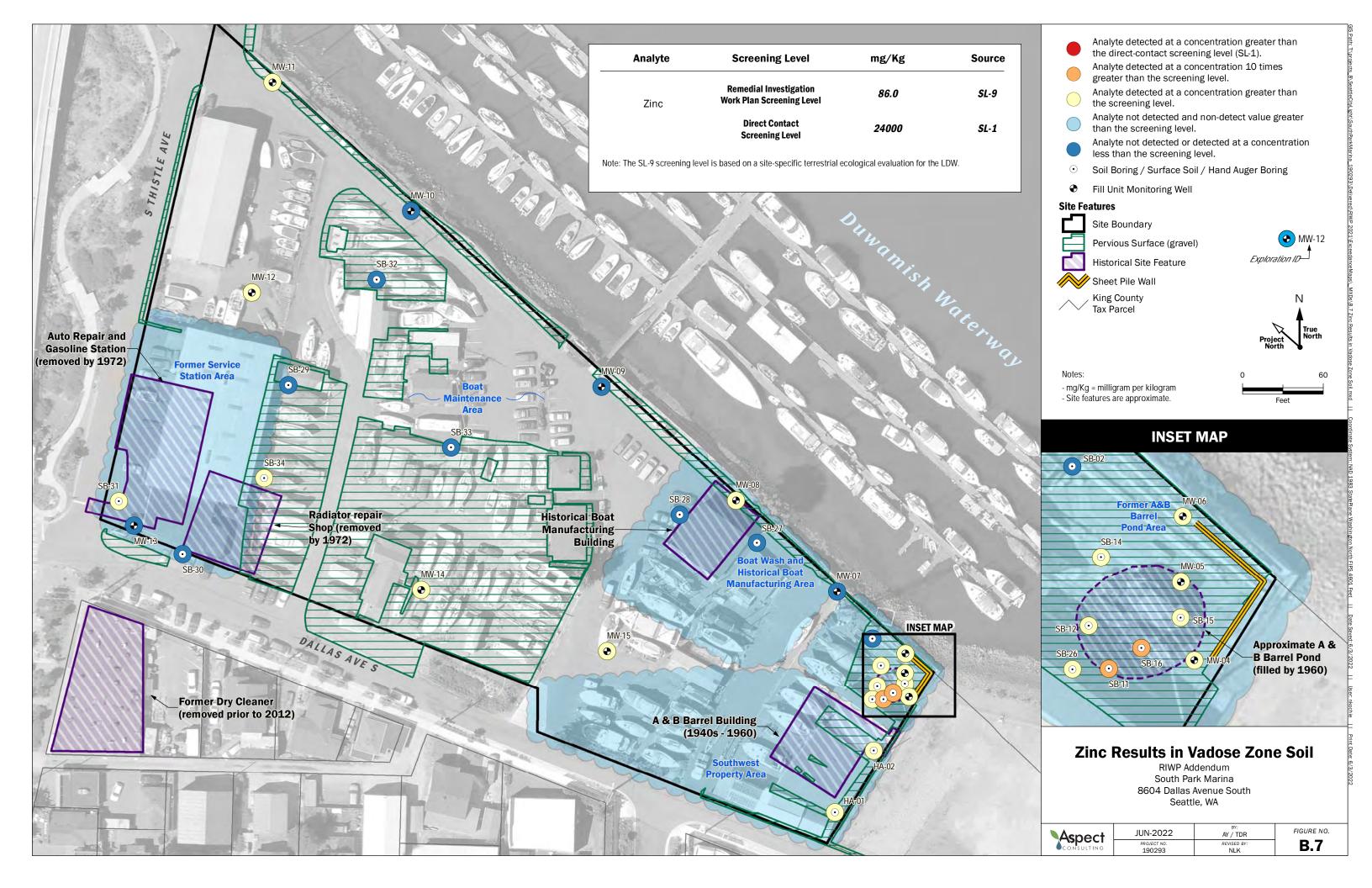


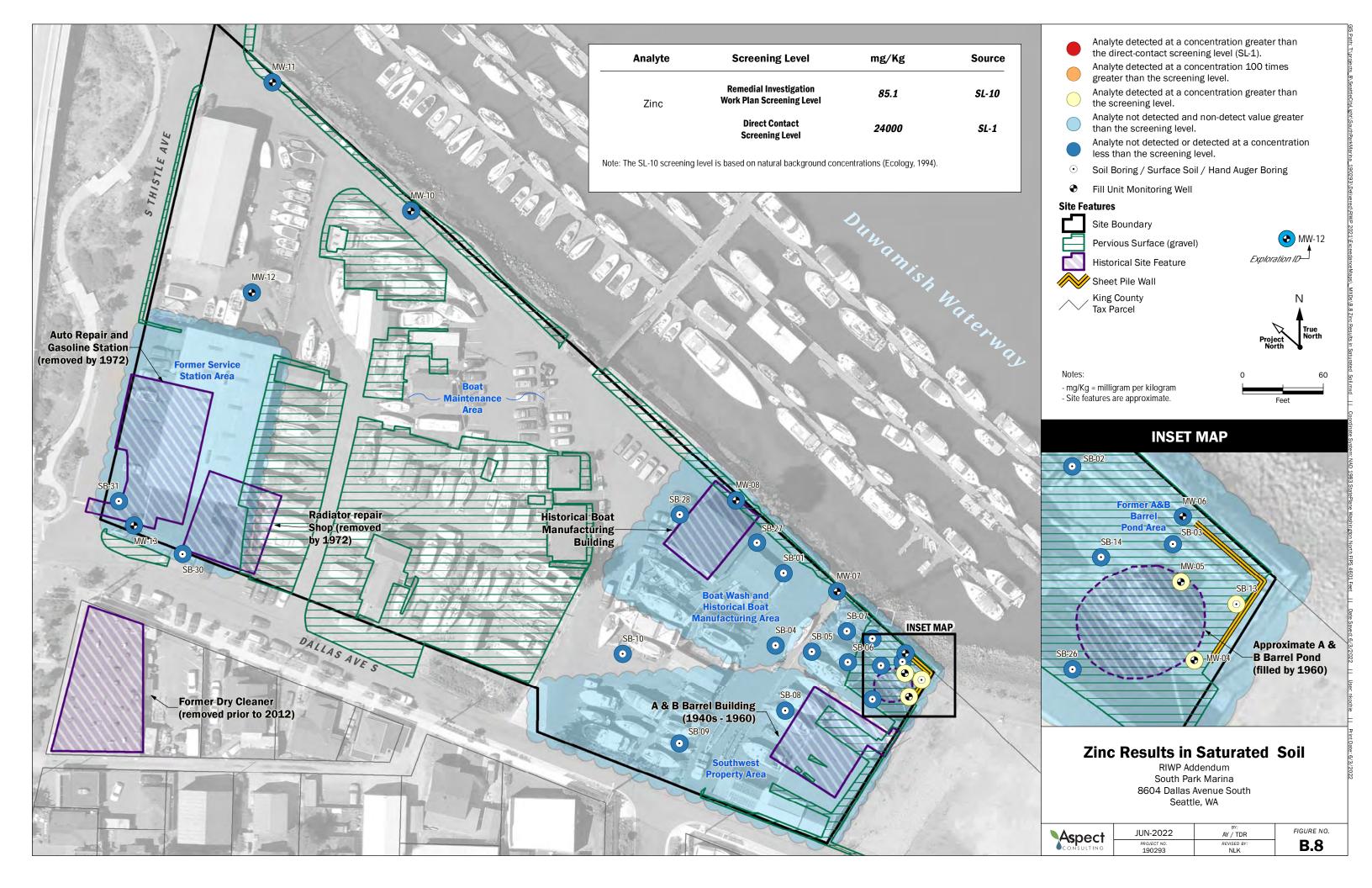


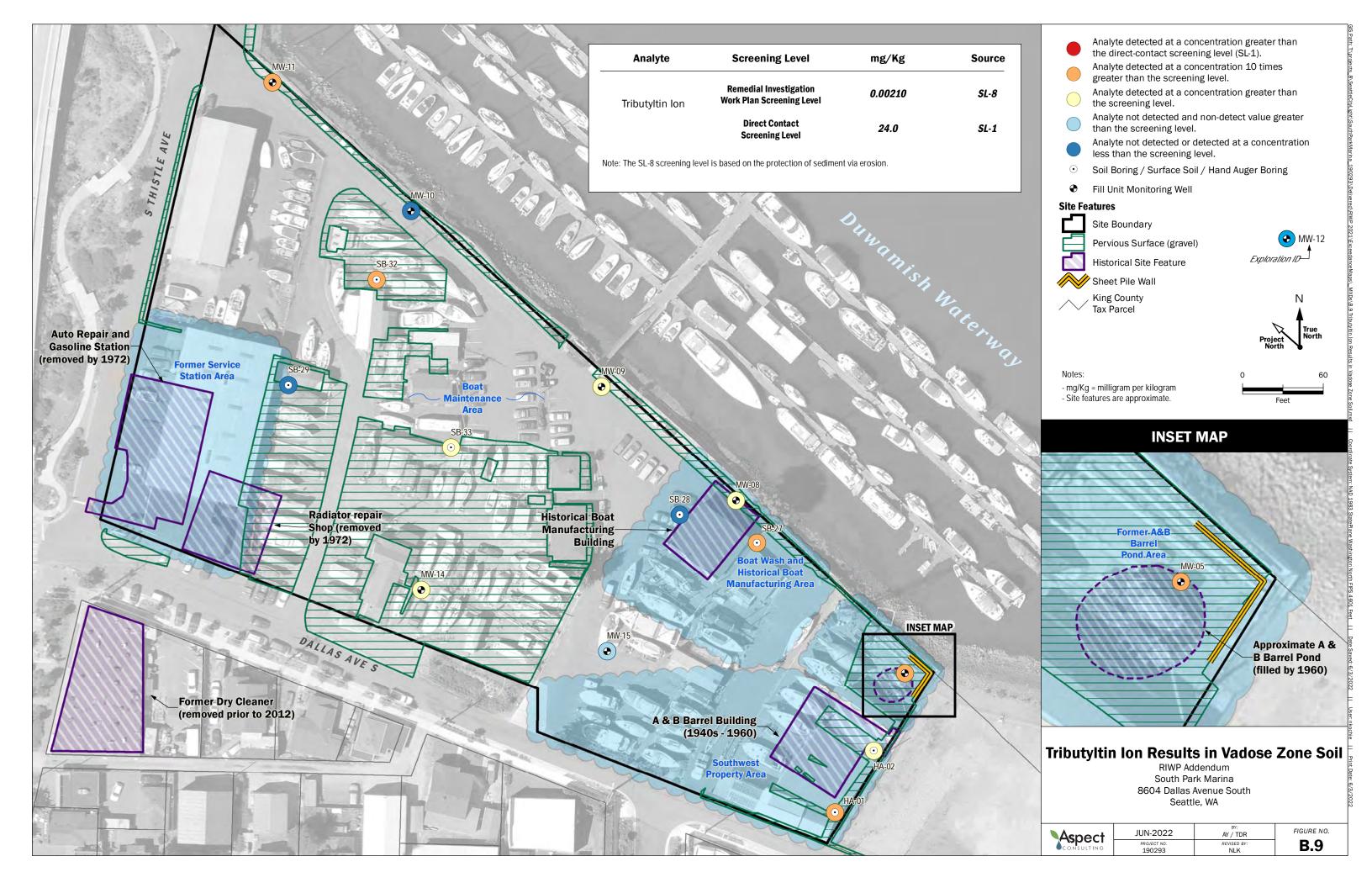


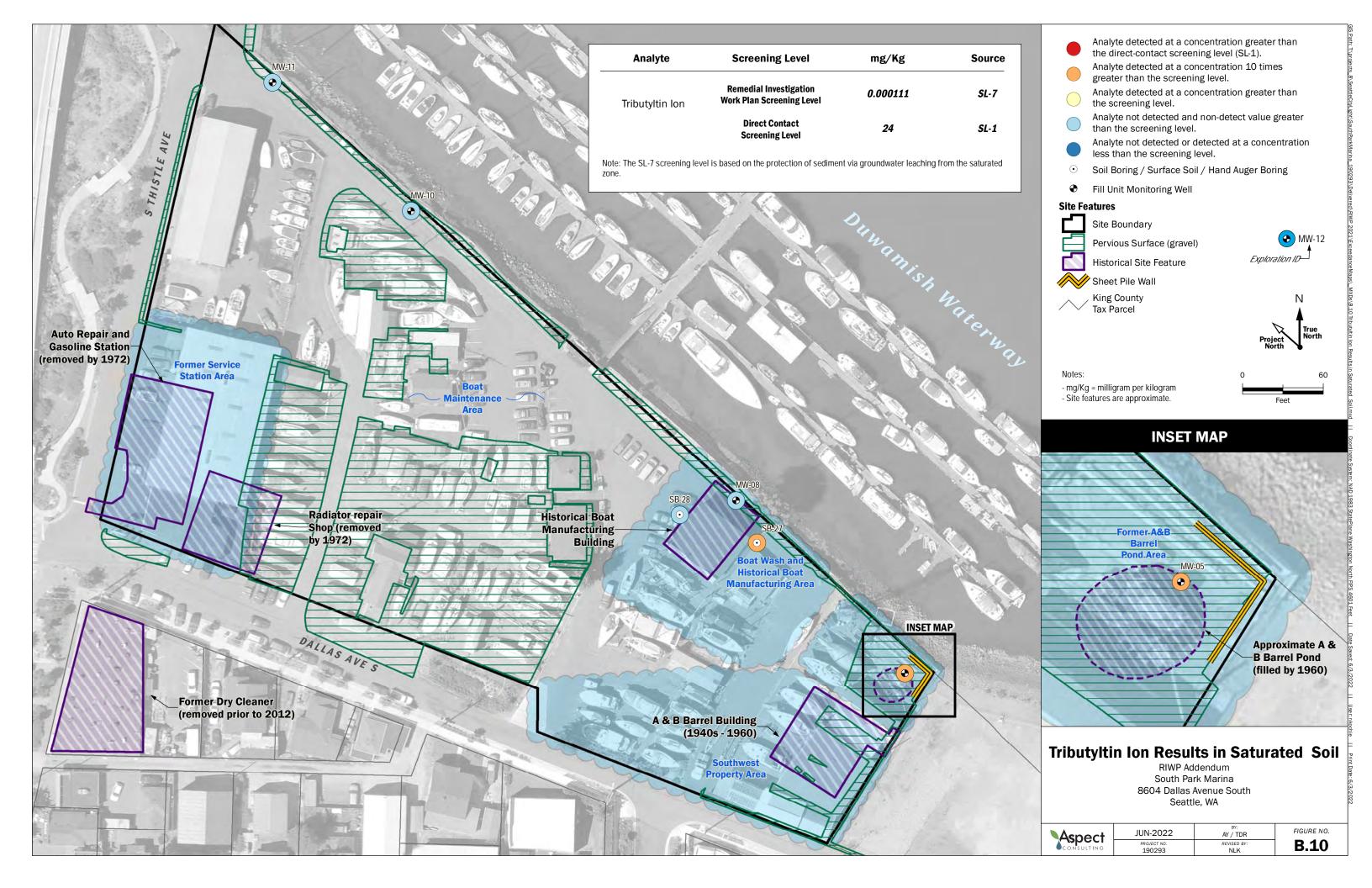


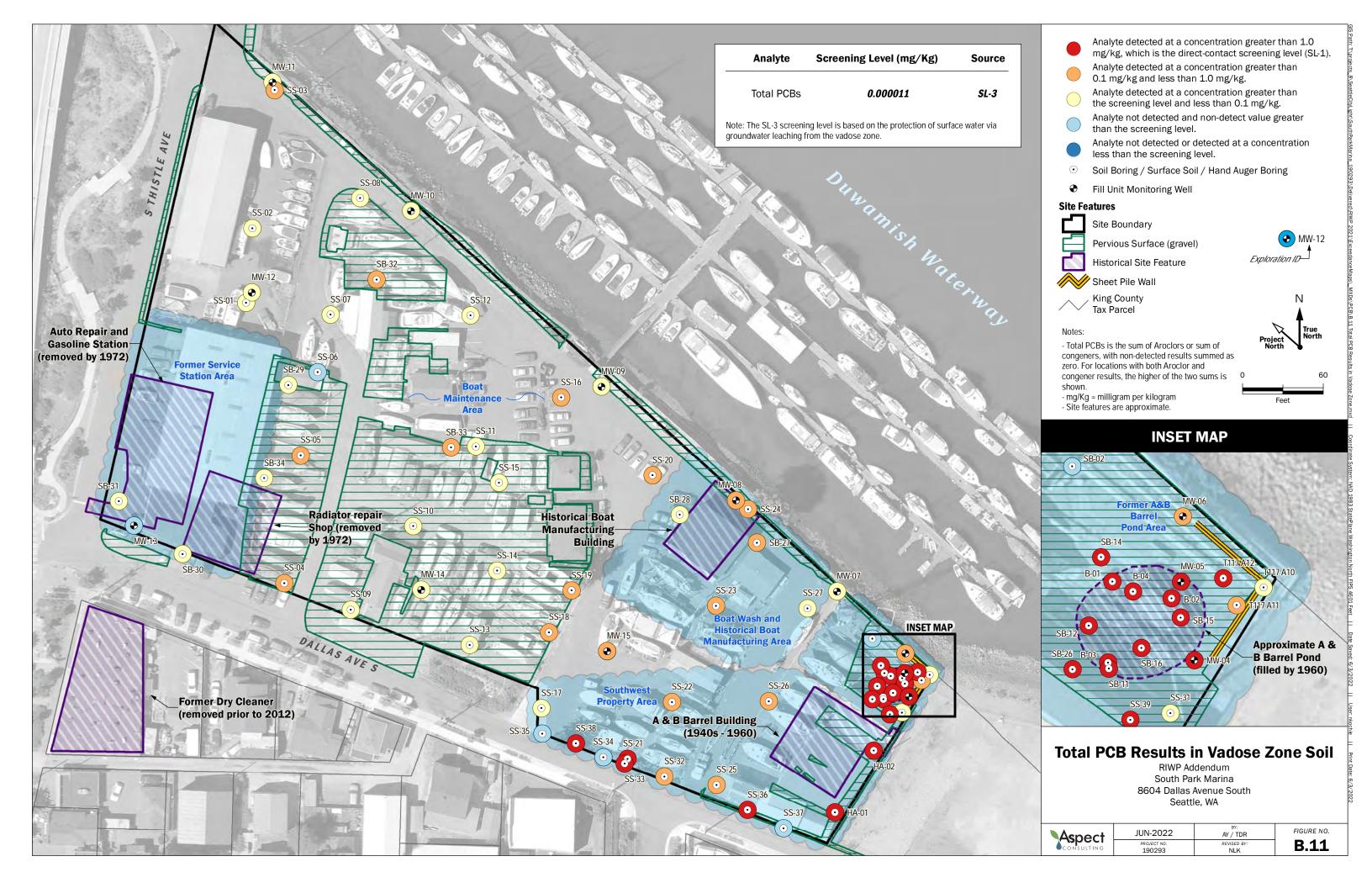


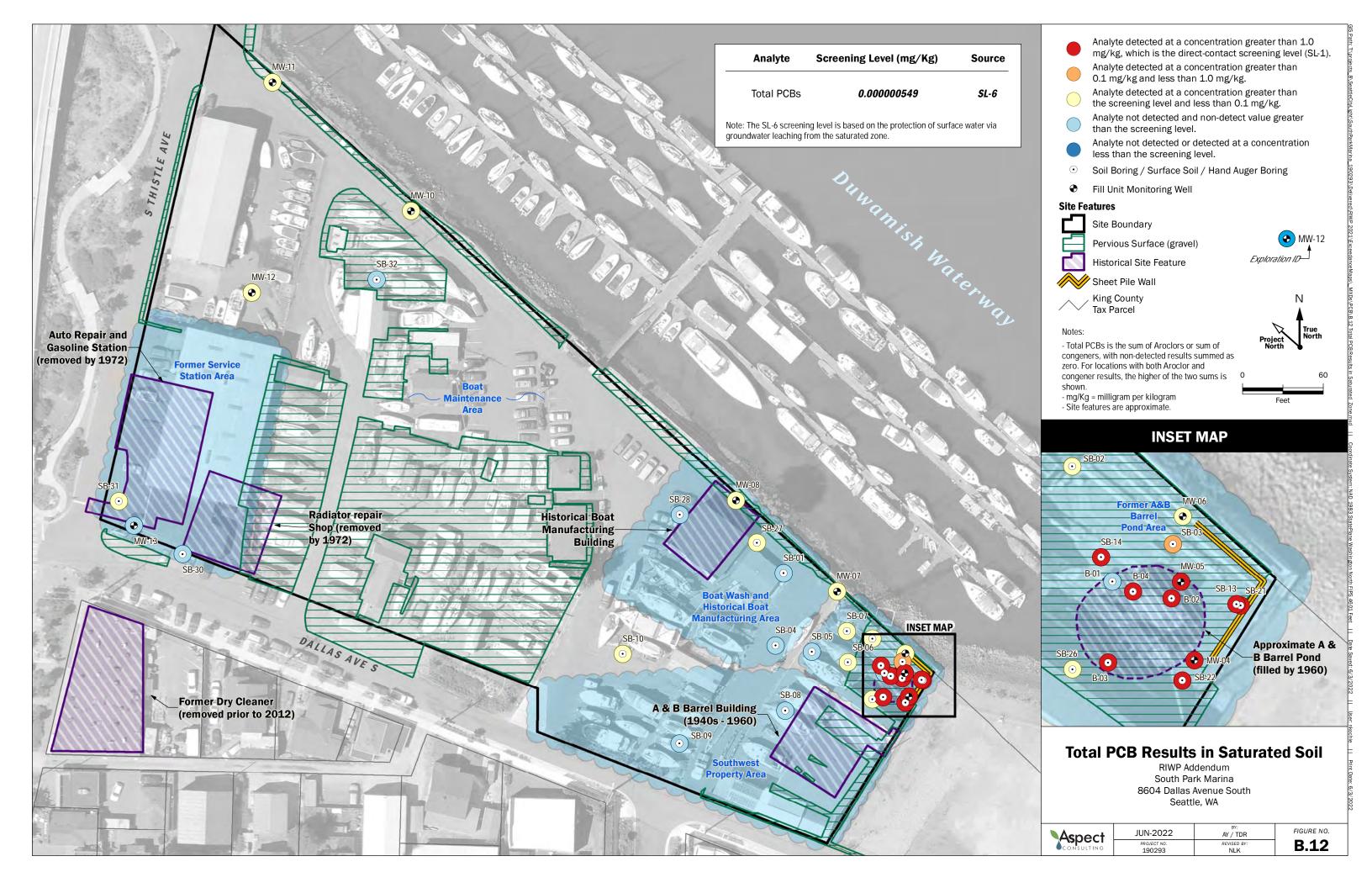


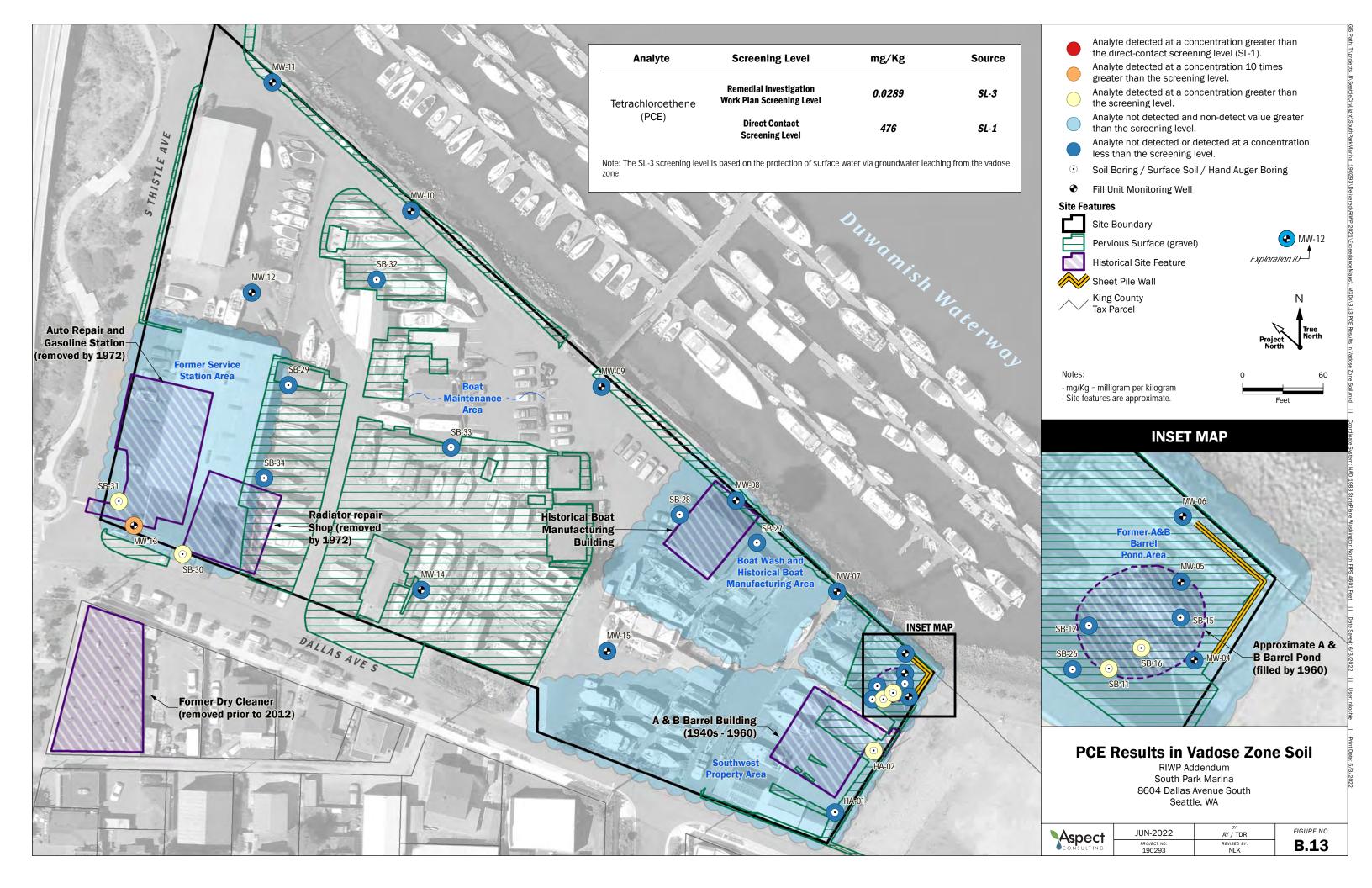


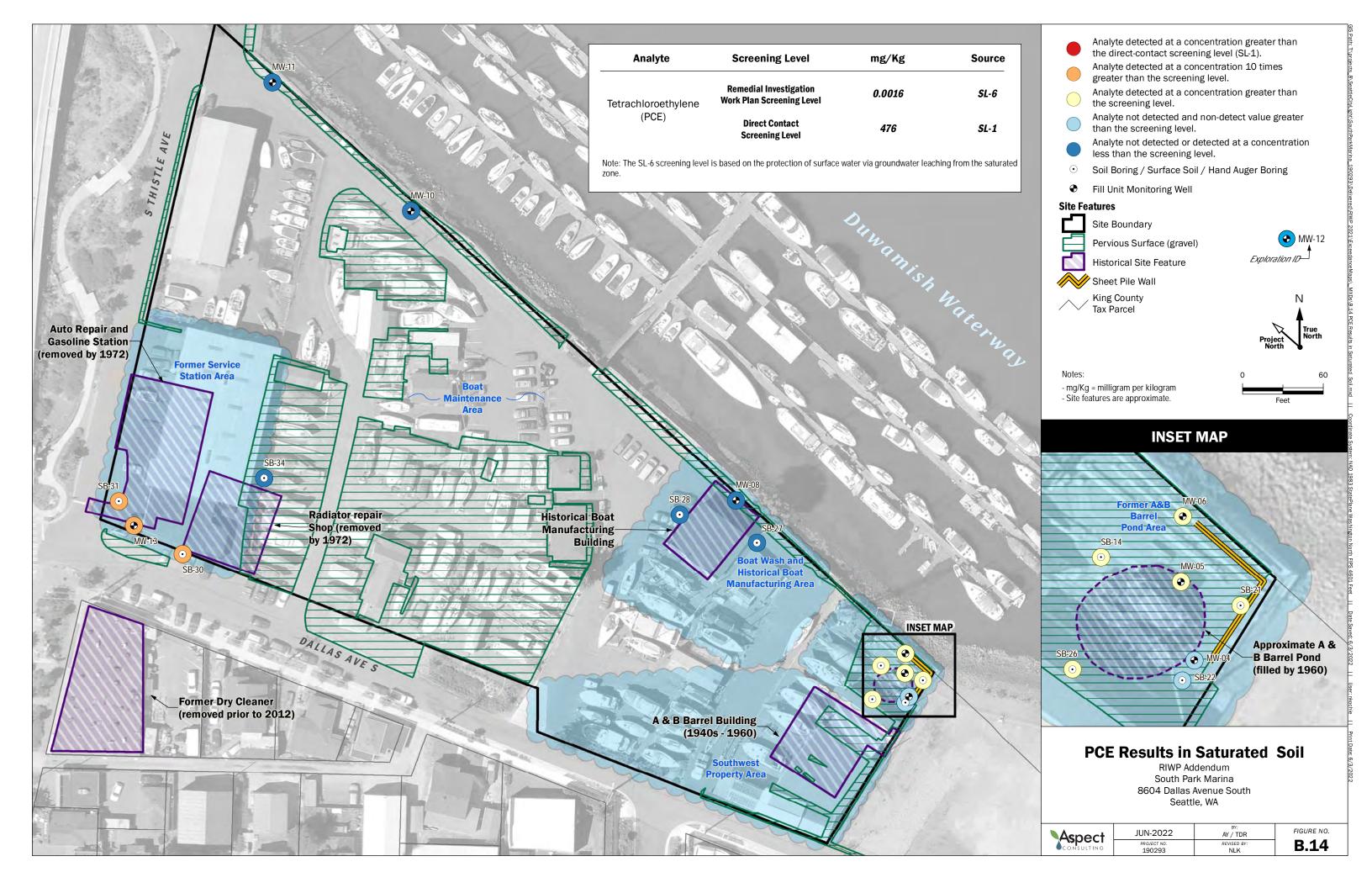


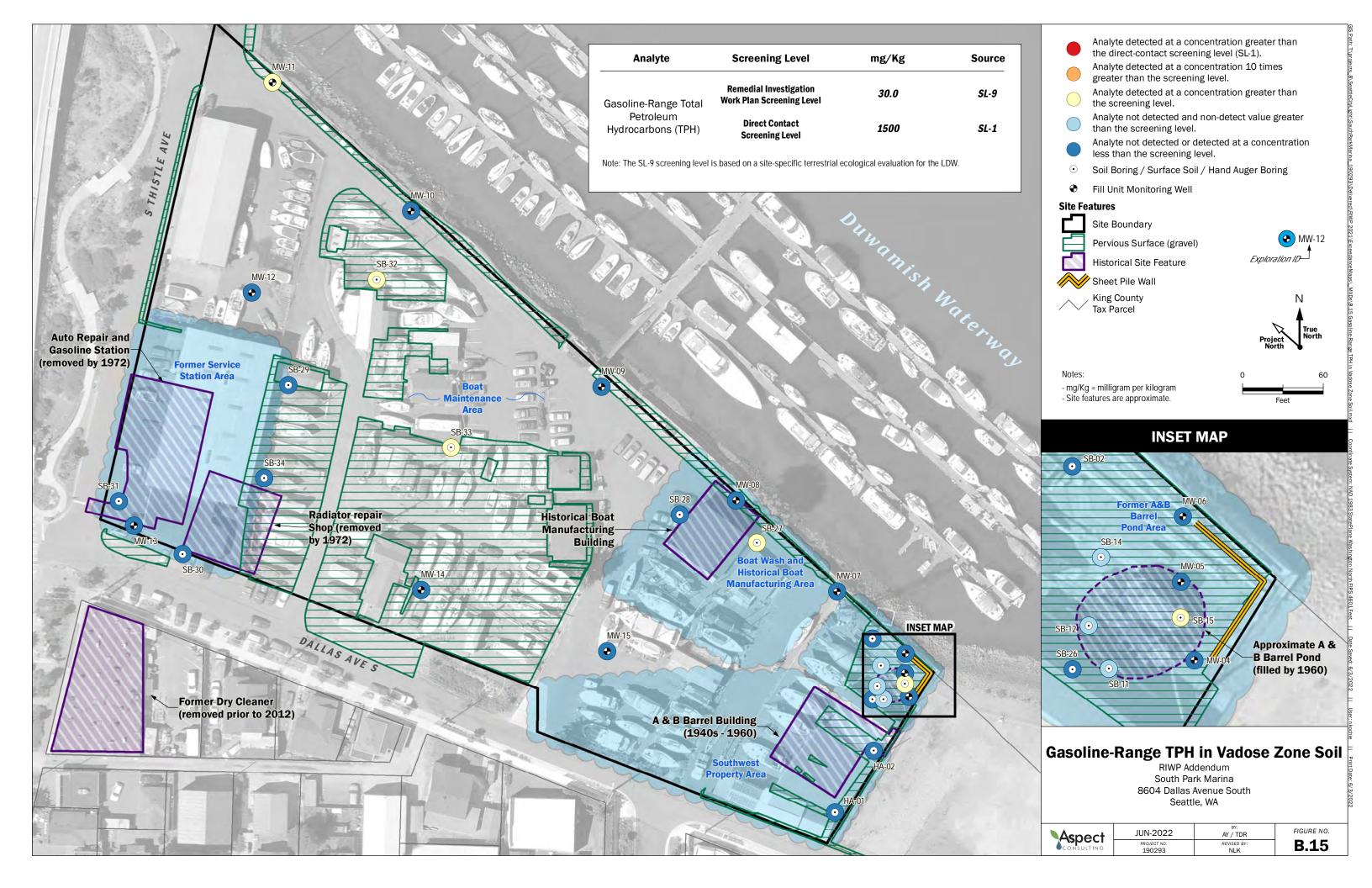


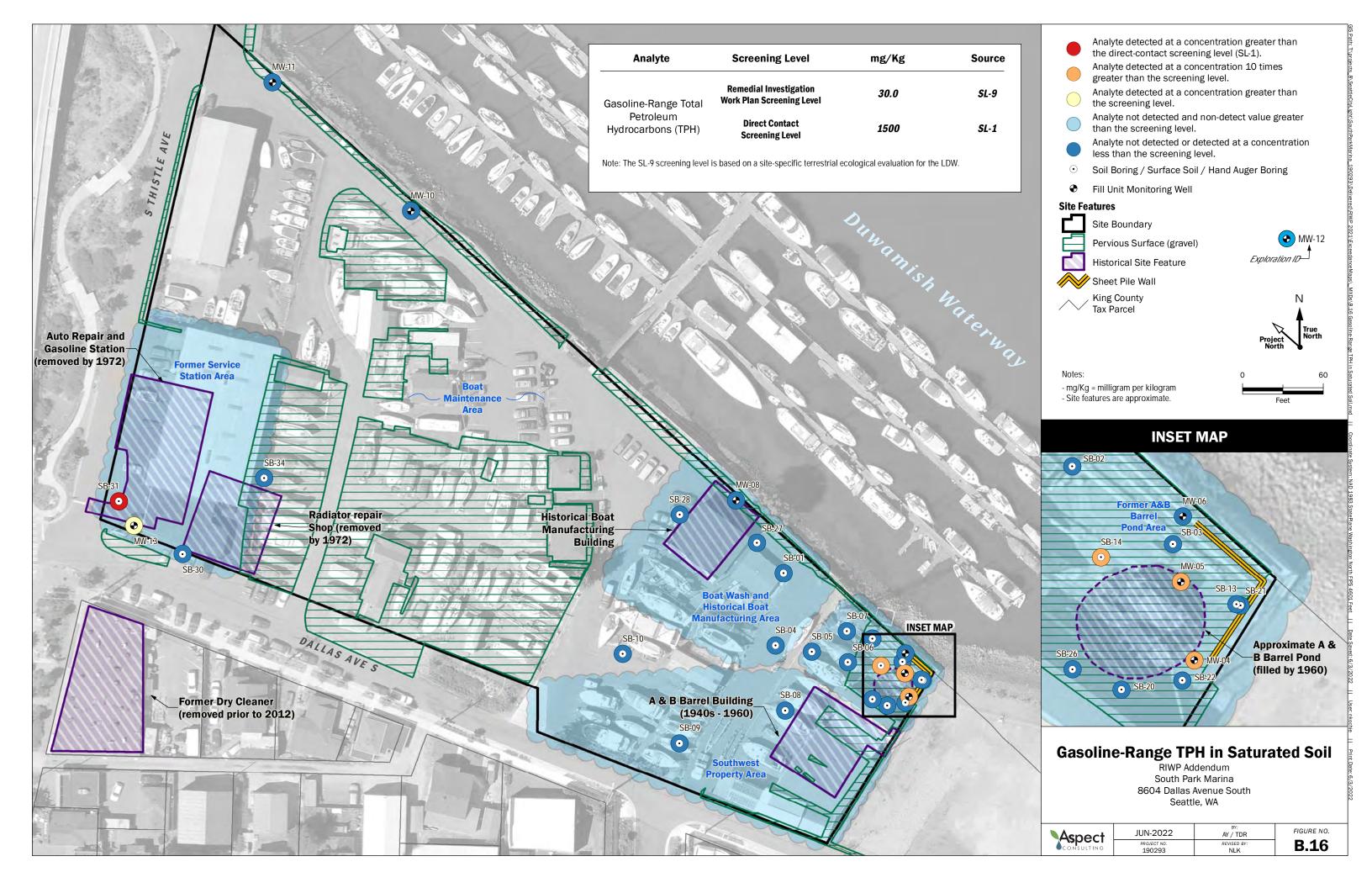


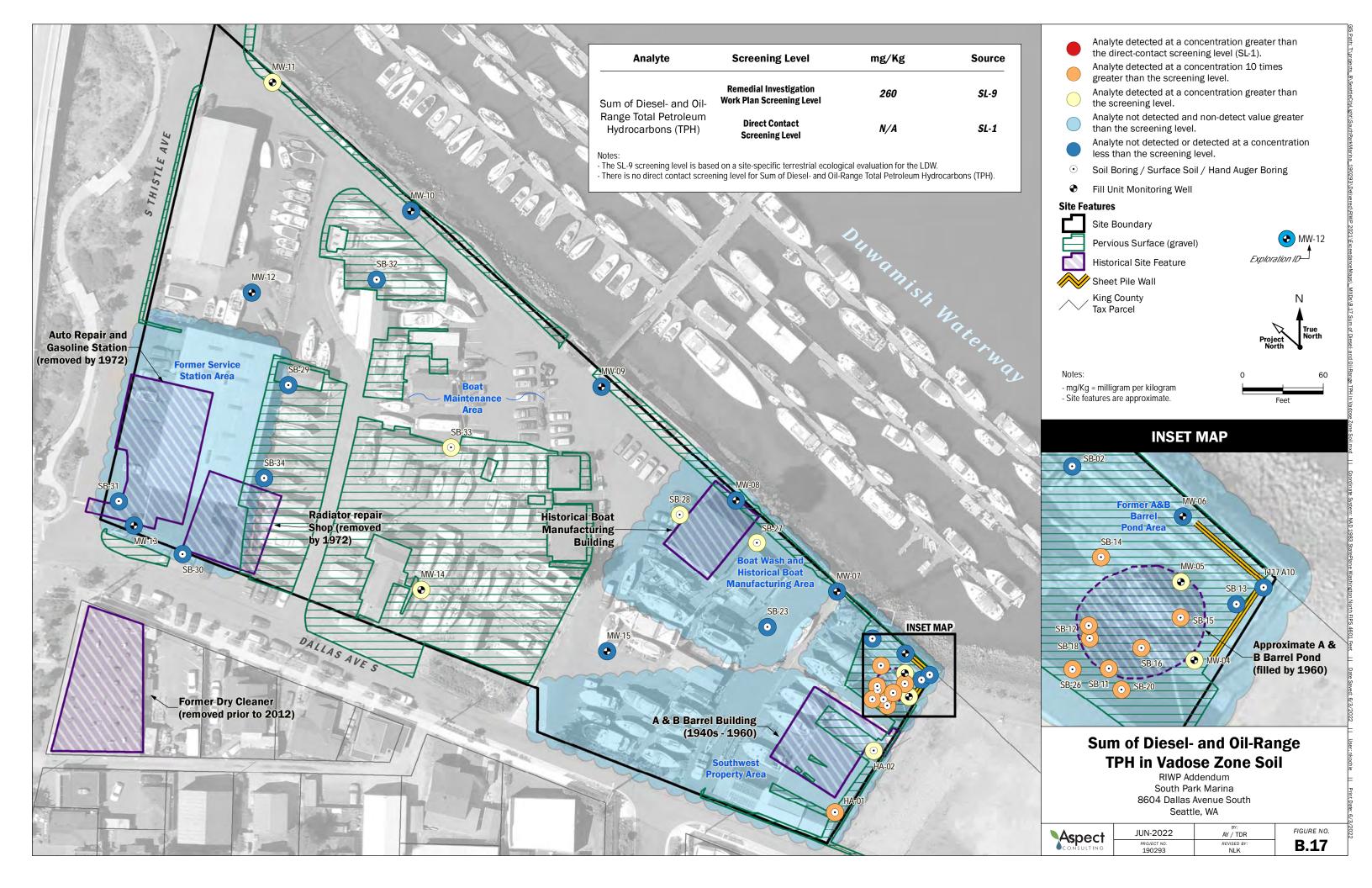


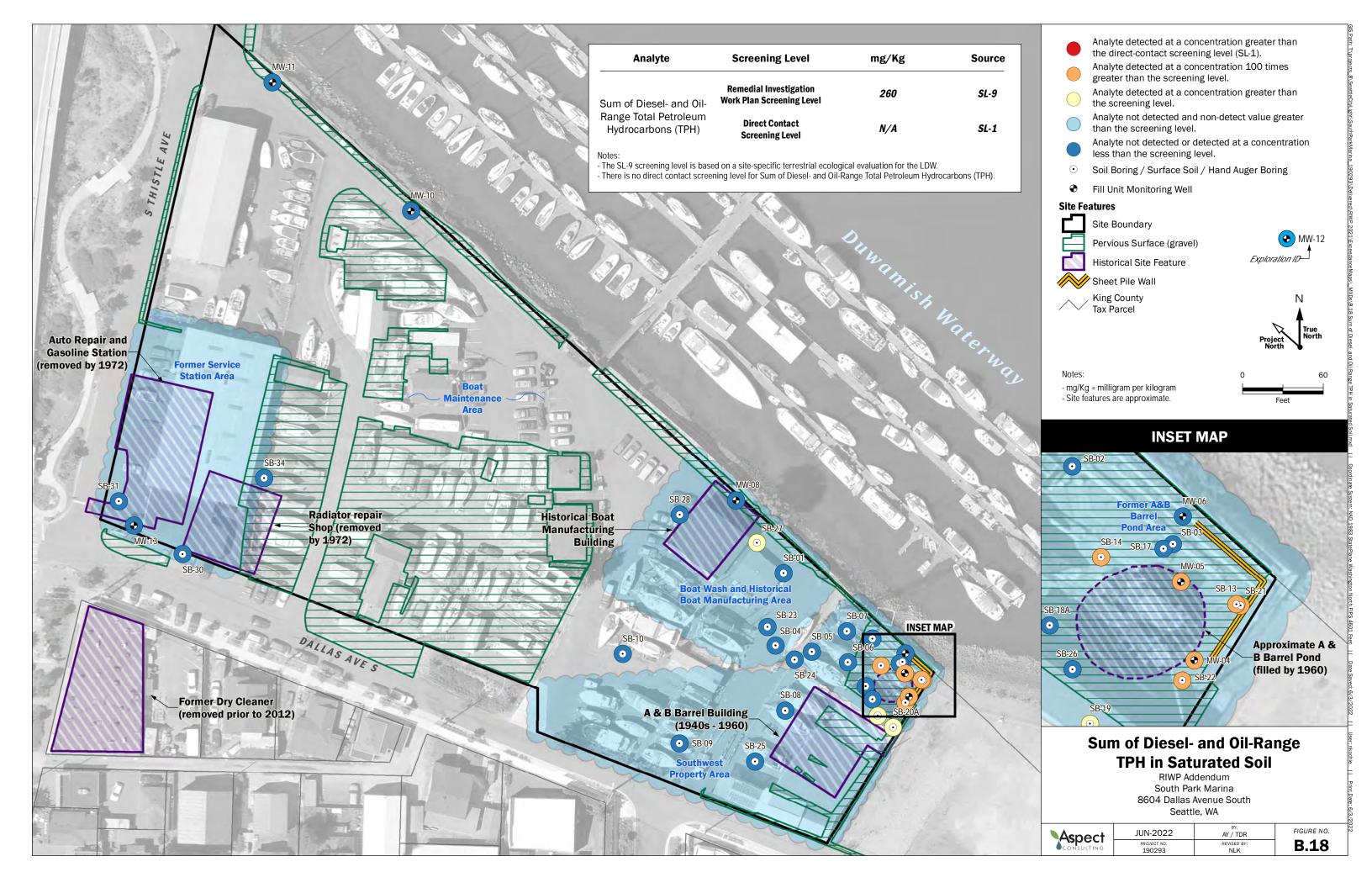


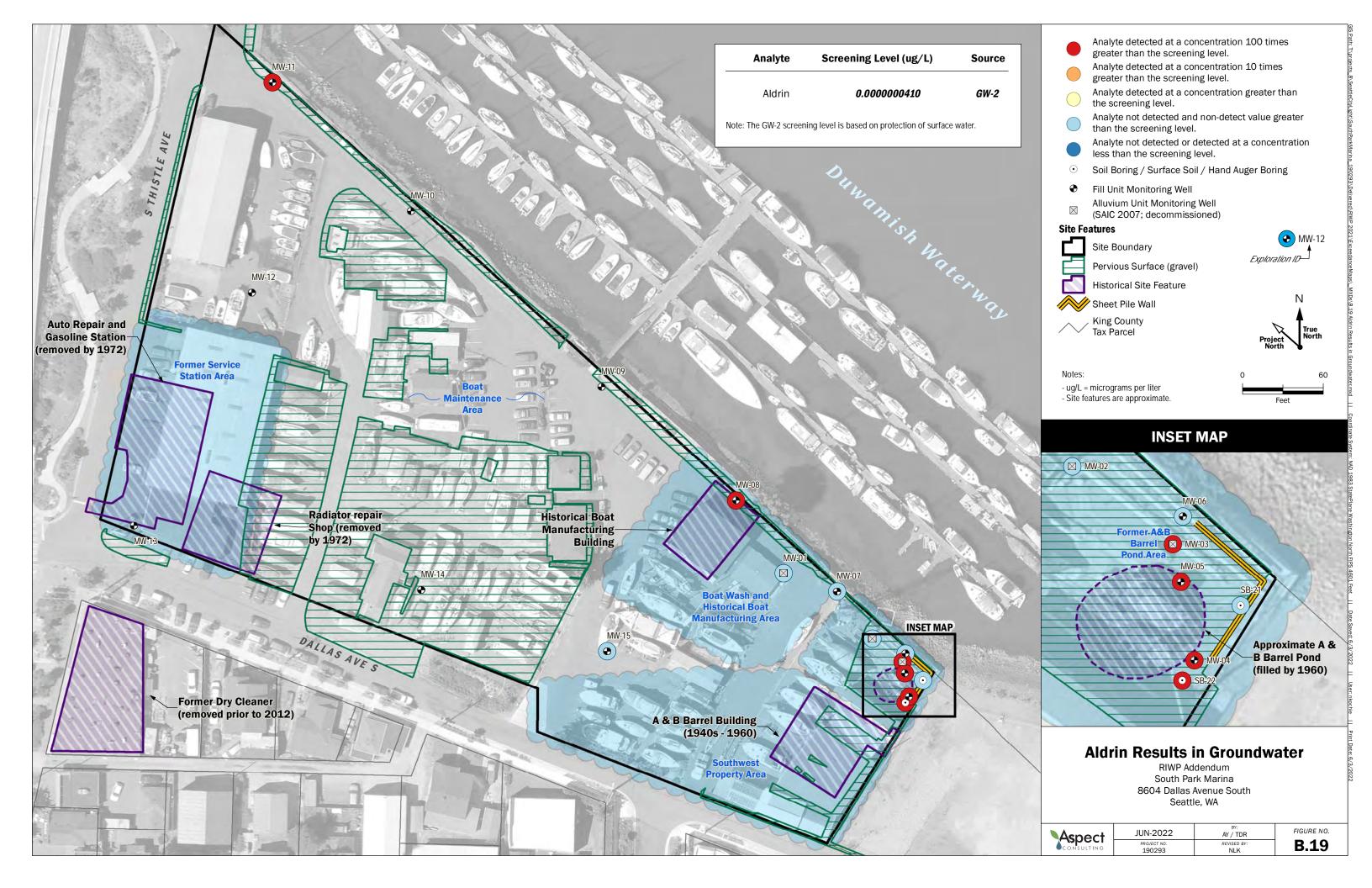


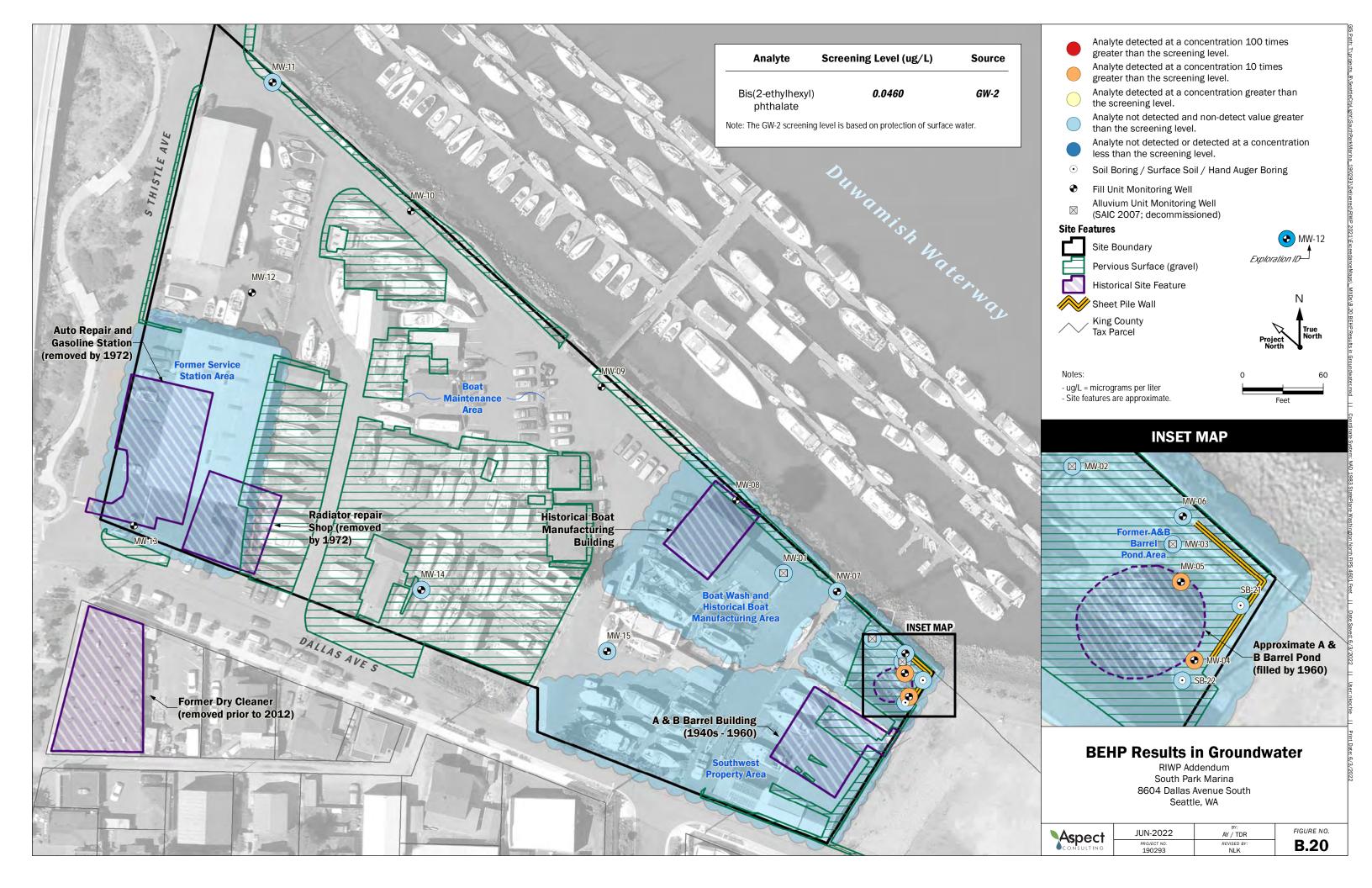


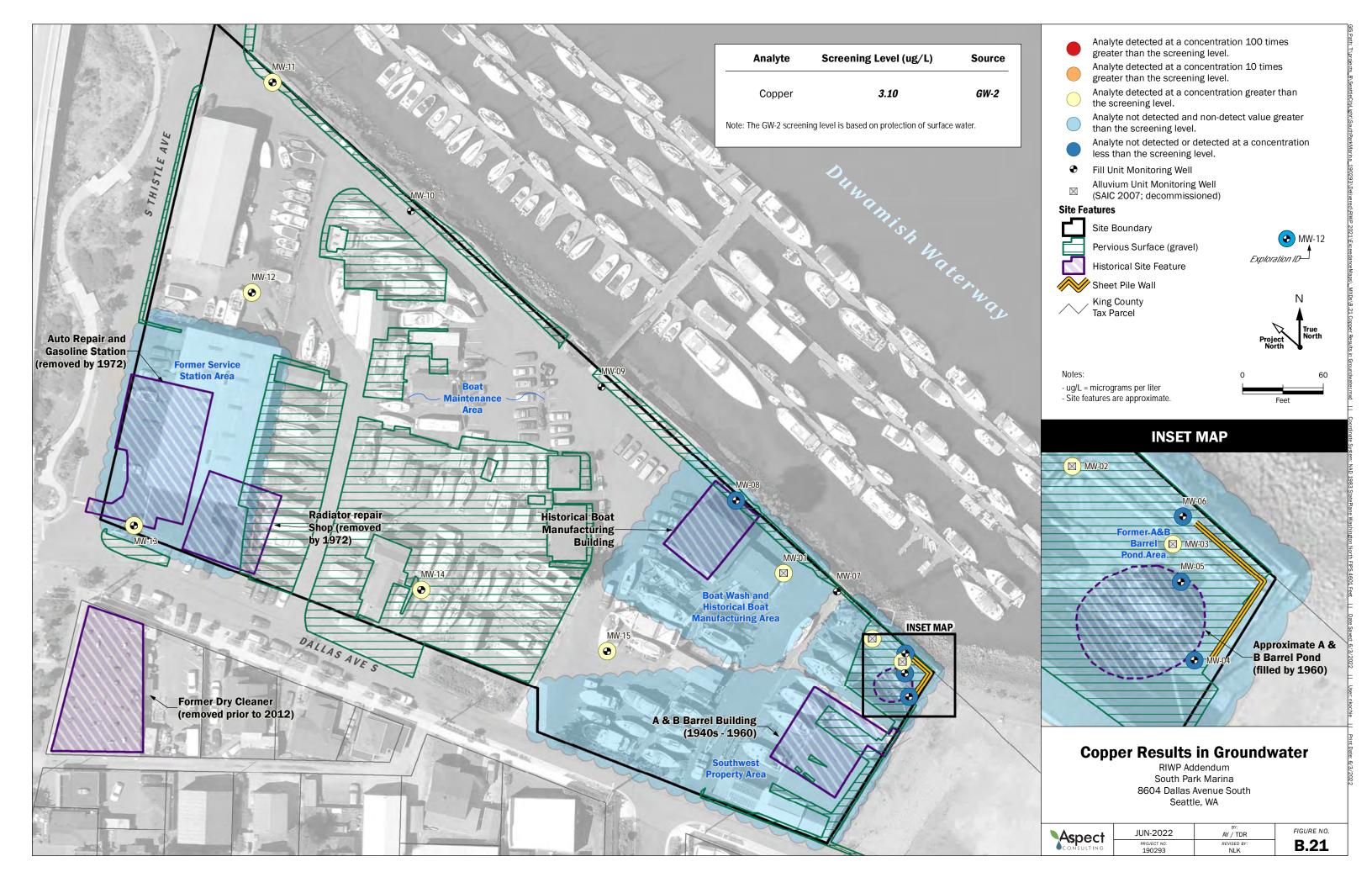


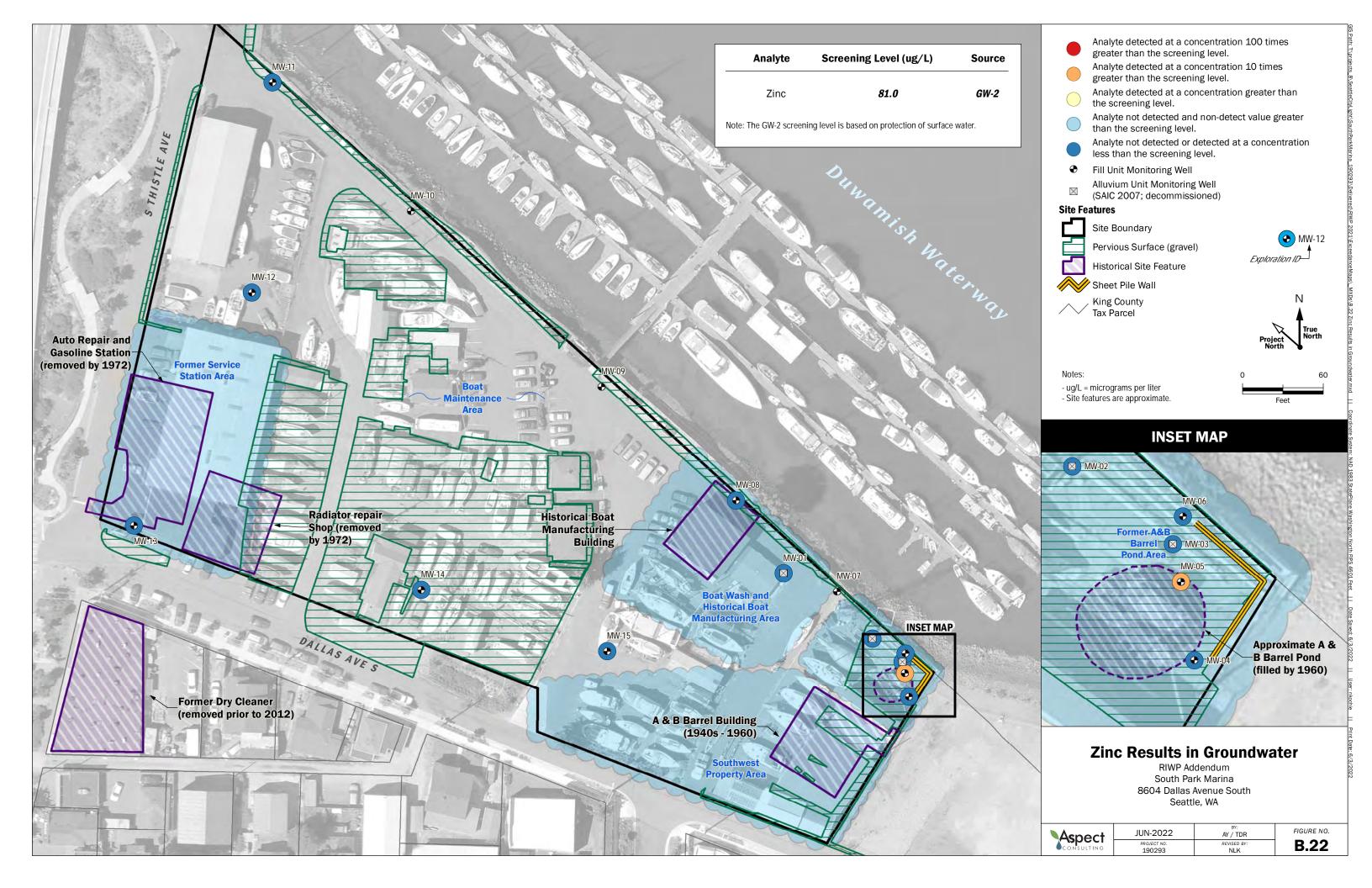


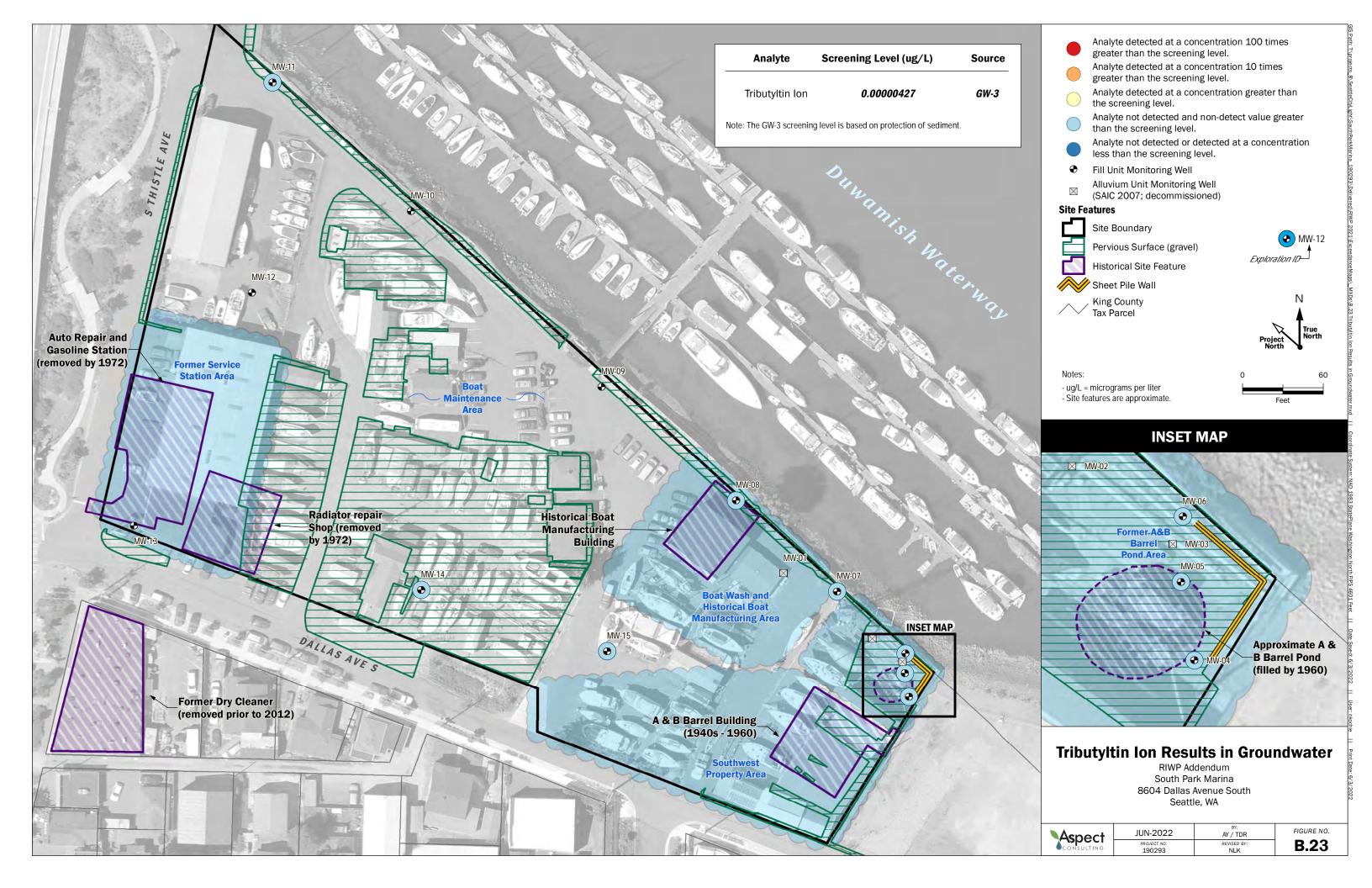


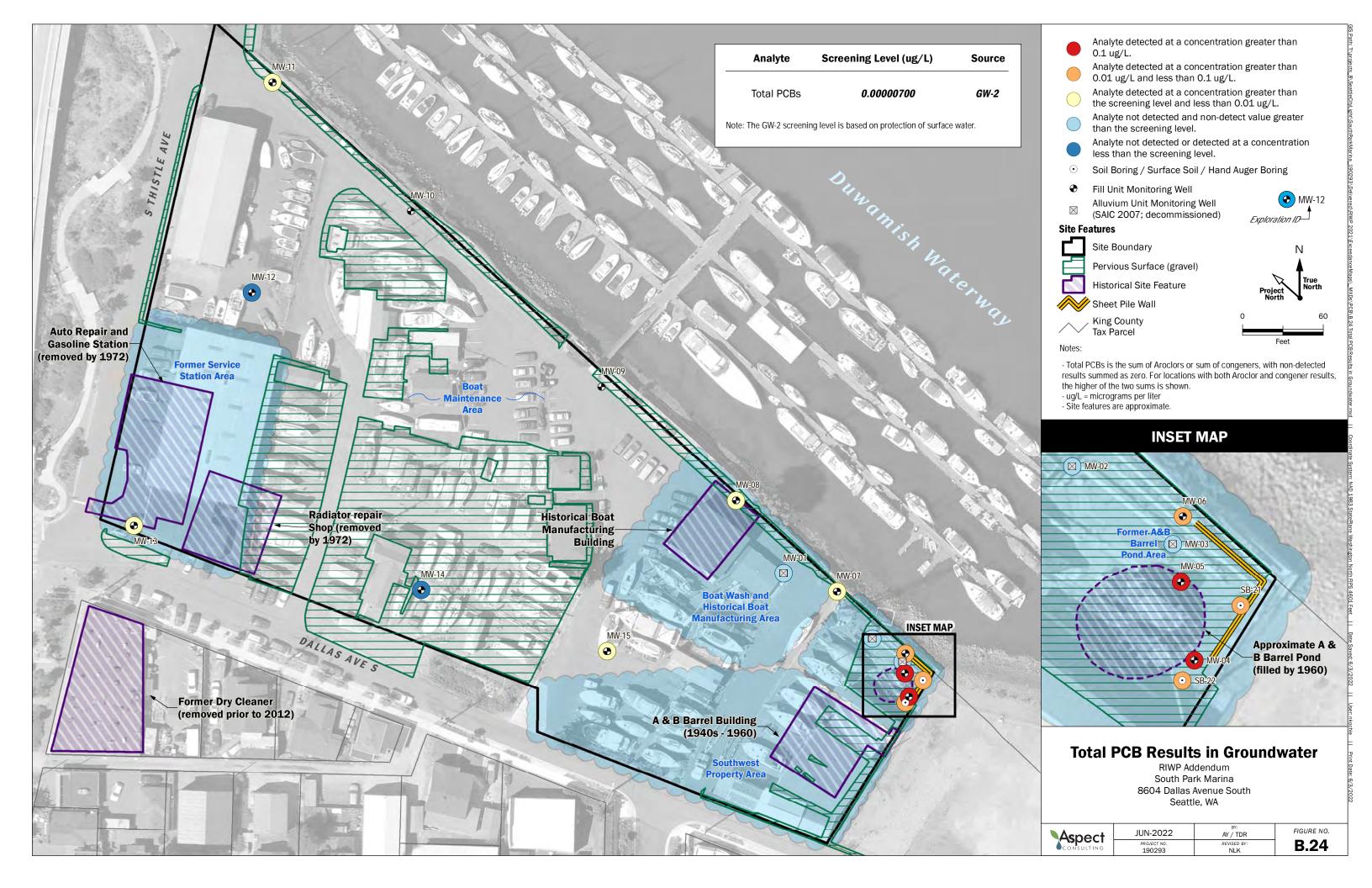


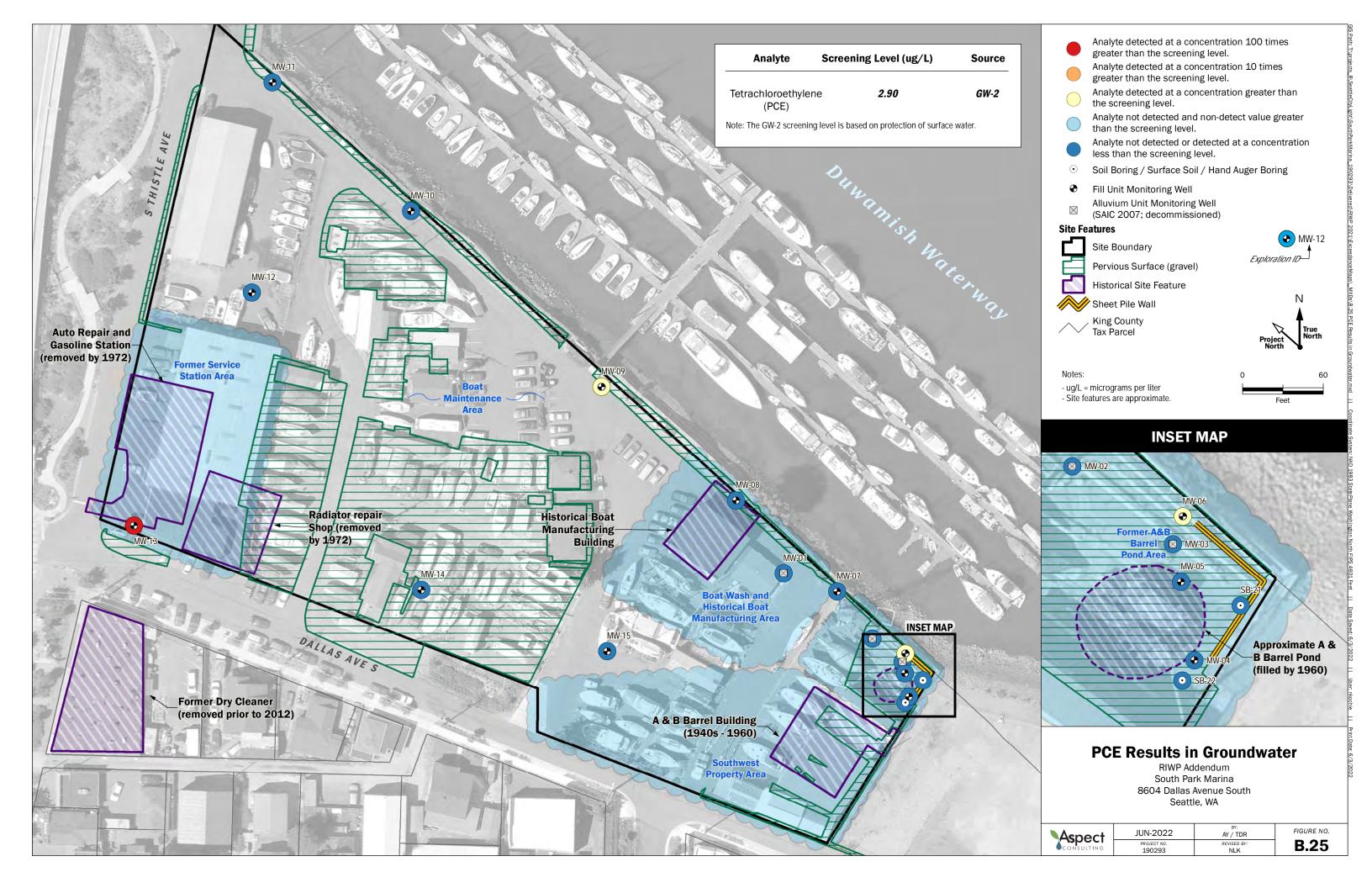


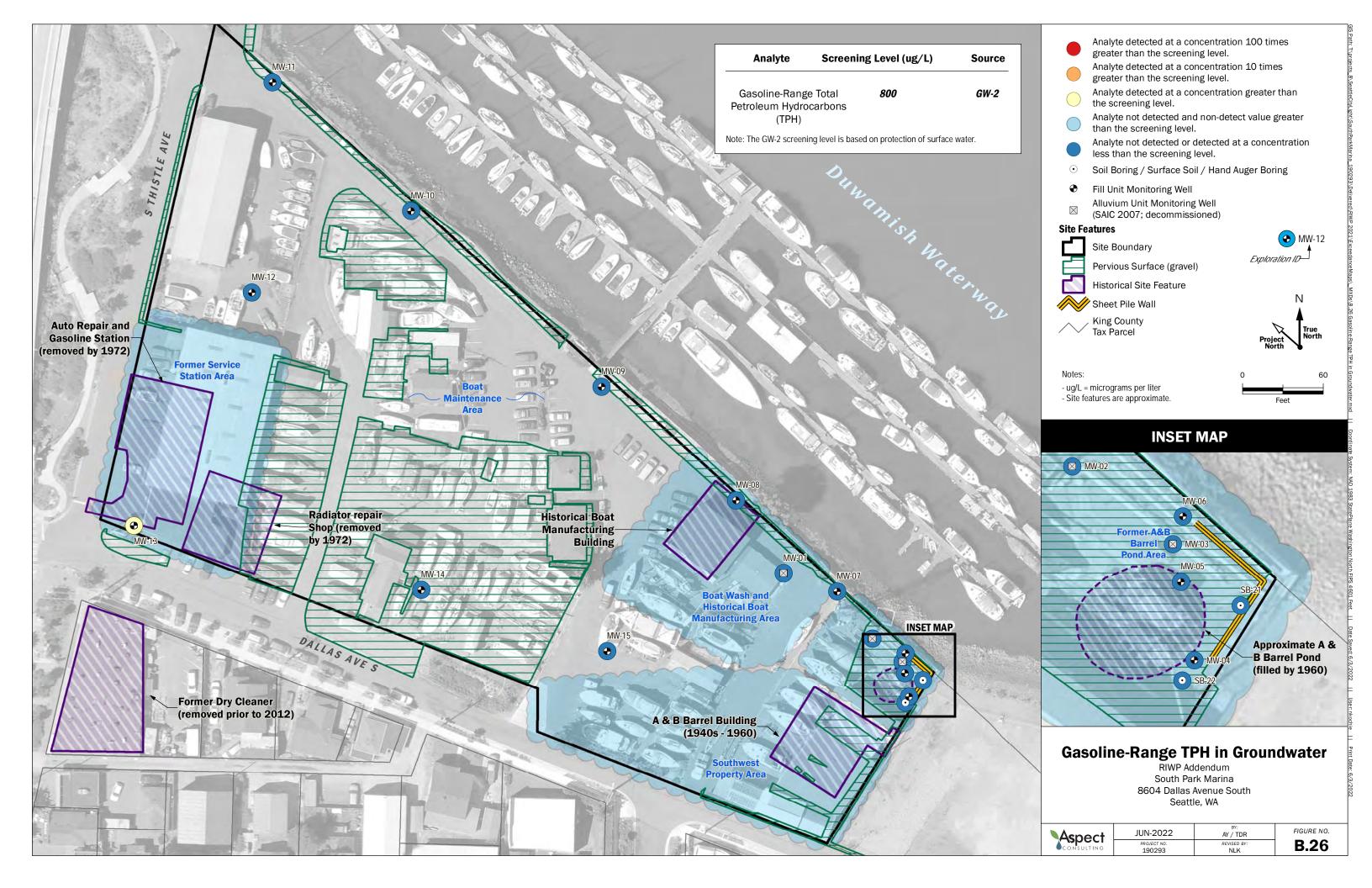


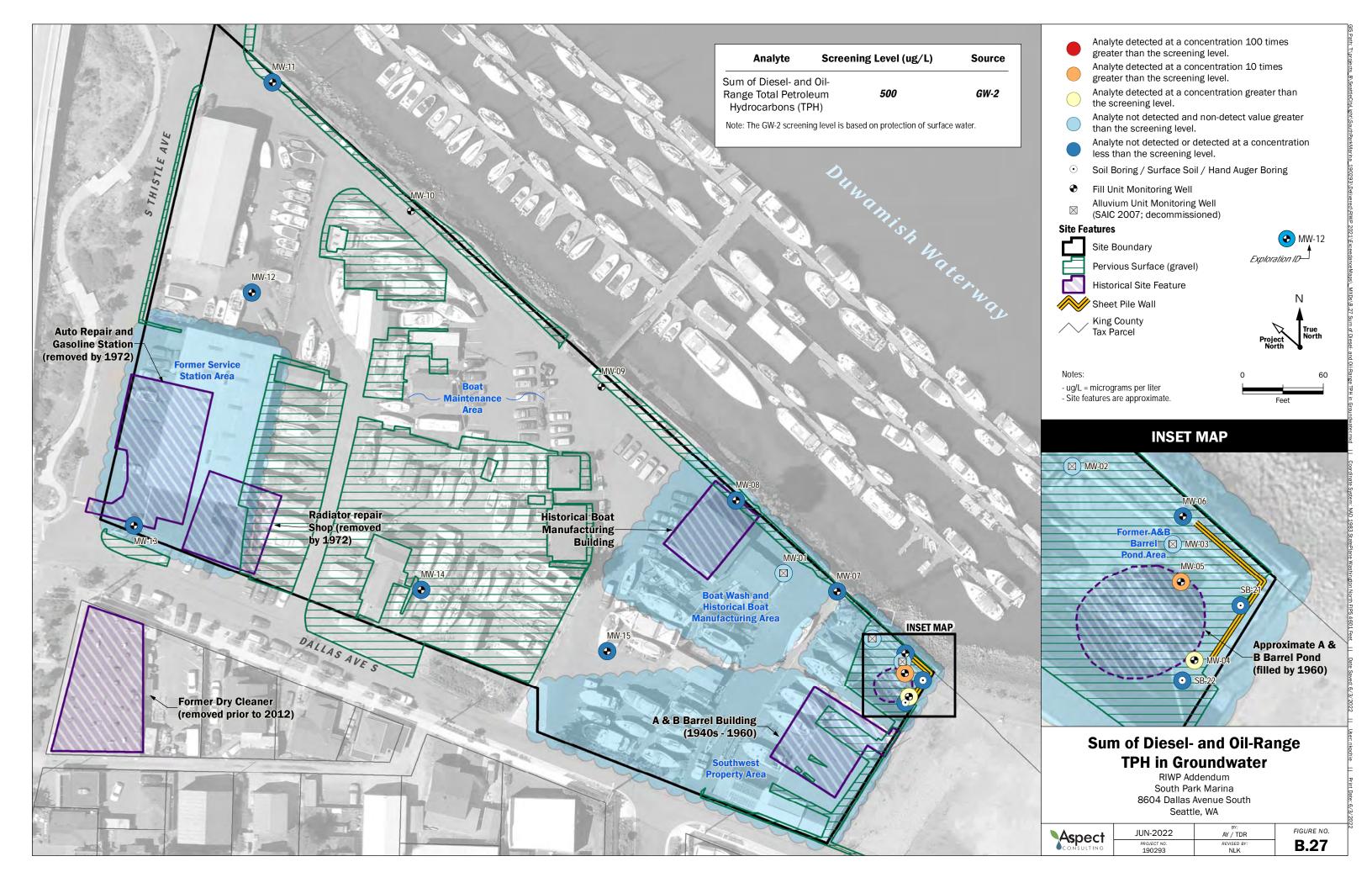












APPENDIX C

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C.1. Introduction

This Phase 2 Sampling and Analysis Plan (SAP)/Quality Assurance Project Plan (QAPP) has been prepared for the South Park Marina Property (SPM Property; Site) as Appendix C to the Remedial Investigation (RI) Work Plan Addendum (Work Plan Addendum) on behalf of the Potentially Liable Parties (PLP) Group, which consists of South Park Marina Limited Partnership (SPM), the Port of Seattle (Port), and the City of Seattle (City). This document meets the requirements of Agreed Order No. DE 16185 (the Agreed Order) between the Washington State Department of Ecology (Ecology) and the PLP Group.

The purpose of this SAP/QAPP is to ensure that field sample collection, handling, and laboratory analysis conducted during the Phase 2 RI data collection program will generate data to meet project-specific data needs defined in Section 7 of the Work Plan Addendum, in accordance with the Model Toxics Control Act (MTCA) requirements (Washington Administrative Code [WAC] 173-340-350). The SAP identifies the proposed number and location of environmental samples and defines field protocols for sample collection. The QAPP defines analytical laboratory methods and field and laboratory quality assurance (QA) protocols for the samples' chemical analysis. It is the responsibility of the Aspect Consulting, LLC (Aspect) personnel and subcontracted analytical laboratory and data validation personnel performing the RI sampling and analysis activities to adhere to the requirements of the SAP/QAPP.

The Phase 2 field scope includes further investigation (soil borings; monitoring well installation; and soil, groundwater, soil gas, and potentially indoor air sampling) to fill data gaps related to characterization of Site physical characteristics, including geology and hydrogeology; nature and extent of contamination in Site environmental media; and fate and transport of contaminants of potential concern (COPCs), including the potential migration of contaminants to potential receptors such as the Lower Duwamish Waterway (LDW). The following activities have been planned for Phase 2 site characterization:

- Advancement of 25 soil borings extending to depths between 15 and 40 feet below ground surface (bgs), and five hand auger borings extending to 3 feet bgs.
- Collection of discrete soil samples during subsurface explorations. Laboratory
 analysis of select soil samples for physical properties and chemicals identified as
 potential Site contaminants.
- Completion of 17 soil borings as permanent groundwater monitoring wells (7 wells screened in the Fill Unit, and 10 screened in the Alluvial Unit).
- Development and one round of sampling of the groundwater monitoring wells. Laboratory analysis of groundwater samples for potential Site contaminants.
- Installation of two sub-slab vapor pins inside the existing South Park Tire Shop, and collection and laboratory analysis of soil gas samples for Site COPCs detected in soil and groundwater that exceeded the MTCA screening levels for the protection of indoor air quality.

 Evaluation of contaminant migration pathways to the LDW including refining Fill Unit and Alluvial Unit groundwater flow characteristics.

C.2. Sampling and Analysis Plan

Field investigation and sampling procedures to be followed during Phase 2 RI data collection are described in the following sections. Specific sample locations and chemical analyses are summarized in Tables C.1 (soil and soil gas) and C.2 (groundwater). The rationale for the sampling program is described in Section 7 of the Work Plan Addendum. Figure C.1 depicts locations of the Phase 2 explorations to be completed. Explorations will be field-located with hand-held global positioning system (GPS) equipment using the survey coordinates of proposed explorations included in Tables C.1 and C.2. Explorations may be adjusted in the field based on the presence of utilities, structures, or other obstructions that may be encountered.

C.2.1. Pre-Sampling Activities

There are a number of field-related activities that must be accomplished prior to initiating the drilling and sample collection:

- Field locating borings and surveying drilling locations with a hand-held GPS unit.
- Obtain a street use permit from King County for proposed borings/wells in the rights-of-way (ROWs).
- Public and private utility locating on the SPM property and in the Dallas Ave and S. Thistle Street ROWs.
- Use a vactor truck to clear any drilling locations proposed using an air knife
 within 5 feet of utilities identified by the private and/or public utility locates to
 prevent striking potential utilities. A hand auger will be used to collect shallow
 samples prior to vac clearance of the borehole to avoid disturbing soil samples
 before collection for laboratory analysis.

All of these activities will be documented in field notes and photographs.

C.2.2. Soil Sampling

Soil sampling for the Phase 2 RI will be conducted using a combination of soil borings and hand auger sampling to address existing data gaps related to the nature and extent of soil contamination at the SPM Property. For the purposes of this investigation, surface soils are considered to be those collected between 0 and 1 foot bgs, where 0 feet ground surface is the top of soil below any paving, pavement gravel base course, or gravel surfacing. Subsurface soils are considered those collected deeper than 1 foot bgs. The specific soil sample locations and chemical analyses are provided in Table C.1, with further discussion provided in Sections 7.1 of the Work Plan Addendum. The planned depth intervals for soil samples at each location are provided in Table C.1.

The following subsections detail the procedures for completing subsurface soil borings and surface soil samples, and for soil sample collection, handling, identification, and sample quality assurance/quality control (QA/QC) applicable to both exploration types. Table C.3 presents a list of containers to be used for sample collection.

C.2.3. Hand Auger Soil Explorations

At the five locations (HA-3 to HA-7) shown on Figure C.1, explorations from 0- to 3-feet bgs will be completed using a hand auger. At each hand auger location, soil cuttings will be field screened continuously during hand auger advancement in accordance with the procedures outlined in Section C.2.4.2 below. Between the ground surface and 1 foot bgs, one discrete sample will be collected (excluding any paving, pavement base course, or gravel surfacing). One discrete sample will be collected from the 2- to 3-foot depth interval and archived.

Fill material in these locations may not be amenable to hand augering due to the presence of large gravels or sloughing of noncohesive soils. If refusal is met due to the presence of a subsurface obstruction, the location will be abandoned using bentonite chips, and up to two additional nearby locations will attempted for hand auger sampling. Likewise, if sloughing of the borehole prevents advancement of the hand auger borehole, up to two additional nearby locations will be attempted. All borings attempted via hand auger will be backfilled with hydrated bentonite chips and covered with up to 3 inches of surface soil.

C.2.4. Soil Borings

Aspect will subcontract with Holt Services, Inc. (Holt), a Washington-licensed resource protection well driller, to complete soil borings in accordance with requirements of Chapter 173-160 WAC. Soil borings will be advanced to depths ranging from 15 to 40 feet bgs using a combination of direct-push (i.e., Geoprobe) and sonic drilling. Sonic drilling methods will be used at locations where the Till Unit is expected to be encountered and locations where conductor casing methods will be used in order to prevent carry-down of contamination during drilling. Direct-push methods will be used at all other locations.

The drilling methodology for each boring is identified in Table C.1. If the direct-push drilling encounters refusal on subsurface conditions, the drillers will step out the boring a minimum of 3 feet and attempt to reach the target depth. If refusal is met at a location two times, and in Aspect's judgement could be advanced using a sonic drill rig, then drilling will be switched to sonic methods. If sonic drilling methods are utilized and refusal is still encountered, a maximum of two attempts will be made at each boring location.

Direct-push and sonic soil borings will be sampled on a continuous basis. Each boring will be advanced to collect samples at depth intervals specified in Table C.1 and as determined by field screening. Default depth intervals for laboratory analysis at each soil boring are shown on Table C.1 and will be adjusted based on field observations as noted in the table.

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¹ For the purposes of this investigation, ground surface is the top of soil below any paving, pavement gravel base course, or gravel surfacing.

The direct-push drilling method provides continuous soil cores, depending on soil recovery, returned within disposable 3-inch-diameter² plastic liners (4- or 5-foot lengths). The liners are sliced longitudinally and opened to access the soil core. If core recovery is less than 40 percent and results in insufficient soil volume for chemical analysis, an additional soil core will be advanced adjacent to the original boring.

If sonic drilling methods are employed, soil samples will be collected continuously in 5-foot intervals to the total depth of the exploration using a 3- to 4-inch diameter sampling core barrel inside an outer sonic drill casing. The sampling core barrel is driven by a high-frequency, vibrating sonic head, driven by hydraulic motors, in conjunction with rotational and downforce. The sampling core barrel is removed from the borehole after being driven, and vibration is used to remove the soil core from the barrel where it is placed into a plastic bag the length of the core, resulting in a relatively undisturbed soil core for sampling.

Each soil boring not completed as a monitoring well will be decommissioned by pressurized grouting or hydrated bentonite chips, in accordance with requirements of Chapter 173-160 WAC. Borings in the alluvial aquifer will be decommissioned by pressurized grout, while shallow borings in the fill will be decommissioned using hydrated bentonite chips. Decommissioning notes will be documented on boring logs, which will be included in the RI. For borings to be completed as groundwater monitoring wells, the installation procedure is described in Section C.2.5.

At boring locations where field screening indicates the potential for heavy contamination in the Fill Unit, a conductor casing will be seated into the Tidal Flat Unit (the aquitard layer below the Fill Unit) to minimize the potential for carry-down into the Alluvial Unit. The procedures for field screening potential contamination are outlined in Section C.2.4.2.2, and procedures for conductor casing methods are further outlined in Section C.2.4.1.

C.2.4.1. Drilling in Areas with Potential for Carry-Down of Contamination

Drilling for borings SB-42, MW-04D, MW-05D, MW-06D, MW-16, and MW-16D, located adjacent to or near the former A&B Barrel Pond (Figure C.1), will be conducted using sonic conductor casing methods to minimize potential for carry-down of contaminants. In addition, for borings in other areas of the Site that target sampling depths below the Tidal Flat Unit (such as MW-13D), if field screening indicates heavy contamination in the fill during drilling, conductor casing methods will be used to complete the remainder of the boring or well. If a direct-push boring is started, and evidence of heavy contamination is noted in or above the Tidal Flat Unit, the boring may be completed using direct-push drilling if a dual tube drilling system is used in which the

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² Typically, 2.25-inch outer-diameter tooling is used for direct push, which uses 1.5-inch inner diameter plastic liners for collecting soil cores. During the Phase 1 RI fieldwork, the volume of soil from these 1.5-inch cores was insufficient to fill all the containers requested by the analytical laboratory. Therefore, 3.75-inch outer-diameter tooling was used with 3-inch inner-diameter liners to increase soil volume for chemical analysis.

outer core barrel remains in place while extracting soil cores, similar to the conductor casing methods outlined for sonic drilling.

In the vicinity of the former A&B Barrel Pond, the Tidal Flat Unit is present at approximately 10 feet bgs. Therefore, sampling starting at 8 feet bgs will proceed in 2-foot intervals until the top of the Tidal Flat Unit has been identified. Then, a conductor casing will be advanced into the Tidal Flat Unit and a layer of bentonite will be placed in the bottom of the casing, prior to advancing the drill through the seal into the underlying Alluvial Unit.

C.2.4.2. Logging, Field Screening, and Soil Sample Collection C.2.4.2.1. Logging and Soil Descriptions

A qualified individual with field logging experience, under the direction of a Licensed Geologist (LG), will oversee the drilling activities, conduct all soil sampling, and prepare a geologic log for each of the explorations completed. For the purposes of this SAP/QAPP, a qualified individual for soil logging is defined as an LG, licensed engineer (PE), or a geologist- or engineer-in training (GIT/EIT) under the direction of an LG. The qualified individual will visually classify the soils in accordance with ASTM International (ASTM) Method D2488 and record soil descriptions, amount of soil recovery, field screening results, and other relevant details (e.g., staining, debris, odors, etc.) on the boring log form (Attachment C.1). If samples are collected for chemical

analysis, the sample ID and depth will also be recorded on the log.

C.2.4.2.2. Field Screening

The qualified individual will conduct field screening of soil samples that includes a visual examination to note sheens and staining, olfactory observations, volatile organic vapor screening, and water sheen testing, as described below. Field screening observations will be documented on the boring log form.

Chemical odors and their relative magnitude will be noted qualitatively using the descriptions "slight, moderate, and strong." Odors may be qualitatively described if they possess a distinct scent (e.g., "petroleum-like").

Volatile organic vapor screening of soil cores from borings will be conducted at multiple depths using a 10.6 electron volt photoionization detector (PID) to monitor for the presence of volatile organic compounds (VOCs). A minimum of one PID reading will be recorded in the vadose zone and for each soil type within each soil core. Additional readings will be recorded where elevated PID readings (i.e., greater than 5 parts per million [ppm] above background³) are noted. Soil removed during hand auger advancement will also be screened using the PID as noted above. For the purposes of field screening, the following limits are set for determining elevated PID readings:

 Greater than 5 ppm above background – Additional readings will be collected from within the same area of the soil core to ensure that a representative sample was screened.

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³ Background concentrations are those measured in ambient air, away from the soil core, typically 0-1 ppm.

• Greater than 15 ppm above background – These concentrations could indicate potential contamination. Additional soil samples will be collected and analyzed for potential Site contaminants. Additionally, if these readings are observed in the Fill Unit, care will be taken to set a conductor casing in the Tidal Flat Unit as detailed in Section C.2.4.1.

Soil samples will be field-screened for presence of petroleum using a sheen test: placing a small aliquot of soil into a clean, disposable container, or black-plastic gold pan that is filled with water, observe the water surface for signs of sheen, and gently agitate the soil and record observations. Care will be taken to differentiate sheen created by petroleum (i.e., iridescent swirl of colors, coalesces after being disturbed) versus other organic matter (i.e., angular "waxy" sheets that do not coalesce after being disturbed), and recording the information appropriately. The relative magnitude of sheens will be logged during field screening using the following qualifiers:

- Slight only light colors; irregular spread; does not cover entire water surface
- Moderate some colors; covers majority of water surface
- Heavy pronounced colors, rapid spread, covers entire water surface

C.2.4.2.3. Sample Collection

A minimum of three soil samples will be collected from each boring. At a minimum, one soil sample will be archived from each 5-foot interval, except for intervals that were previously sampled in collocated borings. As shown in Table C.1, some samples will be submitted for chemical analysis, and some will be archived in case additional analysis is warranted. Analyses with a shorter hold time (i.e., 14 days or less) will be analyzed on a fast turnaround time in order to receive results in time to request archive analysis within hold time, if deemed necessary. Archive samples may be released for laboratory analysis if laboratory analysis of other samples at that or nearby explorations detect compounds above the reporting limits exceeding screening levels. Conditions triggering archive analysis are described in Section 9.1.3.1 of the Remedial Investigation Work Plan. Generally, the planned sample depths are based on previous nearby analytical results or lack of data, as well as the location of each boring relative to the historical and current uses of the SPM Property and the objective of the investigation in that area.

The planned interval for sample collection and analysis in each boring is shown in Table C.1. However, if borings contain field indications of contamination, intervals may be adjusted up or down, additional samples may be collected and/or additional analyses may be run as indicated in the table. If collocated borings show substantial differences in lithology or field indicators of contamination, additional samples may also be collected.

All soil samples to be submitted for gasoline-range total petroleum hydrocarbons (TPH) and VOC analyses will be collected in accordance with U.S. Environmental Protection Agency (EPA) Method 5035A. The soil aliquot for gasoline-range total petroleum hydrocarbons (TPH) and VOC analyses will be collected from the undisturbed soil sample core using a laboratory-supplied modified disposable plastic syringe as required by EPA Method 5035A and placed in pre-weighed laboratory-supplied vials. For logistical purposes due to the EPA 5035 method, sample volume for gasoline-range TPH and VOCs will be collected first in every investigation area.

For all other analyses, the soil samples will be removed from the sampler using a clean, stainless-steel spoon and placed into certified-clean jars supplied by the analytical laboratory. Gravel-sized material greater than approximately 0.5 inch will be removed from the sample.

Table C.1 lists the chemical analyses for each soil sample to be collected during the Phase 2 RI. QC soil samples (e.g., trip blanks) will be collected at the respective frequencies prescribed in Section C.3.6. If for a specific drill interval, sample recovery is poor, insufficient volume may be present to collect enough material for all of the planned analyses. The analytical laboratory has indicated 24 ounces⁴ will provide sufficient volume for all planned analyses. If there is insufficient volume to fill at least 24 ounces of sample jars, no samples will be collected, and the boring will be redrilled using the redrilling procedure as described for refusal outlined in Section C.2.4 above. Soil sample volume from the original boring will be retained until all required samples have been collected from the redrilled boring. If sufficient volume cannot be obtained from the redrilled boring, soil from the original boring will be used to ensure that all analyses will be completed.

C.2.5. Catch Basin Solids Sampling

One catch basin solids sample will be collected from each of three catch basins: CB-2, CB-6, and SWRX-Pre (the pump vault downstream from CB-9). These sampling locations were selected to represent different property subbasins and potential contributions to the two active property outfalls to the river (UOF-1 and SPM Outfall).

Prior to collecting catch basin solids samples, Aspect staff will coordinate with SPM operations to adapt to their maintenance and cleaning schedule to attempt to ensure sufficient volume. .Each catch basin solids sample will be collected and handled in accordance with the procedures described below using equipment decontaminated between each sample location:

- Solids samples will be collected from material accumulated in the sump and/or pipes at each catch basin. A telescoping extension pole with a stainless-steel cup attachment will be utilized for scooping solids material. Solids materials will be collected by hand using stainless steel spoons and scoops. Sample material from each station will be placed into a stainless-steel bowl for sampling.
- Particles and organic debris larger than approximately 0.5-inch will be noted in field documentation and then removed from the material before sampling. In addition, the sample color, odor, texture, VOC content and presence of sheen will be noted based on visual, olfactory, PID readings, and tactile observations.

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⁴ A minimum volume of three 8 oz jars (one for each lab) and a 5035 kit (4 vials) is required for the soil samples that are analyzed for all constituents.

• Solids material will then be homogenized in the bowl using a decontaminated stainless-steel spoon and placed into certified-clean jars supplied by the analytical laboratory.

Catch basin solids samples will be analyzed for the chemical analyses summarized in Table C.1. Due to the catch basins' small size and periodic cleaning, there is a possibility that insufficient sample material will be present to analyze for all proposed analyte groups. In case of insufficient sample volume to analyze for all constituents, the analyte list will be prioritized as listed in Table E.6 of the RI Work Plan, with instructions documented on the chain of custody form. The rationale for prioritization was developed based on knowledge of the historical and current uses of the property with emphasis on the known key contaminants that potentially may contribute to contaminant loading in the LDW via stormwater discharge.

C.2.6. Monitoring Well Installation and Development

C.2.6.1. Monitoring Well Installation

Monitoring wells will be constructed by Holt in accordance with Chapter 173-160 WAC. A qualified individual with field experience will oversee and document installation of each monitoring well, under the direction of a Licensed Geologist in Washington State. Documentation will include completion of an As-Built Well Completion Diagram and construction details.

As described in Section C.2.1, soil samples will be logged continuously from the ground surface to the maximum depth of each boring. During soil logging, the following intervals of interest will be carefully noted:

- The apparent depth to water (if present) in the Fill Unit
- The depths to the top and the bottom of the Tidal Flat Unit
- The apparent depth to water in the Alluvial Unit

A soil sample representative of the screen interval will be collected, if enough material is available, and archived for potential future grain size analysis, if needed. New monitoring wells will be constructed with 2-inch-diameter threaded Schedule 40 PVC slotted screen and blank casing. If field conditions prevent driving larger-diameter casing to install the 2-inch casing, ¾-inch well screens may be used. Well screens will be 5-foot-long 0.010-inch (10 slot) slotted screen with an artificial filter pack consisting of 20/40 silica sand. The following steps will determine the exact screen interval:

- Fill Unit monitoring wells (MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, and MW-22):
 - o If the Tidal Flat Unit is encountered, the 5-foot screen will be placed in the Fill Unit directly on top of the Tidal Flat Unit.
 - o If the Tidal Flat Unit is not encountered, and the Fill unit is saturated, the top of the screen will be placed just below the water table at the time of

drilling⁵. If the Fill Unit is not saturated, the screen will be placed in the Fill Unit directly on top of the Alluvial Unit (as typified by a sand with only trace amount of fines).

- Alluvial Unit monitoring wells (MW-04D, MW-05D, MW-06D, MW-08D, MW-09D, MW-11D, MW-13D, MW-16D, MW-18D, and MW-19D):
 - o If the Tidal Flat Unit is encountered and the Alluvial Unit is saturated, the 5-foot screen will be placed a minimum of 2 feet below the bottom of the Tidal Flat Unit to ensure the bentonite annular seal separates the well screen's filter pack from the shallower water bearing zone in the Fill Unit.
 - o If the Tidal Flat Unit is not encountered, the 5-foot screen will be placed at a similar elevation to other nearby Alluvial Unit monitoring wells to characterize groundwater quality within the same water bearing zone. For paired Fill-Alluvial monitoring wells, if the Tidal Flat Unit is not encountered, and a monitoring well is installed in the Fill Unit, the Alluvial Unit monitoring well will be screened in a distinctly different vertical interval from the Fill Unit monitoring well with a minimum vertical separation of three feet between the bottom of the Fill Unit monitoring well screen and the top of the Alluvial Unit monitoring well screen.
 - o If there is an unsaturated zone in the Alluvial Unit greater than 5 feet thick, the top of the screen will be placed approximately 2 feet above the water table to allow for seasonal and/or tidal fluctuations. SAIC (2008a) performed a short-term tidal study in historical Alluvial Unit monitoring wells MW-01 through MW-03. The short-term tidal study was only conducted over a few hours, but groundwater elevations in the Alluvial Unit fluctuated by 2.5 to 4 feet depending on the distance from the LDW shoreline; over the tidal study monitoring period, the LDW surface water elevation fluctuated by approximately 12 feet. The tidal study was performed during a rising tide, and fluctuations of groundwater elevations in the Alluvial Unit during a full tide cycle may be much larger. Well screen placement will consider the tidal stage at the time of drilling.
- The approximate well screen interval anticipated for each location based on Phase 1 explorations is shown in Table C.2. If subsurface conditions are significantly different than expected, the well screen will be adjusted to an interval deemed appropriate by the project hydrogeologist that meets the data needs outlined in Section 7 of the Work Plan Addendum.

An annular seal consisting of bentonite chips will be placed above the filter pack. A concrete surface seal will be set at grade for each new monitoring well. The finished monitoring wells will be protected with steel flush-mount monument (truck rated), embedded in the concrete surface seal. The top of the monitoring well casing will be

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⁵ If there are field screening indications of gross petroleum contamination, the top of the screen will be placed 1.5 feet above the water table at the time of drilling and 3.5 feet below to allow for seasonal fluctuations.

marked (through either a notch or other permanent mark) to indicate the location from which depth-to-water measurements will be collected and for surveying top of casing elevation.

C.2.6.2. Monitoring Well Development

Following installation, each new monitoring well will be developed to remove fine-grained material from inside the well casing and filter pack to the extent practical, and to improve hydraulic communication between the well screen and the surrounding water-bearing formation. Well development will be performed by means of a surge block and a 12-volt submersible pump. During development, the surge block will be gently surged through the entire length of the well screen. Each well will be developed until visual turbidity is reduced to minimal levels (below 10 nephelometric turbidity units [NTU] if practical) or until a maximum of 15 casing volumes of water has been removed. Well development will be recorded on the forms included in Attachment C.1.

C.2.7. Communication Plan

As discussed in Section 7 of the Work Plan Addendum, additional explorations may be needed during the Phase 2 investigation fieldwork beyond those shown on Figure C.1. The need for and scope of additional investigations will be based on field conditions observed during sampling and best professional judgment. Step-out borings will be advanced if clear evidence of contamination (strong odors, very heavy sheens or product) is observed in the field at a boring that is not horizontally bounded.⁶ If a step-out boring is performed, Ecology will be notified at the end of the day via email or phone call.

Archive soil samples at additional depth intervals may be collected, beyond those outlined in Table C.1, based on field observations and best professional judgement. Archive samples will be analyzed in accordance with the Work Plan Addendum and this SAP.

Any deviations from the Work Plan Addendum will be documented in the RI Report.

C.2.8. Groundwater Sampling Procedures

Prior to sampling, a down-hole Van Essen Instruments, CTD-Diver® data-logger capable of measuring pressure, temperature, and conductivity will be installed in all Site monitoring wells and a stilling well will be installed in the LDW offshore of the SPM Property. Measurements will be recorded at 5-minute intervals for a minimum of 72 hours to determine the effects of tidal influence on groundwater conductivity (surrogate for salinity) and to determine flow and gradient characteristics in the Fill and Alluvial Units at the SPM Property. The data collected by the data loggers will be used to calculate the optimal window for collecting groundwater samples when conductivity and/or water level measurements indicate lesser tidal influence. The lowest conductivity

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⁶ To facilitate rapid follow up, potential step-out boring locations from proposed Phase 2 borings will be identified prior to conducting utility clearances for the field program.

and water level measurements at each well will be correlated with the low tide recorded at the National Oceanographic and Atmospheric Administration's (NOAA) station number 9447130, which is located in Elliott Bay and measures actual tide fluctuations. To facilitate the groundwater sampling field program, samples may be collected during either the period of lesser tidal influence during either the lower-low tide or the higher-low tide portion of each daily tide cycle.

Based on the Phase 1 groundwater sampling event, it expected that monitoring wells along the shoreline (and particularly those wells in the Fill Unit) will go dry during lower-low tide cycles. The sampling window for each well will be established based on the data collected during the tidal study and the following criteria:

- For monitoring wells that are not tidally influenced or only minimally influenced (i.e., less than 0.5 foot of water level variation over a tide cycle), sampling may be conducted at any time.
- For monitoring wells that are tidally influenced but do not go dry during lower tide cycles, the average lag time between the tidal minimums observed at the NOAA gauge and the conductivity and water level minimums in each well will be used to determine the optimal timing of future groundwater sampling events. Each well will have a specific lag time relative to low tide and low conductivity/groundwater elevations. Groundwater sampling will be conducted within a 3-hour window bracketing this specific lag time for each well.
- For monitoring wells that are tidally influenced and do go dry during lower tide cycles, the groundwater sampling windows during Phase 1 were adjusted to be 1.5 hours before the predicted time for the groundwater elevation to reach the bottom of each screen and for the well to go dry. This modification to the sampling window was previewed to and approved by Ecology during the monthly Ecology-PLP meeting on April 8, 2021. However, insufficient volume was still present in some of these wells for all identified laboratory analyses. Therefore, for Phase 2, the conductivity and water level measurements collected by the dataloggers will be used to determine when adequate groundwater may be present within the well screen to collect sufficient sample volume for all analyses. For select monitoring wells, particularly shoreline monitoring wells MW-08, MW-09, and MW-10, the sampling window may need to be adjusted to start as water begins to infiltrate the well screen during a rising tide. If insufficient volume is available for all identified laboratory analyses, additional volume will be collected from the monitoring well during high tides on subsequent days.

Groundwater samples will be collected from monitoring wells and analyzed as summarized in Table C.2. Table C.3 presents a list of containers to be used for sample collection. Groundwater samples will be collected and handled in accordance with the procedures described below:

Groundwater sampling at any new or recently developed monitoring wells will
occur 1 week after development to allow for equilibration and settling of any
suspended solids that may remain inside the well casing.

- Groundwater samples from wells located within 100 feet of the LDW shoreline will be sampled during low-tide during the 3-hour window bracketing the lowest conductivity measured during the conductivity analysis.
- The locking well cap will be removed, and the well will be allowed to equilibrate with atmospheric pressure for at least 15 minutes. Once equilibrated, the depth-to-groundwater will be measured from the surveyed location (marked on the casing with a "V" notch or black mark) to the nearest 0.01 foot using an electronic water level measuring device. If there are indications of light non-aqueous phase liquid (NAPL) during the drilling of the wells, an oil-water interface probe will be used to measure water levels and evaluate the presence of separate-phase product. If separate-phase product is present, the monitoring wells will still be sampled to determine the composition of the NAPL.
- Each monitoring well will be purged at a low-flow rate using a peristaltic pump and new, clean tubing. The dedicated tubing will consist of polyethylene tubing down well with a short length of silicon tubing through the pump head. The tubing intake will be placed just below the center of the saturated section of well screen.
- VOC loss will be minimized by regulating flowrate to prevent the entrainment of air bubbles in the tubing. The flowrate will be adjusted to minimize drawdown; however, a minimum purge flowrate of 100 milliliters per minute (mL/min) will be maintained throughout purging and sampling.
- During well purging, field parameters (temperature, pH, specific electrical conductance, dissolved oxygen [DO], and oxygen reduction potential [ORP]) will be monitored using a YSI meter and flow-through cell, or equivalent. Additionally, turbidity will be recorded using a turbidimeter and the depth-to-water will be recorded during purging. These field parameters and depth-to-water will be recorded at 2- to 5-minute intervals on the groundwater sampling form (Attachment C.1) throughout well purging until they stabilize. Stabilization is defined as three successive readings where:
 - The water level is stable, in accordance with EPA's low-flow groundwater guidance (i.e., water level drawdown is less than 0.33 foot below the initial water level reading),
 - o Temperature varies by less than 0.1 degree Celsius,
 - o Specific conductance varies by less than 3 percent
 - Dissolved oxygen varies by less than 10 percent (or 0.5 milligrams per liter [mg/L] if the readings are below 1 mg/L)
 - o pH varies by less than 0.1
 - o ORP varies by less than 10 mV
 - o Turbidity varies by less than 10 percent (or if three consecutive readings are less than 10 NTU)

- o However, no more than three well casing volumes will be purged prior to groundwater sample collection.
- Samples with a field-measured specific electrical conductance greater than 1,000 microsiemens per centimeter (μS/cm) or turbidity greater than 25 NTU will be denoted as such on the chain-of-custody (COC) form, so that the laboratory can employ appropriate sample preparation techniques to avoid analytical interferences for specific analyses (refer to Section C.3.3.2).
- If the monitoring well is completely dewatered during purging, samples will be collected when sufficient recharge has occurred to allow filling of all sample containers, or when recharge has reached its maximum for a tidally influenced monitoring well. If insufficient volume is available for all identified laboratory analyses, similar to the situation encountered during Phase 1 groundwater sampling at MW-9 and MW-10, additional volume will be collected from the monitoring well during high tides on subsequent days. Low-flow purging will not be conducted prior to sample collection on subsequent days, for wells that produce insufficient volume.
- Once purging is complete, the groundwater samples will be collected using the same low-flow rate from the dedicated tubing upstream of the flow-through cell to avoid potential cross-contamination and directly into laboratory-supplied sample containers for analysis of parameters presented in Table C.2.
- Samples for dissolved metals analysis will be field filtered using a 0.45-micron filter attached to the discharge end of the dedicated tubing. All other analytes will be unfiltered.
- If the monitoring well is completely dewatered during purging or drawdown is significant even with a 100 mL/min purge rate, the well will be dewatered and samples will be collected when sufficient recharge has occurred to allow all sample containers to be filled. In accordance with standard groundwater sampling standard of care, bottles for volatile analytes (e.g., gasoline-range TPH and VOCs) will be collected first.
- QC groundwater samples (e.g., field duplicates, and trip blanks) will be collected at the respective frequencies prescribed in Section C.3.6.1.
- After sample collection is complete, the depth to the bottom of the monitoring
 well will also be measured to evaluate siltation of the monitoring well. If there are
 indications of dense NAPL during drilling, an oil-water interface probe will be
 used to gauge siltation and whether separate-phase product is present at the
 bottom of the monitoring well.
- Following sampling, the well cap and monument cap will be secured. Damaged
 or defective well caps or monuments will be noted and scheduled for
 replacement, if necessary.

C.2.9. Stormwater Sampling Procedures

Stormwater samples will be collected from SPM drainage structures, including catch basins and the pre-and post-StormwateRxTM treatment system. All samples will be analyzed as summarized in Table C.2. Table C.3 presents a list of containers to be used for sample collection. Stormwater samples will be collected and handled in accordance with the procedures described below:

- Sampling events will be targeted during periods with weather forecasts that predict at least 0.2 inches of rainfall over a minimum of 3 hours and less than 2 inches over a period of 24 hours⁷. In addition, sampling will occur after a 24-hour antecedent dry period (less than 0.1 inch of rainfall) prior to the onset of precipitation.
 - o Forecasts from the National Weather Service will be used to track and document weather forecast data leading up to sampling events.
 - O Precipitation data will be obtained from the on-Property rain gauge installed and maintained by TIG Environmental.
- Tidal fluctuations in the LDW will not affect stormwater sampling since sampling locations will be from catch basins and other structures on the SPM Property that are above high tide elevation.
- Stormwater samples will be collected as discrete grab samples using a peristaltic pump or an extension pole with a clean sample container attached. Laboratory bottles will be filled directly as much as possible. For samples that require adding a field preservative or need to not have headspace left in the bottle, a clean HPDE or glass container will be used to collect the sample, which will be then be transferred to the laboratory container with preservative in the field.
 - Sampling at catch basins will be done after removing CB lids/grates, filter fabric, and/or strainer baskets, which will be replaced each time after sampling. Stormwater samples will be collected from standing water within each catch basin.
 - O Insufficient flow on the boat ramp was observed during Phase 1 for sampling; therefore, this location will not be sampled in Phase 2.
- In conjunction with the stormwater samples, field measurements will be made of pH, specific conductivity, temperature, turbidity, DO concentration and ORP, using a calibrated water quality sonde and turbidimeter at each sampling location during each sampling event. These measurements will be made from an aliquot of sample water collected into a decontaminated sample cup, jar, or bowl, or with a flow-through cell if using a peristaltic pump.

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⁷ The purpose of this maximum criteria is to ensure that the collected sample represents the entire storm hydrograph and to avoid sampling during less frequent high-precipitation storms that would significantly dilute the presence of any contaminants. This value represents the 2-year, 24-hour rain event for Seattle as calculated using NOAA's Precipitation Frequency Estimate tool.

- Visual observations will also be noted at the sampling locations during sampling events, including for the presence of floatable materials, visible sheen, discoloration, turbidity, settled solids (if any), and odor.
- Field notes will be collected during each sampling event with the date, time, site
 and general runoff conditions, water quality field measurements, and other
 observations.
- QC stormwater samples will be collected at the respective frequencies prescribed in Section C.3.6.1.

Stormwater samples will be analyzed for the chemical analyses summarized in Table C.2. Due to the unpredictability of stormwater runoff, even while targeting storm events, there is a possibility that insufficient water will be present to analyze for all proposed analyte groups. In case of insufficient sample volume to analyze for all constituents, the analyte list will be prioritized as shown in Table E.6 of the RI Work Plan with instructions documented on the chain of custody form. The rationale for prioritization was developed based on knowledge of the historical and current uses of the property with emphasis on the known key contaminants that potentially may contribute to contaminant loading in the LDW via stormwater discharge.

C.2.10. Soil Gas and Indoor Air Sampling Procedures

Based on the lateral and vertical distribution of soil and groundwater impacts at the Site, the Tire Factory Shop is located within prescribed screening distances for further assessing the potential for vapor intrusion (Ecology, 2022). Ecology guidance indicates that the next step is to use a Tier I or Tier II assessment approach (i.e., subslab soil gas or indoor air sampling) to further assess the potential for vapor intrusion (Ecology, 2022). A Tier I assessment will be conducted to evaluate the potential for vapor intrusion from soil gas due to subsurface sources. Additional Tier I assessments may be conducted at other SPM Property buildings if Phase 2 analytical data shows a potential for vapor intrusion at those locations.

C.2.10.1. Subslab Soil Gas Sampling

Two soil gas samples will be obtained from beneath the concrete slab of the Tire Factory Shop building, or to the west of the building, using temporary soil gas vapor pins. Prior to drilling, a search for publicly available data sets for utility information will also be conducted (and public and private utility locates will have been conducted as part of the soil boring mobilization). Utility information will be documented and overlain on a site map to evaluate the potential for preferential vapor migration pathways at the Site. The temporary soil gas vapor pins will be installed through the slab using a rotary hammer drill. The vapor pins will be set a minimum of 5 feet away from the slab edge to avoid any potential dilution from ambient air at the concrete/asphalt interface.

Prior to soil gas sampling, the weather forecast will be monitored in an effort to synchronize sampling with a period of declining or low barometric pressure and without precipitation. However, it is recognized that this may not be possible given all the logistical considerations for the field effort. Regardless, barometric pressures will be monitored and recorded during sampling. Following installation of the soil gas sampling

points, the barometric pressure will be recorded and noted to be rising or falling at the time of sampling collection. Additionally, a cross-slab differential pressure measurement will be collected using a digital micro-manometer. The ventilation system for the building will also be observed to determine whether it is likely to have an influence on cross-slab pressure differential. Barometric and cross-slab pressures at the time of sampling will be used to inform conservativeness of the sampling results.

Soil gas samples will be collected using laboratory-supplied, evacuated, 1-L SUMMA canisters with flow controllers set to a flow rate of less than 150 mL/min in accordance with the following procedures:

- The sampling train and SUMMA canister will be leak-tested prior to sampling using a shut-in test to verify there are no leaks in the fittings or connections between the leak-testing shroud and the sample media.
- The vapor pin or gas probe monument will be enclosed in a leak-testing shroud and a known concentration (between 50 and 100 percent) of tracer gas (helium) will be added to the shroud. The selected concentration of tracer gas will be maintained and monitored for the duration of sampling.
- Prior to sample collection, the sampling train will be purged at a rate of 200 mL/minute using a peristaltic pump (or equivalent), taking care that the entire sampling train volume has been purged to ensure the sample is representative of subsurface conditions. Purged soil gas will be collected in Tedlar® bags and field-screened to ensure leakage is less than 5 percent of the shroud concentration. During purging, concentrations of carbon dioxide, oxygen, and methane will be field-measured prior to sample collection.
- After confirming there is no significant leakage in the sampling train or around the vapor point, a soil gas sample will be collected by opening the valve on the SUMMA canister. Sampling will be complete when the vacuum gauge on the canister reaches -5 inches of mercury. Notes regarding the usage of each building, including windows, doorways, and HVAC, will be recorded during sampling.
- A final vacuum of -5 inches of mercury will be maintained in SUMMA canister and submitted to the laboratory for verification that the SUMMA canister did not leak in transit.

Upon completion of soil gas sampling, the SUMMA canisters will be packed in their original shipping containers and maintained under chain-of-custody procedures until they are delivered to the laboratory.

After completion of sampling, the temporary soil gas sampling points will be extracted, and the holes will be patched with concrete.

C.2.10.2. Soil Gas Sampling

Based on the Phase 2 soil and groundwater analytical results, additional buildings at the SPM Property may require a Tier I vapor intrusion assessment. The construction characteristics of these buildings has not been evaluated; therefore, detailed procedures cannot be produced at this time. If the buildings are constructed as slab-on-grade, soil gas sampling will be conducted via vapor pins as described above. If the buildings are not

constructed as slab-on-grade (i.e., contain a crawlspace), soil gas sampling may be conducted adjacent to the buildings using soil gas probes.

For soil gas probe installation, borings will be advanced using direct-push techniques, and surface completions will be traffic-rated 8-inch-diameter flush monuments. Screen bottom depths will be approximately 5 feet bgs. Typical soil gas probe construction includes a 6-inch-long by 0.5-inch-outer-diameter stainless-steel slotted screen and 0.25-inch-outer-diameter Teflon tubing. The screen filter pack will be silica sand or glass beads with an appropriate bentonite seal and concrete to grade.

C.2.10.3. Indoor and Ambient Air Sampling

If soil gas samples exceed the MTCA Method B screening levels for subslab soil gas. adjusted to a commercial exposure scenario⁸, indoor air sampling may be conducted. Prior to indoor air sampling, a Site visit will be conducted to evaluate the Tire Factory Shop. The purpose of the evaluation is to identify building construction characteristics, heating and ventilation systems, and background sources of possible chemical contaminants that may influence the results of indoor sampling. Potential sources of VOCs will be identified in the building by visual observation and by using a photoionization detector (PID), or similar air-monitoring device, to screen the building. As discussed in Ecology's guidance (2022), Ecology does not recommend conducting indoor air sampling as part of the VI evaluation when the chemicals used as part of the building operations are the same substances found in soil gas beneath the building. Therefore, indoor air sampling may not be conducted if the evaluation indicates that the chemicals exceeding screening levels in soil gas are routinely used by the business and represent a larger impact to indoor air quality than vapor intrusion. The site reconnaissance will be completed at least 48 hours prior to indoor air sampling to ensure that possible sources of cross-contamination are removed and/or documented to the extent practical.

Indoor and ambient air sampling will consist of collecting indoor air samples in the same locations where subslab soil gas samples were collected and up to two ambient background air samples. The exact number and locations of samples will be chosen based on the observations during the site reconnaissance.

Time-integrated 24-hour samples will be collected over the course of a day. Air samples will be collected using 6-L canisters prepared under negative pressure and lab-certified clean for VOCs. The canisters will be equipped with dedicated flow regulators set at a fill rate set for an approximate 24-hour sampling event.

The pressure in the canister prior to commencement of the sampling event will be noted, as will the time the canister is opened. During the sampling period, the pressure in the canister will be monitored to ensure that the flow regulator is functioning properly. The final pressure at the end of sampling should be -5 to -6 inches of mercury. Once the canister has reached this point, sampling is complete, and the final pressure is recorded.

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⁸ If Phase 2 groundwater or soil data indicates the potential for vapor intrusion into one of the residential buildings, subslab soil gas sampling will be conducted at those locations and the analytical results will be compared to the MTCA Method B subslab soil gas screening levels for unrestricted use.

Sample collection will be considered complete after 24 hours if the pressure in the canister is less than -10 inches of mercury.

Ambient background air samples will be obtained concurrently with the indoor air sampling. An outdoor air sample will be collected using the same procedures as the indoor air samples, using 6-L canisters prepared under negative pressure and lab-certified clean for VOCs. The canister will be placed upwind of the building and/or at the intake to the HVAC system, dependent on results of the site reconnaissance.

If the site reconnaissance identifies potential sources of background contamination to indoor air that cannot be removed from the building, then additional background indoor air samples may be collected. The background air sample will be collocated with the potential background source and collected concurrently with the other ambient air and indoor air samples, using a 6-L canister as described above.

As recommended by Ecology's guidance (2022), subslab soil gas sampling will be conducted immediately following the collection of indoor and ambient air samples so that temporal variability and the potential for cross-slab vapor intrusion can be evaluated.

C.2.10.4. Soil Gas and Air Sample Analysis and Evaluation

Soil gas and air samples will be transferred under appropriate chain-of-custody documentation to the analytical laboratory, Friedman and Bruya, Inc. in Seattle, Washington. Samples will be analyzed using Massachusetts Department of Environmental Protection (MDEP) Method for Air Phase Hydrocarbons (APHs) and EPA Method TO-15 for VOCs. Soil gas samples will also be analyzed for helium using ASTM D1946. If possible, low-level analysis or Selective Ion Mode (SIM) analysis will be used to obtain the lowest achievable detection and reporting limits.

Analytical results from air and soil gas sampling will be compared against applicable MTCA Method B cleanup and screening levels for commercial use⁸. Data analysis may include the use of predictive modeling to evaluate potential contributions from soil gas to indoor air as an additional line of evidence in accordance with Ecology's guidance (2022). Helium results for soil gas samples will also be evaluated to ensure no significant dilution from ambient air occurred during the sampling.

C.2.11. Sample Nomenclature and Labeling

Sample nomenclature for each type of sample to be collected during the Phase 2 RI data collection program is described below. The symbology used for the different types of samples to be collected in Phase 2 will include:

- SB = soil boring
- HA = hand auger
- MW = monitoring well (for groundwater)
- SG = subslab soil vapor pin
- GP = gas probe
- CB = catch basin

- SW = stormwater
- IA = indoor air
- AA = ambient air
- BA = background air
- TB = trip blank
- EB = equipment blank

C.2.11.1. Soil Samples from Borings, Monitoring Wells, and Hand Auger Locations

Each soil sample collected from a boring for chemical analysis will be assigned a unique sample identification number, including the boring number and the depth from which the sample was collected. For example, the soil sample collected from boring SB-31 at a depth of 7 to 8 feet bgs would be identified as SB-31-7-8. A hand auger sample from HA-03 at a depth of 0 to 1 foot bgs would be identified as HA-03-0-1. See Table C.1 and Figure C.1 for proposed boring locations and names.

C.2.11.2. Catch Basin Solid Samples

Each catch basin solids sample will be assigned a unique sample identification number that includes the sample location abbreviation, and the 6-digit date on which the sample was collected. For example, a catch basin solids sample collected from catch basin CB-02 on October 30, 2022, would be identified as CB-02-221030. See Table C.1 and Figure C.1 for proposed catch basin solids sampling locations and names.

C.2.11.3. Groundwater Samples

Each groundwater sample will be assigned a unique sample identification number that includes the well number, the six-digit date on which the sample was collected. For example, a groundwater sample collected from monitoring well MW-04D on September 30, 2022, would be identified as MW-04D-220930. See Table C.2 and Figure C.1 for proposed monitoring well locations and names.

C.2.11.4. Stormwater Samples

Each stormwater sample will be assigned a unique sample identification number that includes the sample location abbreviation, "SW" for stormwater media type, and the 6-digit date on which the sample was collected. For example, a stormwater sample collected from catch basin CB-02 on October 30, 2022, would be identified as CB-02-SW-221030. See Table C.2 and Figure C.1 for proposed stormwater sampling locations and names.

C.2.11.5. Soil Gas and Indoor Air Samples

Each soil gas sample will be assigned a unique sample identification number that includes the exploration number and the six-digit date on which the sample was collected. For example, a soil gas sample collected from soil vapor pin SG-01 on September 30, 2022, would be identified as SG-01-220930. See Table C.1 and Figure C.1 for proposed

soil gas locations and names. A sample collected from a soil gas GP-01 probe on November 5, 2023, would be identified as GP-01-231105.

Each indoor air sample, if collected, will be assigned a unique sample identification number that includes the exploration number and the six-digit date on which the sample was collected. For example, an indoor air sample collected from indoor air point IA-01 on September 30, 2022, would be identified as IA-01-220930. Ambient air and potential background air samples would be prefixed as AA- and IA-, respectively.

C.2.11.6. Field Quality Control Samples

Each field quality control sample will be assigned a unique sample identification number that includes the quality control type abbreviation in addition to other identifying information as described below. See Section C.4.6.1 for further information on the field quality control program.

C.2.11.6.1. Field Duplicates

Sample nomenclature for field duplicates will include the same nomenclature as the parent sample ID with the addition of "FD" indicating this is a field duplicate. Examples for each media are as follows:

• Soil example: SB-31-FD-7-8

• Groundwater example: MW-04D-FD-220930

• Soil gas example: SG-01-FD-220930

C.2.11.6.2. Equipment Blank

Equipment blanks will be identified by an "EB" and will be numbered sequentially. For example, the first equipment blank sample collected during Phase 2, collected on September 30, 2022, would be labeled: EB-01-220930.

C.2.11.6.3. Trip Blank

Trip blanks will be identified by an "TB" and will be numbered sequentially. For example, the first trip blank accompanying samples to the laboratory on September 30, 2022, would be labeled: TB-01-220930.

C.2.12. Sample Custody and Field Documentation

C.2.12.1. Sample Custody

The collected sample containers will be sealed inside clean, unused Ziploc bags and placed upright in a cooler. Ice will be placed in each cooler to ensure samples maintain the preservation requirements summarized in Table C.3. Inert cushioning material will be placed in the remaining space inside the cooler as needed to limit movement of the sample containers. If the sample coolers are shipped (not hand carried) to the laboratory, the COC form will be placed in a waterproof bag within the cooler for shipment.

After collection, samples will be maintained in Aspect's custody until formally transferred to the analytical laboratory, courier, or the shipper. For purposes of this work, custody of the samples is defined as follows:

- In plain view of the field representatives;
- Inside a cooler that is in plain view of the field representative; or
- Inside any locked space such as a locker, car, or truck to which the field representative has the only immediately available key(s).

A COC record provided by the laboratory will be initiated at the time of sampling for all samples collected. The record will be signed by the field representative and others who subsequently take custody of the sample. Couriers or other professional shipping representatives are not required to sign the COC form; however, shipping receipts will be collected and maintained in project files as a part of custody documentation. A copy of the COC form with appropriate signatures will be kept by Aspect's project coordinator.

Upon sample receipt, the laboratory will fill out a cooler receipt form to document sample delivery conditions. A designated sample custodian will accept custody of the shipped samples and will verify that the COC form matches the samples received. The laboratory will notify the Aspect project coordinator as soon as possible of any issues noted with the sample shipment or custody.

C.2.12.2. Field Documentation

While conducting field work, the field representative will document pertinent observations and events specific to each activity on field forms (Attachment C.1) and/or in a field notebook, and, when warranted, provide photographic documentation of specific sampling efforts. Field notes will include a description of the field activity, sample descriptions, and associated details such as the date, time, and field conditions.

C.2.13. Surveying of Exploration Locations

For each exploration location, a short description of relative location will be recorded (e.g., 5 feet north of NE corner of shed). Horizontal coordinates for each soil sampling location not completed as a monitoring well will be recorded using a hand-held GPS instrument with real-time differential correction at the time of sample collection.

The horizontal coordinates and elevations of new monitoring wells will be surveyed by a professional land surveyor relative to the Washington State Plane South horizontal coordinate system and the North American Vertical Datum of 1988 (NAVD88) vertical datum. Monitoring well top-of-casing elevations will be surveyed to the nearest 0.01 foot, and horizontal coordinates to the nearest 0.1 foot, or better. Each well will be surveyed at the marked spot (i.e., notch in the PVC casing, or permanent ink mark, etc.) on the top of the PVC well casing from which depth-to-water measurements are collected.

C.2.14. Equipment Decontamination

All non-disposable sampling equipment (e.g., stainless steel spoons and bowls) will be decontaminated before collection of each sample. The decontamination sequence consists of a scrub with a non-phosphate detergent (Alconox) solution, followed by a distilled water rinse. If heavy sheens or nonaqueous phase liquids (NAPL) are observed, additional decontamination using hexane or isopropanol will occur.

C.2.15. Investigative-Derived Waste Management

Investigation-derived waste (IDW) water generated during equipment decontamination and monitoring well development and sampling will be placed in labeled United States Department of Transportation (DOT) approved drums pending the analytical results to determine appropriate disposal. The drums will be temporarily consolidated onsite, profiled based on available analytical data, and disposed appropriately at a permitted offsite disposal facility. Any liquid IDW, including water drums, will be stored on secondary containment pallets regardless of its classification.

Soil cuttings from borings will be placed in labeled DOT-approved drums pending the analytical results to determine appropriate disposal. The drums will be temporarily consolidated onsite, profiled based on available analytical data, and disposed appropriately at a permitted off-site disposal facility. Documentation for off-site disposal of IDW will be maintained in Aspect's project file.

PPE, gloves, paper towels, baggies, and other disposable field supplies will be placed in a garbage bag, sealed, and placed in a municipal dumpster.

C.3. Quality Assurance Project Plan

This QAPP identifies QC procedures and criteria required to ensure that data collected during the Phase 2 RI are of known quality and acceptable to achieve project objectives. Specific protocols and criteria are also set forth in this QAPP for a data quality evaluation, upon the completion of data collection to determine the level of completeness and usability of the data. It is the responsibility of the project personnel performing or overseeing the sampling and analysis activities to adhere to the requirements of the SAP and this QAPP.

C.3.1. Purpose of the QAPP

As stated in Ecology's *Guidelines for Preparation of Quality Assurance Project Plans for Environmental Studies* (Ecology Publication No. 04-03-030, revised December 2016), the specific goals of this QAPP are as follows:

- Focus the project coordinator and project team to factors affecting data quality during the planning stage of the project.
- Facilitate communication among field, laboratory, and management staff as the project progresses.
- Document the planning, implementation, and assessment procedures for QA/QC activities for the investigation.
- Ensure that the Data Quality Objectives (DQOs) are achieved.
- Provide a record of the project to facilitate final report preparation.

The DQOs for the project include both qualitative and quantitative objectives, which define the appropriate type of data and specify the tolerable levels of potential decision errors that will be used as a basis for establishing the quality and quantity of data needed to support the environmental assessment. This QAPP describes both quantitative and qualitative measures of data and details aspects of data collection including analytical methods, QA/QC procedures, and data quality reviews to ensure that the DQOs are achieved. DQOs dictate data collection rationale, sampling and analysis designs that are presented in the main body of the Work Plan Addendum, and sample collection procedures that are presented in the SAP (Section C.2).

C.3.2. Project Organization and Responsibilities

The project consultant team involved with data generation includes representatives from Aspect and, under subcontract to Aspect, Laboratory Data Consultants, Inc. (LDC; data validation), Friedman & Bruya Inc. (F&B; laboratory analysis) of Seattle, Washington, Vista Analytical (Vista; laboratory analysis) of California, and Analytical Resources Inc. (ARI; laboratory analysis) of Seattle, Washington. F&B is the main analytical laboratory for the RI data collection program. Specialty chemical analyses will be sent to Vista (PCB congeners, dioxins/furans) and ARI (tributyl tins). Key individuals and their roles on this project are as follows, and contact information is listed in Table C.4:

Project Coordinator for PLP Group – Jeremy Porter, PE, Aspect. The project coordinator is responsible for the successful completion of all aspects of this project, including day-to-day management, production of reports, liaison with the Port and South Park Marina, and coordination with the project team members. The project coordinator is also responsible for resolution of non-conformance issues, is the lead author on project plans and reports, and will provide regular, up-to-date progress reports and other requested project information to the PLP Group and Ecology.

RI Lead – Zanna Satterwhite, LG, Aspect. The RI lead is responsible for overseeing the field sampling program outlined in this plan, including collecting representative samples and ensuring that they are handled properly prior to transfer of custody to the project laboratory and overseeing the field manager.

Field Manager – **Andrew Yonkofski, LHG, Aspect.** The field manager will manage procurement of necessary field supplies, assure that monitoring equipment is operational and calibrated in accordance with the specifications provided herein, and act as the Site Health and Safety Officer.

Project Data Quality Management Lead – Lea Beard, Aspect. The project data quality management lead is responsible for overseeing the management, validation, and submission of data between the analytical laboratory and delivery to Ecology.

Data Validation Manager – **Pei Geng, LDC.** The data validation manager is responsible for conducting QA validation of the analytical data reports received from the project laboratory.

Laboratory Project Manager – Eric Young, F&B; Karen Volpendesta, Vista; and Shelly Fishel, ARI. The laboratory project managers are responsible for ensuring that all laboratory analytical work for soil and water media complies with project requirements. The laboratory project manager also, while acting as liaison with the project coordinator, field manager, and data quality manager, fulfills project needs on the analytical laboratory work.

Table C.4. Project Personnel Contact Information

Person	Role	Phone Number	E-mail Address			
	Project Coordinator for					
Jeremy Porter	PLP Group	206.790.2129	jporter@aspectconsulting.com			
Zanna Satterwhite	RI Lead	206.499.7588	zsatterwhite@aspectconsulting.com			
Andrew Yonkofski	Field Manager	404.272.3488	ayonkofski@aspectconsulting.com			
	Project Data Quality					
Lea Beard	Manager	206.780.7749	lbeard@aspectconsulting.com			
Pei Geng	Data Validator	760.827.1141	pgeng@lab-data.com			
Eric Young	Lab Manager (F&B)	206.683.1731	eyoung@friedmanandbruya.com			
Karen Volpendesta	Lab Manager (Vista)	916.673.1520	kvolpendesta@vista-analytical.com			
Shelly Fishel	Lab Manager (ARI)	206.695.6200	shelly.fishel@arilabs.com			

C.3.3. Analytical Methods and Reporting Limits

Analytical methodologies applied to the analyses of samples collected during Phase 2 of the RI are in accordance with the following documents:

- EPA SW Methods EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, Third Edition, Final Updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015), and VI (2017-2019).
- EPA Clean Water Act (CWA) Methods 40 CFR, Part 136.
- Standard Methods for the Examination of Water and Wastewater, American Public Health Association, 20th Edition, 1995.
- Ecology Analytical Methods for Petroleum Hydrocarbons, Publication No. ECY 97-602, June 1997.

Table C.3 lists the laboratory analytical methods for soil, soil gas, and water analyses to be performed during the RI, along with samples containers, preservation, and analytical holding times for each analysis.

C.3.4. Method Detection Limit and Method Reporting Limit

The method detection limit (MDL) is the minimum concentration of a compound that can be measured and reported with a 99 percent confidence that the analyte concentration is greater than zero. MDLs are established by the laboratory using prepared samples, not samples of environmental media.

The method reporting limit (MRL) is defined as the lowest concentration at which a chemical can be accurately and reproducibly quantified, within specified limits of precision and accuracy, for a given environmental sample. The MRL can vary from sample to sample depending on sample size, sample dilution, matrix interferences, moisture content, and other sample-specific conditions. As a minimum requirement for organic analyses, the MRL should be equal to or greater than the concentration of the lowest calibration standard in the initial calibration curve and equal to or, preferably less than, the project screening levels. The expected MRLs are summarized in Tables C.5, C.6, and C.7for soil, water, and soil gas samples, respectively.

The most stringent RI screening levels for soil, water, and soil gas are compared relative to MRLs in Tables C.5, C.6, and C.7, respectively. MRLs greater than screening levels are highlighted in the tables. MRLs are operationally equivalent to practical quantitation limits (POLs) as defined in MTCA.

C.3.4.1. Sample Preparation for Analysis of Brackish and/or Turbid Water Samples

Saline water samples may create analytical interferences for trace metals analyses due to the high levels of dissolved solids in the samples. Saline groundwater samples are indicated by their elevated specific electrical conductance. Friedman & Bruya. employs a

triple quadripole ICP-MS which has Universal Cell Technology (UCT) that assists with sodium interference in the analyses. To assist the laboratory in identifying saline groundwater samples so that analytical adjustments may be taken, the field-measured specific conductance for each groundwater sample with conductance greater than 1,000 μ S/cm will be recorded on the corresponding COC document.

Turbid water samples may create high bias not representative of groundwater quality for analyses of hydrophobic compounds (e.g., high molecular weight PAHs, PCBs, dioxins/furans). To limit potential for turbidity bias, groundwater samples with field-measured turbidities greater than 10 NTU will be recorded on the corresponding chain of custody and will be centrifuged in the laboratory prior to analysis for PAHs, SVOCs, PCBs, or pesticides.

C.3.5. Measurement Quality Objectives

Measurement quality objectives (MQOs), including the Measurement Quality Indicators (MQIs)—precision, accuracy, representativeness, comparability, completeness, and sensitivity (namely PARCCS parameters)—and sample-specific reporting limits (RLs) are dictated by the project requirements and intended uses of the data. For this project, the analytical data must be of sufficient technical quality to determine whether contaminants are present and, if present, whether their concentrations are greater than or less than applicable screening levels as adjusted for PQLs.

The quality of data generated through this RI will be assessed against the MQIs set forth in this QAPP. Specific QC parameters associated with each of the PARCCS are summarized in Table C.8. Specific MQI goals and evaluation criteria (i.e., percent recovery (%R) for accuracy measurements, relative percent difference (RPD) for precision measurements, are defined in Tables C.5, C.6, and C.7along with the MRLs. Definitions of these parameters and the applicable QC procedures are presented below.

C.3.5.1. Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared with their average values. Analytical precision is measured through matrix spike/matrix spike duplicate (MS/MSD) samples and laboratory control samples/laboratory control sample duplicate (LCS/LCSD) for organic analysis and through laboratory duplicate samples for inorganic analyses.

Analytical precision is quantitatively expressed as the RPD between the LCS/LCSD, MS/MSD, or laboratory duplicate pairs, and is calculated with the following formula:

$$RPD (\%) = 100 \times \frac{|S - D|}{(S + D)/2}$$

where:

S = analyte concentration in sample

D = analyte concentration in duplicate sample

Analytical precision measurements will be carried out at a minimum frequency of 1 per 20 samples for each matrix sampled, or 1 per laboratory analysis group. Laboratory precision will be evaluated against laboratory quantitative RPD performance criteria provided with the laboratory's analytical data report. If the control criteria are not met, the laboratory will supply a justification of why the limits were exceeded and implement the appropriate corrective actions. The RPD will be evaluated during data review and validation. The data reviewer will note deviations from the specified limits and will comment on the effect of the deviations on reported data.

C.3.5.2. Accuracy

Accuracy measures the closeness of the measured value to the true value. The accuracy of chemical test results is assessed by "spiking" samples with known standards (surrogates, blank spikes, labeled compounds, or matrix spikes) and establishing the recovery. Accuracy is quantified as the %R. The closer the %R is to 100 percent, the more accurate the data.

Surrogate, LCS/LCSD, and labeled compound recovery will be calculated as follows:

Recovery (%) =
$$\frac{MC}{SC} \times 100$$

where:

SC = spiked concentration

MC = measured concentration

MS/MSD percent recovery will be calculated as follows:

Recovery (%) =
$$\frac{MC - USC}{SC} \times 100$$

where:

SC = spiked concentration

MC = measured concentration

USC = unspiked sample concentration

Accuracy measurements on MS samples will be carried out at a minimum frequency of 1 in 20 samples per matrix analyzed, as applicable to the method. Some methods, such as dioxins/furans, do not require MS/MSD analyses. Blank spikes will also be analyzed at a minimum frequency of 1 in 20 samples per matrix analyzed. Surrogate recoveries for organic compounds will be determined for each sample analyzed for respective compounds. Laboratory accuracy will be evaluated against the laboratory's quantitative MS and surrogate spike recovery performance criteria as provided with the laboratory's analytical data report. Labeled compound recoveries for HRMS methods will be evaluated against the method criteria. If the control criteria are not met, the laboratory will supply a justification of why the limits were exceeded and implement the appropriate corrective actions. Percent recoveries will be evaluated during data review and validation, and the data reviewer will comment on the effect of the deviations on the reported data.

C.3.5.3. Representativeness

Representativeness measures how closely the measured results reflect the actual concentration or distribution of the chemical compounds in the matrix sampled. The SAP sampling techniques and sample handling protocols (e.g., homogenizing, storage, preservation, and use of duplicates and blanks) have been developed to ensure representative samples. Sampling locations for RI activities are described in Section 7 of the Work Plan Addendum. The RI field sampling procedures are described in Section C.2 of this SAP.

C.3.5.4. Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal will be achieved through the use of standard techniques to collect samples, EPA-approved standard methods to analyze samples, and consistent units to report analytical results. Data comparability also depends on data quality. Data of unknown quality cannot be compared.

C.3.5.5. Completeness

Completeness is defined as the percentage of measurements made that are judged to be valid. Results will be considered valid if the precision, accuracy, and representativeness objectives are met and if RLs are sufficient for the intended uses of the data. Completeness is calculated as follows:

Completeness (%) =
$$\frac{V}{P} \times 100$$

where:

V = number of valid measurements

P = number of measurements taken

Valid and invalid data (i.e., data qualified with the R flag [rejected]) will be identified during data validation. The target completeness goal for this project is 95 percent.

C.3.5.6. Sensitivity

Sensitivity depicts the level of ability an analytical system (i.e., sample preparation and instrumental analysis) has in detecting a target component in a given sample matrix with a defined level of confidence. Factors affecting the sensitivity of an analytical system include: analytical system background (e.g., laboratory artifact or method blank contamination), sample matrix (e.g., mass spectrometry ion ratio change, co-elution of peaks, or baseline elevation), and instrument instability.

C.3.6. Quality Control Procedures

Field and laboratory QC procedures are outlined below.

C.3.6.1. Field Quality Control

Beyond use of standard sampling and decontamination protocols defined in the SAP, field QC procedures include maintaining the field instruments. Field instruments (e.g.,

PID for evaluating presence of VOCs in soil samples, and the YSI or equivalent meter for measuring field parameters during groundwater and stormwater sampling) are maintained and calibrated regularly prior to use, in accordance with manufacturer recommendations.

In addition, field QC samples will be collected and submitted for analyses to monitor the precision and accuracy associated with field procedures. Field QC samples to be collected and analyzed for this RI include trip blanks, field duplicates, and equipment rinsate blanks. The definition and sampling requirements for field QC samples are presented below.

C.3.6.1.1. Trip Blank

Trip blank samples will be used to monitor possible VOC and PCB cross-contamination occurring during sample handling and transport. Trip blank samples will be prepared and supplied by the laboratory; organic-free reagent-grade water will be placed into a VOC vial and glass sample bottle prior to the collection of field samples. The trip blank sample vials will be placed with and accompany the VOC and gasoline-range TPH samples through the entire transporting process from the laboratory to the field and back to the laboratory. One trip blank will be placed in each cooler containing samples where VOC or gasoline-range TPH analyses are conducted. Similarly, the trip blank sample bottles will be placed with and accompany the PCB samples throughout the entire process.

In case a target compound is present in a trip blank, results for all samples shipped with this trip blank will be evaluated and data qualified accordingly if determined that the results are affected.

C.3.6.1.2. Field Duplicates

Field duplicate samples are used to check for sampling and analysis reproducibility; however, the field duplicate sample results include variability introduced during both field sampling and laboratory preparation and analysis, and EPA data validation guidance provides no specific evaluation criteria for field duplicate samples. Advisory evaluation criteria are set forth at 35 percent for RPD (if both results are greater than five times the RL) and two times the RLs for concentration difference (if either result is less than five times the RL) between the original and field duplicate results.

Field duplicates will be submitted "blind" to the laboratory as discrete samples (i.e., given unique sample identifiers to keep the duplicate identity unknown to the laboratory), but will be clearly identified in the field log. Field duplicate samples will be collected at a frequency of 5 percent (1 per 20) of the field samples for each matrix and analytical method, but not less than one duplicate per sampling event per matrix.

If a given soil sample depth interval lacks sufficient volume (recovery) to supply material for a planned analysis and its field duplicate analysis, the field duplicate aliquot will be collected for that analysis from another depth interval in that same location if practical.

C.3.6.1.3. Equipment Rinsate Blank

Equipment rinsate blanks are collected to determine the potential of cross-contamination introduced by equipment that is used and decontaminated at multiple sample locations (e.g., stainless steel spoons used for placing soil samples in jars). Deionized water

(obtained from the laboratory) is rinsed through the decontaminated sampling equipment and collected into adequate sample containers for analysis of semivolatile organic compounds (SVOCs) (including phthalates), diesel- and oil-range TPH, organochlorine pesticides, PCB Aroclors, PCB congeners, dioxins/furans, and metals. The equipment rinsate blank is then handled in a manner identical to the primary samples collected with that piece of equipment. The blank is then processed, analyzed, and reported as a regular field sample. Equipment rinsate blanks will be collected at a frequency of 5 percent (1 per 20) of the field samples for each matrix and analytical method, but not less than one duplicate per sampling event per matrix. When dedicated equipment is used (e.g., during water sampling), these blanks are not needed.

C.3.6.2. Laboratory Quality Control

The laboratories' (F&B, ARI, and Vista) analytical procedures must meet requirements specified in the respective analytical methods or approved laboratory standard operating procedures (SOPs), such as instrument performance check, initial calibration, calibration check, blanks, surrogate spikes, internal standards, and/or labeled compound spikes. Specific laboratory QC analyses required for this project will consist of the following at a minimum:

- Instrument tuning, instrument initial calibration, and calibration verification analyses as required in the analytical methods and the laboratory SOPs.
- Laboratory and/or instrument method blank measurements at a minimum frequency of 5 percent (1 per 20 samples) or in accordance with method requirements, whichever is more frequent.
- Accuracy and precision measurements as defined in Table C.8, at a minimum frequency of 5 percent (1 per 20 samples) or in accordance with method requirements, whichever is more frequent. In cases where a pair of MS/MSD or MS/laboratory duplicate analyses are not performed on a project sample, a set of LCS/LCSD analyses will be performed to provide sufficient measures for analytical precision and accuracy evaluation.

The laboratory's QA officers are responsible for ensuring that the laboratory implements the internal QC and QA procedures detailed in each laboratory's Quality Assurance Manual.

C.3.7. Corrective Actions

If routine QC audits by the laboratory result in detection of unacceptable conditions or data, actions specified in the laboratory SOPs will be taken. Specific corrective actions are outlined in each SOP used and can include the following:

- Identifying the source of the violation
- Reanalyzing samples if holding time criteria permit
- Resampling and analyzing
- Evaluating and amending sampling and analytical procedures
- Accepting but qualifying data to indicate the level of uncertainty

If unacceptable conditions occur, the laboratory will contact Aspect's project coordinator to discuss the issues and determine the appropriate corrective action. Corrective actions taken by the laboratory during analysis of samples for this project will be documented by the laboratory in the case narrative associated with the affected samples.

In addition, the project data quality manager will review the laboratory data generated for this investigation to ensure that project DQOs are met. If the review indicates that non-conformances in the data have resulted from field sampling or documentation procedures or laboratory analytical or documentation procedures, the impact of those non-conformances on the overall project data usability will be assessed. Appropriate actions, including re-sampling and/or re-analysis of samples may be recommended to the project coordinator to achieve project objectives.

C.3.8. Data Reduction, Quality Review, and Reporting

All data will undergo a QA/QC evaluation at the laboratory, which will then be reviewed by the Aspect database manager and the project data quality manager. Initial data reduction, evaluation, and reporting at the laboratory will be carried out in full compliance with the method requirement and laboratory SOPs. The laboratory internal review will include verification (for correctness and completeness) of electronic data deliverable (EDD) accompanied with each laboratory report. The Aspect database manager will verify the completeness and correctness of all laboratory deliverables (i.e., laboratory report and EDDs) before releasing the deliverables for data validation.

C.3.9. Minimum Data Reporting Requirements

The following sections specify general and specific requirements for analytical data reporting to provide sufficient deliverables for project documentation and data quality assessment.

C.3.9.1. General Requirements

The following requirements apply to laboratory reports for all types of analyses:

- A laboratory report will include a cover page signed by the laboratory director, the laboratory QA officer, or his/her designee to certify the eligibility of the reported contents and the conformance with applicable analytical methodology.
- Definitions of abbreviations, data flags, and data qualifiers used in the report.
- Cross reference of field sample names and laboratory sample identity for all samples in the sample delivery group (SDG).
- Completed COC document signed and dated by parties who acquired and received the samples.
- Completed sample receipt document with record of cooler temperature and sample conditions upon receipt at the laboratory. Anomalies such as inadequate sample preservation, inconsistent bottle counts, and sample container breakage, and the communication record and corrective actions in response to the anomalies

- will be documented and incorporated in the sample receipt document. The document will be initialed and dated by personnel that complete the document.
- Case narrative that addresses any anomalies or QC outliers in relation to sample receiving, sample preparation, and sample analysis on samples in the SDG. The narrative will be presented separately for each analytical method and each sample matrix.
- All pages in the report are to be paginated. Any insertion of pages after the laboratory report is issued will be paginated with starting page number suffixed with letters (e.g., pages inserted between pages 134 and 135 should be paginated as 134A, 134B, etc.)
- Any resubmitted or revised report pages will be submitted to Aspect with a cover page stating the reason(s) and scope of the resubmission or revision, and signed by the laboratory director, QA officer, or the designee.

C.3.9.2. Specific Requirements

The following presents specific requirements for laboratory reports:

- Sample results: Sample results will be evaluated and reported down to the MDLs. Detections at levels greater than the MDLs but less than the MRLs will be reported and flagged with "J". Results less than the MDLs (or estimated detection limits [EDLs] for dioxin/furans) will be reported at the MDLs and flagged with "U". All soil sample results will be reported on a dry-weight basis. The report pages for sample results (namely Form 1s) will, at a minimum, include sample results, MRLs, unit, proper data flags, dates of sample collection, preparation, and analysis, dilution factor, percent moisture (for solid samples), and sample volume (used for analysis).
- Instrument run log: The run log will list, in chronological order, all analytical runs on field samples, QC samples, calibrations, and calibration verification analyses in the SDG with data file name (and/or legible laboratory codes) and analysis date/time for each analytical run.
- Original sample preparation and analyst worksheet: The worksheet will be initialed and dated by analyst and reviewer.
- Gas Chromatography/Mass Spectrometry (GC/MS) and inductively coupled plasma (ICP)/MS tune report: The report will include ion abundance ratios and criteria for all required ions.
- Initial calibration summary: The summary will include the data file name for each calibration standard file; response factor (RF) or calibration factor (CF) for each calibration standard and each target and surrogate compound; average RF or CF, percent relative standard deviation (%RSD), correlation coefficient, or coefficient of determination; and absolute and relative retention times and ion ratios for high-resolution GC/MS (HRGC/HRMS) methods for each target compound and surrogate (labeled) compounds.

- Calibration verification summary: The summary will include the true amount, calculated amount, and percent difference (%D), or percent drift (%D_f) as applicable for target compounds.
- Method blank results will be included.
- LCS and LCSD (if MSD analysis is not performed) results with laboratory acceptance criteria for %R and RPD.
- Surrogate spike and labeled compound results with laboratory acceptance criteria for %R.
- MS and MSD results with laboratory acceptance criteria for %R and RPD. In cases where MS/MSD analyses were not performed on a project sample, LCS/LCSD analyses should be performed and reported instead.
- Laboratory duplicate results with RPD and acceptance criteria
- Internal standard (as applicable) results: Internal standard response areas in field samples, QC analyses, and associated calibration verification analyses.
- Interference check standards
- Serial dilutions (metals)
- All instrument printouts (raw data) for tests receiving EPA Stage 4 data validation (PCB congener analysis).

C.3.10. Data Quality Verification and Validation

Reported analytical results will be qualified by the laboratory to identify QC concerns in accordance with the specifications of the analytical methods. Additional laboratory data qualifiers may be defined and reported by the laboratory to more completely explain QC concerns regarding a particular sample result. All data qualifiers will be defined in the laboratory's narrative reports associated with each case.

LDC Inc., under subcontract to Aspect, will conduct an independent Level 4 validation (as defined in EPA, 2009) on any dioxins/furans and PCB congener analytical data collected, and will perform Level 2a validation on the remaining analytical data. Data validation will be conducted following the guidance below:

- EPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, Office of Superfund Remediation and Technical Innovation, U.S. Environmental Protection Agency, January 2017, EPA-540-R-21017-001
- EPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, Office of Superfund Remediation and Technical Innovation, U.S. Environmental Protection Agency, January 2017, EPA-540-R-2017-002
- EPA R10 [Region 10] Data Validation and Review Guidelines for Polychlorinated Dibenzo-p-Dioxin and Polychlorinated Dibenzofuran data

(PCDD/PCDF) Using Method 1613B, and SW846 Method 8290A, May 2014, EPA-910-R-14-003

• EPA, National Functional Guidelines for High Resolution Superfund Methods Data Review, April 2016, EPA 542-B-16-001

In the event that Region 10 guidance for dioxins/furans differs from the Natural Functional Guidelines, the Region 10 guidance will be followed.

The data validation will examine and verify the following parameters against the method requirements and laboratory control limits specified in Tables C.5, C.6, and C.7 for soil, water, and soil gas analyses, respectively:

- Sample management and holding times
- Instrument performance check, calibration, and calibration verification
- Laboratory and field blank results
- Detection and reporting limits
- Laboratory replicate results
- MS/MSD results
- LCS and/or standard reference material results
- Field duplicate results
- Surrogate spike recovery (organic analyses only)
- Internal standard recovery (internal calibration methods only)
- Inter-element interference check (inductively coupled plasma analyses only)
- Serial dilution (metals only)
- Labeled compound recovery (isotope dilution methods only)
- Ion ratios for detected compounds (HRGC/HRMS methods only)

Data qualifiers will be assigned based on the outcome of the data validation. Data qualifiers are limited to and defined as follows:

- U The analyte was analyzed for but was determined to be non-detect above the reported sample quantitation limit, or the quantitation limit was raised to the concentration found in the sample due to blank contamination.
- **J** The analyte was positively identified at levels greater than the MDLs but less than the RLs; the associated numerical value is an estimate of the concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- H The sample was analyzed outside the method specified holding time requirement.

- **R** The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be verified.
- **DNR** Do not report from this analysis; the result for this analyte is to be reported from an alternative analysis.

In cases of multiple analyses (such as an undiluted and a diluted analysis) performed on one sample, the most representative result will be determined and only the determined result will be reported for the sample.

The scope and findings of the data validation will be documented and discussed in the Data Validation Report(s). The Data Validation Report(s) will be included as an appendix to the RI report.

C.3.11. Preventative Maintenance Procedures and Schedules

Preventative maintenance in the laboratory will be the responsibility of the laboratory personnel and analysts. This maintenance includes routine care and cleaning of instruments and inspection and monitoring of carrier gases, solvents, and glassware used in analyses. Details of the maintenance procedures are addressed in the respective laboratory SOPs.

Precision and accuracy data are examined for trends and excursions beyond control limits to determine evidence of instrument malfunction. Maintenance will be performed when an instrument begins to change as indicated by the degradation of peak resolution, shift in calibration curves, decrease in sensitivity, or failure to meet one or another of the method-specific QC criteria.

Maintenance and calibration of instruments used in the field for sampling (e.g., PID for evaluating presence of VOCs in soil samples, and the YSI meter for measuring field parameters during groundwater sampling) will be conducted regularly in accordance with manufacturer recommendations prior to use.

C.3.12. Performance and System Audits

The Aspect project coordinator has responsibility for reviewing the performance of the laboratory QA program; this review will be achieved through regular contact with the analytical laboratory's project manager. To ensure comparable data, all samples of a given matrix to be analyzed by each specified analytical method will be processed consistently by the same analytical laboratory.

C.3.13. Data and Records Management

Records will be maintained documenting all activities and data related to field sampling and chemical analyses.

C.3.13.1. Field Documentation

The Aspect field manager will ensure that the field team receives and understands the final approved version of this QAPP, the Site Health and Safety Plan (Appendix F of the RI Work Plan), and the SAP prior to initiation of field activities and that all approved plans are followed at all times. Field documents will be maintained in the project file.

C.3.13.2. Analytical Data Management

Raw data received from the analytical laboratory in electronic data deliverable (EDD) format will be reviewed, entered into a computerized database, and verified for consistency and correctness. The database will be updated based on data review and independent validation if necessary.

The following data will be included in the database:

- Laboratory analytical results, including laboratory data qualifiers
- Data validator qualifiers
- Sample location name and coordinates
- Sample media (i.e., groundwater or soil)
- Sample date
- Sample ID
- Sampling depth interval for soil samples
- Sample fraction (e.g., total or dissolved phase)
- Sample type (e.g., parent, field duplicate, trip blank, rinsate blank, or dilution)
- Calculated values, such as the total toxic equivalency for carcinogenic PAHs, PCBs, and dioxins/furans.

Data will be submitted to Ecology's Environmental Information Management (EIM) database once data have been reviewed and validated.

C.4. References

- American Public Health Association, Standard Methods for the Examination of Water and Wastewater, American Public Health Association, 20th Edition, 1995.
- United States Environmental Protection Agency (EPA), USEPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, Third Edition, Final Updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015), and VI (2017-2019).
- United States Environmental Protection Agency (EPA), 2009, Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use, Office of Solid Waste and Emergency Response, EPA 540-R-08-005, dated January 13, 2009.
- United States Environmental Protection Agency (EPA), 2014, R10 [Region 10] Data Validation Review Guidelines for Polychlorinated Dibenzo-p-Dioxin and Polychlorinated Dibenzofuran Data (PCDD/PCDF) Using Method 1613B, and SW846 Method 8290A, Office of Environmental Assessment, EPA-910-R-14-003, dated May 2014.
- United States Environmental Protection Agency (EPA), 2016, National Functional Guidelines for High Resolution Superfund Methods Data Review, Office of Superfund Remediation and Technology Innovation, EPA-542-B-16-001, dated April 2016.
- United States Environmental Protection Agency (EPA), 2017a, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, Office of Superfund Remediation and Technology Innovation, EPA-540-R-2017-001, dated January 2017.
- United States Environmental Protection Agency (EPA), 2017b, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, Office of Superfund Remediation and Technology Innovation, EPA-540-R-2017-002, dated January 2017.
- Washington State Department of Ecology (Ecology), 1997, Ecology Analytical Methods for Petroleum Hydrocarbons, Publication No. ECY 97-602, June 1997.
- Washington State Department of Ecology (Ecology), 2016, Guidelines for Preparing Quality Assurance Project Plans for Environmental Studies, Ecology, No. 04-03-030.
- Washington State Department of Ecology (Ecology), 2022, Guidance for Evaluating Vapor Intrusion in Washington State, Investigation and Remedial Action, Toxics Cleanup Program, Publication No. 09-09-047, dated: March 2022.

APPENDIX C

Tables

Investigation Area		1			1								Analyses				
Investigation Acc-	Exploration	Proposed Boring Methodology	Proposed I		Planned Exploration	Target Sample Depths (ft bgs) ⁽²⁾	Objective(s)	Metals ⁽³⁾	Tributyl Tin	ТРН	VOCs	SVOCs	Low-Level PAHs (SIM)	Organochlorine Pesticides	Aroclors	Congeners ⁽⁴⁾	Dioxins / Furans ⁽⁵⁾
MARGINGINI MER	Exploration	Methodology	Northi	ng ^{, ,}	Depth (ft bgs)	0-1	Assess surface soil to characterize direct contact pathways and characterize changes to surface soil quality from fire and evaluation of D/F.	Standard	Rush	Rush	Rush	Rush	Rush	Rush	Standard	Archive	Archive
	MW-04D	Sonic	1275109	195752	30	5-6 10.5-11.5 13.5-14.5	Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary.	Archive Archive Archive	Archive Archive Archive	Archive Archive Archive	Archive	Archive Archive Archive	Archive Archive Archive	Archive Archive Archive	Archive Archive Archive		
	WW-04D	Suiic	1273109	185752	30	18-20 20-22	Archive samples for vertical delineation, if necessary. Vertical delineation of PCB exceedances at MW-04.	Archive	Archive	Archive	Archive	Archive	Archive	Archive	Archive Standard	Archive	Archive
						25-27 28-30	Horizontal delineation of deeper metals, TBT, PAHs, pesticides, and PCB exceedances at MW-05. Archive samples for vertical delineation, if necessary.	Standard Archive	Standard Standard				Rush Archive	Rush Archive	Standard Archive	Archive	Archive
							Assess surface soil to characterize direct contact pathways and characterize changes to surface soil qualify from fire and evaluation of DIF. Archive samples for vertical delineation, if necessary.	Standard Archive	Standard Archive Archive	Archive		Archive Archive	Standard Archive Archive	Standard Archive Archive	Standard Archive	Archive	Archive
	MW-05D	Sonic	1275104	195776	40	8-9.5 15-16 17-19	Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary. Collect and analyze additional samples in the alluvial/Till lavers of MW-05D to confirm previous	Archive Archive	Archive	Archive	Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive Archive		
					-10	20.5-22.5 26-28 30-32	exceedances in alluvium and Till at MW-05 to rule out potential cross contamination issue. Assess vertical extent of former pond and vertical delineation of metals, TBT, pesticide, and PCB	Standard Standard	Standard			Archive Rush	Archive Rush	Rush Standard Standard	Standard Standard Standard	Archive Archive	Archive Archive
Former A&B Barrel						34-36	exceedances at MW-05. Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary.	Archive Archive	Archive Archive					Archive Archive	Archive Archive	Archive	Archive
Pond Area						0-1 4-5	Assess surface soil to characterize direct contact pathways and characterize changes to surface soil quality from fire and evaluation of D/F. Archive samples for vertical delineation, if necessary.	Standard Archive	Standard Archive	Standard Archive			Standard Archive	Standard Archive	Standard Archive	Archive	Archive
	MW-06D	Sonic	1275105	195786	30	9-10 14-15	Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary.	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive		
						25-27	Archive samples for vertical delineation, if necessary. Vertical delineation of pesticide and VOC exceedances at MW-06. Horizontal delineation of deeper metals, TBT, PAHs, pesticides, and PCB exceedances at MW-05.	Archive Standard	Standard	Archive	Rush	Archive Rush	Archive	Archive Rush	Archive Standard	Archive	Archive
_						28-30 0-1	Archive samples for vertical delineation, if necessary. Assess surface soil to characterize direct contact pathways and characterize changes to surface soil quality from fire and evaluation of D/F.	Archive Standard	Standard Rush	Rush	Archive Standard	Archive Standard	Standard	Archive Standard	Archive Standard	Archive	Archive
	MW-16 ⁽⁶⁾	Sonic	1275065	195739	30	5.5-6.5 12-13 Screen Interval ⁽⁷⁾	Lateral extent of PCB, SVOC, pesticide, and VOC exceedances at SB-26. Lateral extent of PCB, SVOC, pesticide, and VOC exceedances at SB-26. Characterize screen interval; if different from other sample intervals.	Archive Archive Standard	Archive Archive Standard	Archive Archive Standard	Rush	Standard Rush Standard	Standard Rush Standard	Standard Rush Standard	Standard Standard Standard	Archive Archive Archive	Archive Archive Archive
						18-20 23-25	Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary.	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	7401110	7401110
-	SB-42	Sonic	1275093	195762	10	28-30 0-1 4-5	Archive samples for vertical delineation, if necessary. Archive samples for lateral/vertical delineation, if necessary Archive samples for lateral/vertical delineation, if necessary	Archive Archive Archive	Archive Standard Archive		Archive Archive	Archive Archive	Archive Archive Archive	Archive Archive Archive	Archive Archive Archive		
	TBD (6)	TBD	TBD	TBD	30	9-10 Screen Interval ⁽⁷⁾ TBD	Assess thickness of Pond Fill. Characterize screen interval, if different from other sample intervals. Archive samples for vertical delineation, if necessary.	Archive Standard Archive	Standard Standard Archive		Standard	Standard Standard Archive	Archive Standard Archive	Standard Standard Archive	Archive Standard Archive	Archive	Archive
						0-1	Lateral delineation of metals, TBT, PCB, SVOC, PAHs, TPH, and VOC exceedances at HA-01 and HA-02.	Standard	Rush	Rush	Rush	Rush	Rush		Archive		
	SB-35 ⁽⁶⁾	Direct Push	1275048	195686	20	3-5 Water Table 13-15	Nature and extent of contamination beneath former building footprints and in fire area. Nature and extent of contamination beneath former building footprints and in fire area. Archive samples for vertical delineation, if necessary.	Archive Standard Archive	Archive Rush Archive	Archive Rush Archive	Rush Archive	Archive Rush Archive	Archive Rush Archive	Archive Archive Archive	Archive Standard Archive	Archive	Archive
						18-20 0-1	Archive samples for vertical delineation, if necessary. Assess surface soil to characterize direct contact pathways and characterize changes to surface soil qualify clf HA-Q2) from fire.	Archive Standard	Archive Rush		Archive Rush	Archive Rush	Archive Rush	Archive	Archive Archive		
	SB-36 ⁽⁶⁾	Direct Push	1275072	195707	20	3-5 Water Table	Assess surface soil to characterize direct contact pathways and characterize changes to surface soil quality (at HA-02) from fire. Vertical delineation of metals, PCB, TPH, and VOC exceedances at HA-02.	Archive Standard	Archive Rush	Archive Rush	Archive Rush	Archive Rush	Archive Rush	Archive Archive	Archive Standard	Archive	Archive
						13-15 18-20 0-1	Archive samples for vertical defineation, if necessary. Archive samples for vertical defineation, if necessary. Archive samples for vertical defineation, if necessary. Nature and extent of contamination beneath former building footprints and in fire area.	Archive Archive Standard	Archive Archive Rush	Archive Archive Rush	Archive Archive Rush	Archive	Archive Archive Rush	Archive Archive Rush	Archive Archive Standard	Archive	Archive
	SB-37 ⁽⁶⁾	Direct Push	1275035	195708	20	3-5 Water Table	Nature and extent of contamination beneath former building footprints. Nature and extent of contamination beneath former building footprints.	Archive Standard	Archive Rush	Archive Rush	Archive Rush	Archive Rush	Archive Rush	Archive Archive	Archive Standard	Archive	Archive
-						0-1	Archive samples for vertical delineation, if necessary. Archive samples for wertical delineation, if necessary. Nature and extent of contamination beneath former building footprints and in fire area.	Archive Archive Standard	Archive Archive Rush	Rush	Rush	Archive Rush	Archive Archive Rush	Archive Archive Rush	Archive Archive Standard	Archive	Archive
Southwest Property Area	SB-38 ⁽⁶⁾	Direct Push	1275002	195688	20	3-5 Water Table 13-15	Nature and extent of contamination beneath former building footprints. Nature and extent of contamination beneath former building footprints. Archive samples for vertical delineation, if necessary.	Archive Standard Archive	Archive Rush Archive	Archive Rush Archive	Archive Rush Archive	Rush	Archive Rush Archive	Archive Archive Archive	Archive Standard Archive	Archive	Archive
_						18-20 0-1 3-5	Archive samples for vertical delineation, if necessary. Nature and extent of contamination beneath former building footprints and in fire area. Nature and extent of contamination beneath former building footprints.	Archive Standard Archive	Archive Rush Archive	Archive Rush Archive	Archive Rush Archive	Archive	Archive Rush Archive	Archive Rush Archive	Archive Standard Archive	Archive	Archive
	SB-39 ⁽⁶⁾	Direct Push	1275046	195742	20	Water Table 13-15	Nature and extent of contamination beneath former building footprints. Archive samples for vertical delineation, if necessary.	Standard Archive	Rush Archive	Rush Archive	Rush Archive	Rush Archive	Rush Archive	Archive Archive	Standard Archive	Archive	Archive
-						18-20 0-1 3-5	Archive samples for vertical delineation, if necessary. Confirm PCB exceedance at SS-38 and characterize surface soil for other Site COPCs. Archive samples for vertical delineation in vadose zone, if necessary.	Archive Standard Archive	Archive Rush Archive	Archive Rush Archive	Archive Rush Archive	Archive Rush Archive	Archive Rush Archive	Archive Rush Archive	Archive Standard Archive	Archive	Archive
	MW-17	Direct Push	1274862	195724	20	Water Table 13-15	Characterize saturated soil conditions on western edge of property, upgradient of groundwater metals, PCB, and pesticide exceedances at MW-15. Archive samples for vertical delineation, if necessary.	Standard Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Rush Archive	Rush Archive	Standard Archive	Archive	Archive
	MW-18	Direct Push	1275045	195656	15	18-20 0-1	Archive samples for vertical delineation, if necessary. Samples at this location will be collected during the advancement of MW-18D Lateral delineation of metals, TBT, PCB, PAH, SVOC, and TPH exceedances at HA-01.	Archive Standard	Archive	Archive	Archive	Archive	Archive Rush	Archive	Archive Standard	Archive	Archive
						3-5 Water Table	Archive samples for vertical delineation in vadose zone, if necessary. Characterize saturated soil conditions on upgradient edge of property and near historical results	Archive Standard	Archive Rush	Archive Rush	Archive Rush	Archive Rush	Archive Rush	Archive Rush	Archive Standard	Archive	Archive
	MW-18D	Direct Push	1275041	195651	30	13-15	from HA-01. Characterize screen interval, if different from other sample intervals. Archive samples for vertical delineation, if necessary.	Standard Archive	Standard Archive	Archive	Archive	Standard Archive	Standard Archive	Standard Archive	Standard Archive	Archive	Archive
							Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary.	Archive Archive	Archive Archive	Archive Archive		Archive Archive	Archive Archive	Archive Archive	Archive Archive		
						0-1 3-5	Lateral delineation of metals, TBT, PCB, SVOC, PAH, and TPH exceedances at SB-27 and MW- 08. Investigation of surface soil for pesticides based on groundwater results at MW-08. Archive samples for vertical delineation in vadose zone, if necessary.	Standard Archive	Rush	Rush	Rush	Rush	Rush	Rush	Standard Archive	Archive	Archive
	SB-40	Direct Push	1274962	195836	20	Water Table	Lateral delineation of metals, TBT, PCB, SVOC, PAH, and TPH exceedances at SB-27 and MW- 08.	Standard Archive	Rush	Rush	Rush	Rush	Rush	Rush	Standard	Archive	
							Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary. Lateral delineation of TBT, PCB, PAH, SVOC, and TPH exceedances at SB-27. Investigation of	Archive Archive Standard	Archive Archive	Archive Archive Rush	Archive Archive Rush	Archive Archive Rush	Archive Archive Rush	Archive Archive Rush	Archive Archive Standard	Archive	Archive
Boat Wash and Historical Boat Manufacturing Area	SB-41	Direct Push	1275017	195862	20	3-5 Water Table	surface soil for pesticides based on groundwater results at MW-08. Archive samples for vertical delineation in vadose zone, if necessary. Lateral delineation of TBT, PCB, PAH, SVOC, and TPH exceedances at SB-27.	Archive Standard	Archive Rush	Archive			Archive Rush	Archive Rush	Archive Standard	Archive	Alcriive
						13-15 18-20 0-1	Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary. Archive samples for lateral/vertical delineation, if necessary.	Archive Archive Archive	Archive Archive Archive	Archive Archive		Archive Archive Archive	Archive Archive Archive	Archive Archive	Archive Archive Archive		
	MW-08D	Direct Push	1274991	195883	20	3-5 Water Table	Archive samples for vertical delineation, if necessary Vertical delineation of metals, TBT, SVOC, PAH, and TPH exceedances at SB-27 and MW-08.	Archive Standard	Archive Rush	Archive Rush	Archive Rush	Archive Rush	Archive Rush	Archive Rush	Archive Archive		
	WWV-00D	Direct Fusii	1274991	193003	20	13-15	Characterize screen interval, if different from other sample intervals. Archive samples for vertical delineation, if necessary.	Standard Archive	Standard Archive	Standard Archive		Archive	Standard Archive	Standard Archive	Standard Archive	Archive	
						18-20 0-1 3-5	Archive samples for vertical delineation, if necessary. Archive samples for vertical and lateral delineation, if necessary. Characterize pesticides in vadose zone at upgradient portion of Property	Archive Archive	Archive	Archive Archive Archive	Archive Archive Archive	Archive	Archive Archive	Archive Archive Rush	Archive		
	MW-13D	Sonic	1274517	195888	40	Water Table 13-15 18-20	Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary.			Archive Archive	Archive Archive			Archive Archive Archive			
						23-25 28-30	Archive samples for vertical delineation, if necessary. Vertical delineation of TPH and VOC exceedances at SB-31 and MW-13. Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary.			Rush Archive	Rush Archive Archive			Archive			
							Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary. Lateral delineation of metals, PCB, PAHs, and VOC exceedances in vadose soil at MW-13 and SB-10.	Standard			Archive		Standard		Standard	Archive	Archive
	MW-20	Direct Push	1274521	195851	20	Water Table	 Lateral delineation of PCB, PAHs, TPH, and VOC exceedances in saturated soil at MW-13 and SB- 30. Archive samples for vertical delineation, if necessary. 	Archive		Rush	Rush		Rush		Standard	Archive	
Former Service Station							Archive samples for vertical delineation, if necessary. Archive for vertical delineation, if necessary.	Archive Archive			Archive		Archive Archive		Archive Archive	Archi	A1
	MW-21	Direct Push	1274482	195911	20	3-5 Water Table	Lateral delineation of metals, PCB, PAH, TPH, and VOC exceedances in vadose soil at SB-31. Lateral delineation of metals, PCB, PAH, TPH, and VOC exceedances in saturated soil at SB-31. Archive samples for vertical delineation, if necessary.	Standard Archive		Standard Rush	Standard		Standard Rush		Standard Standard	Archive Archive	Archive
							Archive samples for vertical delineation, if necessary. Archive for vertical delineation, if necessary.	Archive Archive			Archive		Archive Archive		Archive Archive		
	MM 00	Direct Day	1074501	105000	20	3-5	Lateral delineation of metals, PCB, PAHs, and VOC exceedances in vadose soil at MW-13 and SB- 31. Nature and extent of contamination beneath fromer service station are activated and state of contamination beneath fromer services station are activated and the state of the state	Standard		Standard			Standard		Standard	Archive	Archive
	MW-22	Direct Push	1274531	195938	20	Water Table	31. Nature and extent of contamination beneath former service station area. Archive samples for vertical delineation, if necessary. Archive for vertical delineation, if necessary.	Archive Archive		Rush			Rush		Standard Archive	Archive	
	SG-1, SG-2	Temporary Soil Gas Vapor Pin	TBD	TBD		18-20 Sub-slab	Archive for vertical delineation, if necessary. Assess CVOC and petroleum vapor intrusion in tire shop/service station.	Archive		Archive Standard (APH)	Archive Standard		Archive		Archive		
	HA-03	Hand Auger	1274816	195828	3	0-1 2-3 0-1	Spatial distribution to assess surface soil quality for TBT and pesticides. Archive for vertical delineation, if necessary. Spatial distribution to assess surface soil quality for TBT and pesticides.	Archive Archive Archive	Rush Archive Rush					Rush Archive Rush			
 	HA-04 HA-05	Hand Auger Hand Auger	1274680 1274822	195850 195977	3	2-3 0-1	Archive for vertical delineation, if necessary. Spatial distribution to assess surface soil quality for TBT and pesticides.	Archive Archive	Archive Rush					Archive Rush			
	HA-06	Hand Auger	1274713	196004	3	2-3 0-1 2-3	Archive for vertical delineation, if necessary. Spatial distribution to assess surface soil quality for TBT and pesticides. Archive for vertical delineation, if necessary.	Archive Archive Archive	Archive Rush Archive					Archive Rush Archive			
	HA-07	Hand Auger	1274684	196116	3	0-1 2-3 Water Table	Spatial distribution to assess surface soil quality for TBT and pesticides. Archive for vertical delineation, if necessary. Characterize suturated zone near MW-09 (previously uncharacterized).	Archive Archive Standard	Rush Archive Rush	Rush	Rush	Rush	Rush	Rush Archive Rush	Standard	Archive	Archive
	MW-09D	Direct Push	1274884	195979	25	Screen Interval ⁽⁷⁾ 18-20	Cital actualizes acturated zone internity-op [previously unicital actualized]. Characterizes coren interval, if different from other sample intervals. Archive for vertical delineation, if necessary. Archive for vertical delineation, if necessary.	Standard Archive	Standard Archive	Standard Archive		Standard Archive	Standard Archive	Standard Archive	Standard Archive	Archive	
Boat Maintenance						0-1	Lateral delineation of metals, TBT, PCB, PAH, SVOC, and TPH exceedances in surface soil at MW-11.	Archive Standard	Archive Rush	Archive	Rush	Archive	Archive	Archive Rush	Archive Standard	Archive	Archive
Area	MW-11D	Direct Push	1274618	196226	25	3-5 Water Table Screen Interval ⁽⁷⁾	Archive samples for vertical delineation in vadose zone, if necessary. Vertical delineation of PCB and VOC exceedances in at MW-11. Characterize screen interval, if different from other sample intervals.	Archive Standard	Archive Standard	Archive Rush Standard		Standard	Archive Rush Standard	Archive Rush Standard	Archive Standard Standard	Archive Archive	
						13-15 18-20	Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary.	Archive Archive Archive	Archive Archive Archive	Archive Archive	Archive Archive	Archive Archive Archive	Archive Archive Archive	Archive Archive Archive	Archive Archive Archive		
	MW-19	Direct Push	1274702	195917	20	-	Samples at this location will be collected during the advancement of MW-19D. Assess surface soil to characterize direct contact pathways based on metals, TBT, PCB, PAH,										
						0-1 3-5	SVOC, and TPH exceedances in surface soil at SB-33 and SB-34. Assess pesticides in surface soil in previously uncharacterized portion of the property. Archive samples for vertical delineation, if necessary	Standard Archive	Rush	Rush	Rush	Rush	Rush	Rush Archive	Standard Archive	Archive	Archive
	MW-19D	Direct Push	1274703	195905	25	Water Table	Characterize saturated zone soil in central portion of boat maintenance area between SB-33 and SB-34. Characterize screen interval, if different from other sample intervals.	Standard Standard	Rush	Rush	Rush	Rush	Rush	Rush Standard	Standard Standard	Archive Archive	
						13-15 18-20	Archive samples for vertical delineation, if necessary. Archive samples for vertical delineation, if necessary.	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	Archive Archive	. 40/1146	
+	CB-02		1274675	196004		23-25	Archive samples for vertical delineation, if necessary. Assess erodible soil to characterize transport to stormwater-to-surface water sediment pathways, since 2021 fire, and analyze for LDW COCS.	Archive Standard*	Archive	Archive	Archive	Archive Standard*	Archive Standard	Archive	Archive Standard		Standard
Catch Basin Solids	CB-06		1274787	195957	-		Assess erodible soil to characterize transport to stormwater-to-surface water sediment pathways, since 2021 fire, and analyze for LDW COCs.	Standard*				Standard*	Standard		Standard		Standard
	SWRX-Pre		1275080	195804	-	-	Assess erodible soil to characterize transport to stormwater-to-surface water sediment pathways, since 2021 fire, and analyze for LDW COCs.	Standard*				Standard*	Standard		Standard		Standard

- Notes:

 (1) These are approximate locations for planning purposes. Actual investigation locations will be documented using a hand-held GPS unit during field work. Actual well locations will be surveyed by a licensed surveyor upon completion. Coordinates provided in NAD83 State Plan Washington North, feet.

 (2) Target sample pepths indicates the targeted range from which soil samples will be collected and submitted for laboratory analysis or archival. Depths are subject to change, based on field observations. Additional samples from each boring may be collected and/or archived based on field screening and observations at the time of drilling. Sample intervals are approximate: intervals care approximate intervals in a submitted for laboratory analysis in readed for lateral or vertical delineation. If field screening indications of contamination are present at the bottom of any boring, the boring will be extended until no evidence of contamination is observed to a maximum of an additional 10 feet below the Planned Exploration Depth; in this event, an additional sample will be collected from the bottom of the boring and submitted for laboratory analysis.

 (3) Medials SA, CQ, CQ, CQ, TP, By, IR, ZP. Medias Is be analyzed in catchbasis soldiss amples are As, CQ, CQ, CQ, TP, By, IR, ZP. Media Is be analyzed in catchbasis soldiss amples are As, CQ, CQ, CY, CP, By, IR, SZ. Medias Is Again to be analyzed in catchbasis soldiss amples are As and CQ, CQ, CP, CP, By, IR, SZ. Medias Is Again to be analyzed in catchbasis soldiss amples are As and CQ, CQ, CP, CP, By, IR, SZ. Medias Is Again to be analyzed in catchbasis soldiss amples are As and CQ, CQ, CP, CP, By, IR, SZ. Medias Is Again to be analyzed in catchbasis soldiss amples are As and CQ, CQ, CP, CP, By, IR, SZ. Medias Is Again to be analyzed in catchbasis soldiss amples are Again to the Again to the Again to the Again to the Again to the Again to the Again to the Again to the Again to the Again to the Again to the Again to the Again to the Again to the Again to
- for analysis will be selected from locations based on Site history including historical PCB data. Additional samples may be collected and archived.

 (5) At the Former Pond Area and Southwest Area, three surface soil samples will be selected in each of these two areas for dioxin/furan analysis in the highest chlorinated PCB concentrations (2) one surface soil sample with the highest chlorinated PCB concentrations (2) one surface soil sample with the highest chlorinated PCB concentrations (2) one surface soil sample with the highest chlorinated PCB concentrations (2) one surface soil sample with the highest field screening conducted during the advancement of soil borings SB-35 to SB-39 indicates a potential discrete point source of contamination, one new Alluvial Unit well will be installed enable the borings SB-35 to SB-39. Indicates a potential discrete point source of contamination, one new Alluvial Unit well (WM+100) well be installed collocated with Fill Unit well will be installed and analyzed during Phase 1 and if the proposed sample depths in this table are not within the well screen interval, an additional sample from the well screen interval will be collected and analyzed for all COPCs. TPH+ 1 total perticularly will be collected and analyzed for all COPCs. TPH+ 1 total perticularly will be compounds and the proposed sample depths in this table are not within the well screen interval, an additional sample from the well screen interval will be collected and analyzed for all COPCs. TPH+ 1 total perticularly will be collected and analyzed for all COPCs. TPH+ 1 total perticularly will be collected and analyzed for all COPCs. TPH+ 1 total perticularly will be collected and analyzed for all COPCs. TPH+ 1 total perticularly will be collected and analyzed for all COPCs. The proposed sample depths in this table are not within the well screen interval, an additional sample from the well screen interval will be collected and analyzed for all COPCs. The proposed sample will be controlled by the proposed sample wi

Table C.2. Proposed Phase 2 Field Investigation Sampling Matrix - Groundwater and Stormwater

Project No. 190293, South Park Marina, Seattle, Washington

													Analyse	s			
					Planned	As-Built or									PCBs		
		Groundwater	Propos Eastin		Exploration Depth	Planned Screen Interval			Tributyl				Low-Level	Organochlorine	PCBS		Dioxins /
Investigation Area Exp	ploration	Unit	Northin		(ft bgs)	(ft bgs) ⁽²⁾	Objective(s)	Metals ⁽³⁾	Tin	TPH	VOCs	SVOCs	PAHs (SIM)	Pesticides	Aroclors	TSS	Furans
N	MW-04	Fill	1275106 1	195755	-	6-11	Seasonal variation in groundwater quality, targeting dry season	Х	Х	Х	Х	Х	Х	Х	Х	Х	
М	MW-04D	Alluvial	1275109 1	195752	30	15.5-20.5	Current alluvium groundwater quality, best available detection limits; Groundwater flow around sheetpile wall (collocated with MW-04). Leaching of former pond contamination to groundwater and migration from pond area and groundwater-to-surface water sediment pathway.	x	x	x	x	x	x	x	х	x	
N	MW-05	Fill	1275103 1	95772	-	4.5-9.5	Seasonal variation in groundwater quality, targeting dry season	Х	Х	Х	Х	Х	х	х	Х	Х	Х
Former A&B Barrel Pond Area	MW-05D	Alluvial	1275104 1	195776	40	14-19	Current alluvium groundwater quality, best available detection limits; Groundwater flow around sheetpile wall (collocated with MW-04). Leaching of former pond contamination to groundwater and migration from pond area and groundwater-to-surface water sediment pathway.	х	x	x	x	x	x	x	х	x	
N	MW-06*	Fill	1275103 1	195787	-	3.5-8.5	Seasonal variation in groundwater quality, targeting dry season	Х	Х	Х	Х	Х	х	х	Х	Х	Х
M	/IW-06D*	Alluvial	1275105 1	195786	30	14-19	Current alluvium groundwater quality, best available detection limits; Groundwater flow around sheetpile wall (collocated with MW-04). Leaching of former pond contamination to groundwater and migration from pond area and groundwater-to-surface water sediment pathway.	x	×	x	x	x	x	x	x	x	
N	MW-16	Fill	1275065 1	195740	20	3.5-8.5	Lateral extent of groundwater contamination upgradient of the Fomer A&B Barrel Pond.	Х	Х	Х	Х	Х	х	х	Х	Х	
	TBD ⁽⁴⁾	Alluvial	TBD	TBD	30	15-20	Vertical extent of groundwater contamination; lateral extent of groundwater contamination downgradient of Southwest Property Area and upgradient of the Former A&B Barrel Pond.	х	х	х	х	х	х	x	x	х	
	MW-17	Fill		195724	20	6.5-11.5	Groundwater quality in Fill Unit along western property line	Х	Х	Х	Х	Х	Х	Х	Х	Х	
. ,	MW-18 MW-18D	Fill Alluvial		195656 195651	15 30	6.5-11.5 20-25	Groundwater quality in Fill Unit at SW property corner Groundwater quality in Alluvial Unit at SW property corner	X X	X X	X X	X X	X X	X	X X	X X	X X	
							Seasonal variation in groundwater quality. Resample wells sampled in Phase 1. Target dry										
Post Week and Historical	MW-07*	Fill		195833		4-9	season. Assess the groundwater-to-surface water sediment pathway.	х	х	Х	Х	Х	Х	х	х	Х	
Boat Manufacturing Area	MW-08*	Fill	1274977 1	195901	-	7-12	Seasonal variation in groundwater quality, targeting dry season Vertical extent of groundwater contamination in Alluvial Unit along shoreline and groundwater-	Х	Х	Х	Х	Х	х	Х	Х	х	
M	/W-08D*	Alluvial	1274991 1	195883	20	14-19	to-surface water sediment pathway.	x	x	х	х	Х	х	х	х	х	
N	MW-09*	Fill	1274877 1	195985	-	4.5-9.5	Seasonal variation in groundwater quality, targeting dry season. Collect sufficient sample volume over potentially multiple tide cycles for analysis of all analyte classes.	х	х	х	х	х	x	х	х	х	
M	/W-09D*	Alluvial	1274884 1	95979	20	14-19	Vertical extent of groundwater contamination in Alluvial Unit along shoreline and groundwater- to-surface water sediment pathway.	Х	х	х	х	Х	х	х	х	х	
N	MW-10*	Fill	1274735 1	96116		5-10	Seasonal variation in groundwater quality, targeting dry season. Collect sufficient sample volume over potentially multiple tide cycles for analysis of all analyte classes.	х	x	х	х	х	х	х	х	х	
	MW-11*	Fill	1274632 1	196211	-	5-10	Seasonal variation in groundwater quality, targeting dry season. Collect sufficient sample volume over potentially multiple tide cycles for analysis of all analyte classes.	х	х	х	х	х	х	х	х	х	
Boat Maintenance Area	/W-11D*	Alluvial	1274618 1	196226	25	20-25	Assess current Alluvial Unit groundwater quality at north end of SPM Property.	х	x	х	х	х	х	х	х	х	
N	MW-12	Fill		196055		7-12	Seasonal variation in groundwater quality, targeting dry season	Х	Х	Х	Х	Х	х	х	х	х	
	MW-14	Fill		195834		10.5-15.5	Seasonal variation in groundwater quality, targeting dry season	Х	Х	Х	Х	Х	х	х	Х	Х	
	MW-15	Fill		195789		8-13	Seasonal variation in groundwater quality, targeting dry season Fill Unit groundwater quality upgradient of shoreline, between MW-9 and MW-13. Assess	х	Х	Х	Х	Х	Х	X	Х	Х	
_ <u> </u>	MW-19	Fill	1274702 1	195917	20	4-9	potential PCE connection/migration between MW-13 and MW-09.	Х	Х	Х	Х	х	х	х	х	х	
M	MW-19D	Alluvial	1274703 1	195905	30	15-20	Alluvial Unit groundwater quality in the central portion of the Boat Maitenance Area. Assess potential PCE connection/migration between MW-13D and MW-09D.	x	x	х	х	х	х	х	х	х	
	MW-13	Fill		195882	-	10-15	Seasonal variation in groundwater quality, targeting dry season	Х	Х	Х	Х	Х	х	х	х	х	
	MW-13D	Alluvial		195888	40	23-28	Vertical extent of groundwater contamination Fill Unit groundwater quality - assess contribution of VOCs from off-site dry cleaner, lateral	Х	Х	Х	Х	Х	Х	Х	Х	Х	
Former Service Station	MW-20	Fill	1274521 1	195851	20	10-15	extent of groundwater contamination	Х	Х	Х	х	х	х	х	х	х	
Area	MW-21	Fill	1274482 1	195911	20	10-15	Fill Unit groundwater quality - assess contribution of VOCs from off-site dry cleaner, lateral extent of groundwater contamination	х	х	х	х	х	х	х	х	х	
N	MW-22	Fill	1274531 1	195938	20	10-15	Fill Unit groundwater quality - assess contribution of VOCs from off-site dry cleaner, lateral extent of groundwater contamination	х	х	х	х	х	х	х	x	х	
	CB-02		1274675 1	196004			Evaluate the stormwater-to-surface water sediment pathway, since 2021 fire, and analyze for LDW COCs.	x**				X**	х		х	х	
Stormwater	CB-06		1274787 1	195957			Evaluate the stormwater-to-surface water sediment pathway, since 2021 fire, and analyze for LDW COCs.	x**				X**	х		х	х	
	WRX-Pre		1275080 1	195804			Evaluate the stormwater-to-surface water sediment pathway, since 2021 fire, and analyze for LDW COCs.	x**				x**	х		х	х	x
SW	WRX-Post		1275061	195805	-	-	To demonstrate removal efficiency of the system for LDW COCs.	X**				X**	х		Х	х	

Notes:

(1) - These are actual locations for existing wells and approximate locations for Phase 2 wells for planning purposes. Actual well locations will be surveyed by a licensed surveyor upon completion. Coordinates provided in NAD83 State Plan Washington North, feet.

(2) - As-built well screen intervals are listed for existing wells (gray shading). Planned well screen intervals are listed for proposed wells (white), and will be adjusted based on the observed stratigraphic units at the time of drilling. Fill Unit monitoring wells will be screened from 5 feet above to the top of the Tidal Flat Unit. Alluvial Unit monitoring wells will be screened from 2 to 7 feet below the bottom of the Tidal Flat Unit. Well screen intervals may be adjusted to match well screen interval for other nearby monitoring wells within the same unit. E.g., the screen at MW-06D may be adjusted downwards greater than 2 feet below the bottom of the Tidal Flat Unit to match the screen interval for MW-05D.

(3) - Metals - As, Cd, Cu, Cr, Pb, Hg, Ni, Zn. For groundwater, metals samples will be collected for both total and dissolved concentrations. Metals to be analyzed in stormwater samples are As, Cd, Cu, Cr, Pb, Hg, and Zn only.

(4) - If field screening conducted during the advancement of soil borings SB-35 to SB-39 indicates a potential discrete point source of contamination, one new Alluvial Unit well will be installed near the boring location with the highest field screening indications to assess groundwater quality within the Southwest Property Area, and called MW-23D. Absent of field screening indications of contamination at soil borings SB-35 to SB-39, the new Alluvial Unit well (MW-16D) well be installed collocated with Fill Unit well MW-16.

TPH - total petroleum hydrocarbons, including gasoline-, diesel-, and oil-ranges

VOCs - volatile organic compounds

SVOCs - semivolatile organic compounds CVOCs - chlorinated volatile organic compounds

PAHs - polycyclic aromatic hydrocarbons

PCBs - polychlorinated biphenyls

TBT - tributyl tin

TSS - total suspended solids

One round of groundwater sampling is proposed. See Appendix C for additional details on sampling protocol, procedures, and analytical methods. Gray shading indicates existing monitoring well; other monitoring wells are proposed.

** Metals to be analyzed in stormwater samples are As, Cd, Cu, Cr, Pb, Hg, and Zn. SVOCs to be analyzed in stormwater samples are LDW COCs, as listed in Table 4 of the Source Control Review Memorandum (Aspect 2022), only. SWRX-Pre - Vault located downstream from CB-09, from which water is pumped into the StormwateRx system for treatment.

Table C.3. Analytical Methods, Sample Containers, Preservation, and Holding Times

Project No. 190293, South Park Marina, Seattle, Washington

Sample					No.		
Matrix	Analytical Parameter	Laboratory	Analytical Method	Sample Container	Containers	Preservation Requirements	Holding Time
	Metals Other than Mercury	Friedman&Bruya	EPA 6020B	4 or 8 ounce jar	1	None	6 Months
	Mercury	Friedman&Bruya	EPA 1631E	4 ounce jar	1	Cool 0 - 6°C	28 Days
န္	Tributyl Tins	Analytical Resources, Inc.	EPA 8270D-SIM	8 ounce jar	1	Cool 0 - 6°C	14 Days
Catch Basin Solids	Diesel-and Oil-Range TPH	Friedman&Bruya	NWTPH-Dx	8 ounce jar	1	Cool 0 - 6°C	14 Days to extract, 40 to analyze
Basir	Gasoline-Range TPH	Friedman&Bruya	NWTPH-Gx	Method 5035, 40 mL vials	4	Cool 0 - 6°C, Methanol or Freeze within 48 hours	14 Days
atch	VOCs (low level)	Friedman&Bruya	EPA 8260	Method 5035, 40 mL vials	4	Cool 0 - 6°C, Methanol or Freeze within 48 hours	14 Days
and C	SVOCs including PAHs (low level)	Friedman&Bruya	EPA 8270E	8 ounce jar	1	Cool 0 - 6°C	14 Days to extract, 40 to analyze
Soil and	Organochlorine Pesticides (low level)	Friedman&Bruya	EPA 8081	8 ounce jar	1	Cool 0 - 6°C	14 Days to extract, 40 to analyze
	PCB Aroclors (low level - 4 ug/kg)	Friedman&Bruya	EPA 8082	8 ounce jar	1	Cool 0 - 6°C	None
	PCB Congeners	Vista Analytical	EPA 1668	8 ounce jar	1	Cool 0 - 6°C	1 Year
	Chlorinated Dioxins/Furans by HRGC/HRMS	Vista Analytical	EPA 1613B	8 ounce amber jar	1	Freeze	1 Year
	Metals other than Mercury - Total	Friedman&Bruya	EPA 6020B/EPA 200.8	500 mL HDPE	1	pH <2 with HNO ₃ , Cool 0 - 6°C	6 Months
	Metals other than Mercury - Dissolved (field filtered)*	Friedman&Bruya	EPA 6020B/EPA 200.8	500 mL HDPE	1	pH <2 with HNO ₃ , Cool 0 - 6°C	6 Months
<u>te</u>	Total Mercury	Friedman&Bruya	EPA 1631E	100 mL glass amber	1	pH <2 with HCl, Cool 0 - 6°C	28 Days
×	Dissolved Mercury (field filtered)(low level)*	Friedman&Bruya	EPA 1631E	100 mL glass amber	1	pH <2 with HCl, Cool 0 - 6°C	28 Days
Stormwater	Tributyl Tins	Analytical Resources, Inc.	EPA 8270D-SIM	500 mL or 1L glass amber	2	Cool 0 - 6°C	7 Days
and 8	Diesel- and Oil-Range TPH	Friedman&Bruya	NWTPH-Dx	500 mL or 1L glass amber	1	Cool 0 - 6°C	7 days to extract, 40 to analyze
ē	Gasoline-Range TPH	Friedman&Bruya	NWTPH-Gx	40 mL vials	3	HCl to pH < 2.0, Cool 0 - 6°C	14 Days
٧af	VOCs	Friedman&Bruya	EPA 8260	40 mL vials	3	HCl to pH < 2.0, Cool 0 - 6°C	14 Days
Groundwater and	SVOCs including PAHs (low level)	Friedman&Bruya	EPA 8270E	1 L glass amber	2	Cool 0 - 6°C	7 Days, 40 to analyze
Ę	Organochlorine Pesticides (low level)	Friedman&Bruya	EPA 8081	1 L glass amber	2	Cool 0 - 6°C	7 Days, 40 to analyze
	PCB Aroclors (low level - 0.0035 ug/L)	Friedman&Bruya	EPA 8082	1 L glass amber	2	Cool 0 - 6°C	None
	Chlorinated Dioxins/Furans by HRGC/HRMS	Vista Analytical	EPA 1613B	1 L glass amber	2	Cool ≤ 6°C	1 Year
	TSS, Residue Non-Filterable	Friedman&Bruya	SM-2540D	500 mL HDPE	1	Cool 0 - 6°C	7 Days
Soil	VOCs (BTEX, Naphthalene, CVOCs) APH	Friedman&Bruya Friedman&Bruya	EPA TO15 MA-APH	1 L stainless steel silicone coated canister with	1	None	30 days
0, 0	Helium	Friedman&Bruya	ASTM D1946	flow regulator (150-200mL/min)			
Indoor/ Ambient Air	VOCs (BTEX, Naphthalene, CVOCs)	Friedman&Bruya	EPA TO15	6 L stainless steel silicone coated canister with	1	None	30 days
Inde Amk A	АРН	Friedman&Bruya	MA-APH	flow regulator (8 hour or 24 hour)	ı	None	30 days

Notes

 * If groundwater analyzed for dissolved metals is not field filtered, use unpreserved 500 mL HDPE.

EPA - United States Environmental Protection Agency

HCI - hydrochloric acid

HNO₃ - nitric acid

H₂SO₄ - sulfuric acid HDPE - high density polyethylene

CVAA - cold vapor atomic absorption spectroscopy

VOC - volatile organic compounds

SVOCs - semi-volatile organic compounds

CVOCs - chlorinated volatile organic compounds

PAHs - polycyclic aromatic hydrocarbons

BTEX - benzene, toluene, ethylbenzene, and xylenes

TPH - total petroleum hydrocarbons

APH - air-phase petroleum hydrocarbons

PCB - polychlorinated biphenyl

HRGC/HRMS - high-resolution gas chromatography/high-resolution mass spectrometry

SIM - secondary ion mass spectrometry

Plumb, 1981 - Plumb, R.H. Jr., Procedures for Handling and Chemical Analysis of Sediment and Water Samples, May 1981, USACE

Publication AD/A103788.

PSEP - Puget Sound Estuary Protocol

mL - milliliters L - liters

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Analyte Name	MRL	Lab Reporting Units	MRL (mg/kg)	Most Stringent Screening Level for Soil (mg/kg)	MDL ^(A)	LCS/LCS %R ^(A)	MS/MSD %R ^(A)	RPD (%)	Surrogate %R ^(A)
Metals (other than Mercury) by 602	0B (mg/kg) (Friedman & I	Bruya)						
Arsenic	0.2	mg/kg dry wt	2.00E-01	7.30E+00	0.133	80-120	70-130	20	
Cadmium	0.2	mg/kg dry wt	2.00E-01	7.70E-01	0.031	80-120	70-130	20	
Chromium	0.5	mg/kg dry wt	5.00E-01	4.82E+01	0.276	80-120	70-130	20	
Copper	1	mg/kg dry wt	1.00E+00	3.64E+01	0.156	80-120	70-130	20	
Lead	0.2	mg/kg dry wt	2.00E-01	5.00E+01	0.049	80-120	70-130	20	
Nickel	0.2	mg/kg dry wt	2.00E-01	4.80E+01	0.047	80-120	70-130	20	
Zinc	1	mg/kg dry wt	1.00E+00	8.51E+01	0.834	80-120	70-130	20	
Mercury by 1631E (mg/kg) (Friedma	an & Bruya)				•			
Mercury	0.025	mg/kg dry wt	2.50E-02	7.00E-02	0.0128	78-125	71-125	20	
Tributyl Tins by 8270D-SIM (ug/kg)	(Analytica	l Resources, Ir	nc.)						
Butyltin Ion	4.08	ug/kg dry wt	4.08E-03	na	1.89	30-160	30-160	30	-
Dibutyltin Ion	5.78	ug/kg dry wt	5.78E-03	na	1.73	30-160	30-160	30	-
Tetrabutyltin	5	ug/kg dry wt	5.00E-03	na	5	- 00 400	- 00 400	-	-
Tributyltin Ion Diesel- and Oil-Range Total Petrole	3.86	ug/kg dry wt	3.86E-03	1.11E-04 Dx (mg/kg) (Fried)	0.45	30-160	30-160	30	-
Diesel Range Organics	10	mg/kg dry wt	1.00E+01	2.60E+02	4.15	80-120	50-150	20	n/a
Motor Oil Range Organics	50	mg/kg dry wt	5.00E+01	2.60E+02	9.72	80-120	50-150	20	n/a
Gasoline-Range TPH by NWTPH-G		Friedman & Br	uya)						
Gasoline Range Organics	2	mg/kg dry wt		3.00E+01	0.796			-	
Volatile Organic Compounds (VOC					0.0000	04.404	04 440	00	
1,1,1,2-Tetrachloroethane	0.05	mg/kg dry wt	5.00E-02	1.87E+01	0.0009	64-121	31-143	20	n/a
1,1,1-Trichloroethane	0.002 0.05	mg/kg dry wt	2.00E-03	2.11E+01	0.0003 0.0009	62-131 64-121	10-156	20 20	n/a
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	0.05	mg/kg dry wt	5.00E-02 5.00E-03	1.87E+01 3.26E-04	0.0009	64-121	31-143 10-205	20	n/a <mark>n/a</mark>
1,1-Dichloroethane	0.002	mg/kg dry wt	2.00E-03	1.08E+02	0.0003	68-115	19-140	20	n/a
1,1-Dichloroethene	0.001	mg/kg dry wt	1.00E-03	1.41E+00	0.0003	47-128	10-160	20	n/a
1,1-Dichloropropene	0.05	mg/kg dry wt	5.00E-02	na	0.0012	69-128	17-140	20	n/a
1,2,3-Trichlorobenzene	0.25	mg/kg dry wt	2.50E-01	1.21E+01	0.0031	63-138	20-144	20	n/a
1,2,3-Trichloropropane	0.05	mg/kg dry wt	5.00E-02	2.73E-03	0.0023	61-137	25-144	20	n/a
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	0.01 0.05	mg/kg dry wt	1.00E-02 5.00E-02	1.88E-03 1.79E+02	0.0009 0.0005	64-135 76-125	22-142 10-182	20 20	n/a n/a
1,2-Dibromo-3-chloropropane	0.05	mg/kg dry wt	5.00E-02 5.00E-01	1.02E-01	0.0003	58-138	11-161	20	n/a
1,2-Dibromoethane (EDB)	0.005	mg/kg dry wt	5.00E-03	2.77E-01	0.0004	74-132	28-142	20	n/a
1,2-Dichlorobenzene	0.05	mg/kg dry wt	5.00E-02	2.99E-03	0.0008	76-121	31-132	20	n/a
1,2-Dichloroethane (EDC)	0.002	mg/kg dry wt	2.00E-03	2.37E-02	0.0007	56-135	12-160	20	n/a
1,2-Dichloropropane	0.05	mg/kg dry wt	5.00E-02	1.03E-03	0.0019	72-127	30-135	20	n/a
1,3,5-Trimethylbenzene	0.05	mg/kg dry wt	5.00E-02	1.80E+02	0.0009	76-126	18-149	20	n/a
1,3-Dichlorobenzene	0.05	mg/kg dry wt	5.00E-02	1.32E-03	0.0008	75-121	30-131	20	n/a
1,3-Dichloropropane	0.05	mg/kg dry wt	5.00E-02	8.84E+02	0.0016	72-130	31-137	20 20	n/a
1,4-Dichlorobenzene 2,2-Dichloropropane	0.05 0.05	mg/kg dry wt	5.00E-02 5.00E-02	8.07E-03	0.0009 0.0023	74-117 52-170	29-129 10-158	20	n/a n/a
2-Butanone (MEK)	0.05	mg/kg dry wt mg/kg dry wt	1.00E+00	na 4.80E+04	0.0023	30-197	19-147	20	n/a n/a
2-Chlorotoluene	0.05	mg/kg dry wt	5.00E+00	4.00E+04 4.14E+02	0.1421	74-121	31-134	20	n/a n/a
2-Hexanone	0.5	mg/kg dry wt	5.00E-01	4.00E+02	0.0090	33-152	15-166	20	n/a
4-Chlorotoluene	0.05	mg/kg dry wt	5.00E-02	na	0.0009	75-122	31-136	20	n/a
4-Methyl-2-pentanone	1	mg/kg dry wt	1.00E+00	6.40E+03	0.0152	45-145	24-155	20	n/a
Acetone	5	mg/kg dry wt	5.00E+00	7.20E+04	0.2249	52-141	10-163	20	n/a
Benzene	0.001	mg/kg dry wt	1.00E-03	5.58E-04	0.0002	71-118	29-129	20	n/a
Bromobenzene	0.05	mg/kg dry wt	5.00E-02	2.01E+02	0.0024	72-122	34-130	20	n/a
Bromodichloromethane	0.005	mg/kg dry wt	5.00E-03	8.92E-04	0.0010	57-126	23-155	20	n/a
Bromoform	0.05	mg/kg dry wt	5.00E-02	4.95E-03	0.0033	56-132	21-156	20	n/a
Bromomethane	0.1	mg/kg dry wt	1.00E-01	7.92E-02	0.0391	38-114	10-163	20	n/a
Carbon tetrachloride	0.005	mg/kg dry wt	5.00E-03	1.54E-04	0.0013	60-139	9-164	20	n/a
Chlorobenzene Chloroethane	0.05 0.1	mg/kg dry wt	5.00E-02 1.00E-01	1.02E-01	0.0006 0.0029	76-111 9-163	32-129 10-176	20 20	n/a n/a
Chloroform	0.1	mg/kg dry wt mg/kg dry wt	5.00E-01	na 5.24E-02	0.0029	66-120	21-145	20	n/a n/a
Chloromethane	0.05	mg/kg dry wt	5.00E-02 5.00E-01		0.0011	27-133	10-126	20	n/a
cis-1,2-Dichloroethene	0.001	mg/kg dry wt	1.00E-01	na na	0.0048	72-133	25-135	20	n/a n/a
,	0.001	mg/kg dry wt	1.00E-03 1.00E-02	na 3.76E-04	0.0003	67-122	28-144		
cis-1,3-Dichloropropene Dibromochloromethane	0.01	mg/kg dry wt	1.00E-02 1.00E-02	3.76E-04 7.01E-04	0.0019	55-121	28-144 28-150	20 20	n/a n/a
	0.01	mg/kg ury wt	1.001-02	7.01L-04	0.0020	00-121	20-100	20	II/a

				Maat Ctrin want					
		Lab		Most Stringent Screening					
		Reporting	MRL	Level for Soil		LCS/LCS	MS/MSD		Surrogate
Analyte Name	MRL	Units	(mg/kg)	(mg/kg)	MDL ^(A)	%R ^(A)	%R ^(A)	RPD (%)	%R ^(A)
Volatile Organic Compounds (VO	Cs) (low lev	el) by 8260 (mg	g/kg) (Friedm	nan & Bruya)					
Dichlorodifluoromethane	0.5	mg/kg dry wt	5.00E-01	1.12E+04	0.0026	10-146	10-142	20	n/a
Ethylbenzene	0.001	mg/kg dry wt	1.00E-03	1.03E-02	0.0003	64-123	32-137	20	n/a
Hexachlorobutadiene	0.01	mg/kg dry wt	1.00E-02	1.13E-05	0.0011	50-153	10-142	20	n/a
Hexane	0.25	mg/kg dry wt	2.50E-01	8.25E+02	0.0052	43-142	10-137	20	n/a
Isopropylbenzene	0.05	mg/kg dry wt	5.00E-02	1.73E+03	0.0008	76-127 78-122	31-142 34-136	20 20	n/a n/a
m,p-Xylene Methyl t-butyl ether (MTBE)	0.002 0.001	mg/kg dry wt mg/kg dry wt	2.00E-03 1.00E-03	na 5.56E+02	0.0005 0.0003	60-123	21-145	20	n/a n/a
	0.001	mg/kg dry wt	1.00E-03 1.00E-01	2.97E-02	0.0003	10-184	10-156	20	n/a
Methylene chloride n-Propylbenzene	0.05	mg/kg dry wt	5.00E-01	1.67E+03	0.0006	74-124	23-146	20	n/a
o-Xylene	0.001	mg/kg dry wt	1.00E-03	na	0.0002	77-124	33-134	20	n/a
p-lsopropyltoluene	0.05	mg/kg dry wt	5.00E-02	na	0.0007	70-132	21-149	20	n/a
sec-Butylbenzene	0.05	mg/kg dry wt	5.00E-02	1.52E+03	0.0007	71-130	23-145	20	n/a
Styrene	0.05	mg/kg dry wt	5.00E-02	3.00E+02	0.0010	74-126	35-137	20	n/a
tert-Butylbenzene	0.05	mg/kg dry wt	5.00E-02	1.60E+03	0.0006	73-130	30-137	20	n/a
Tetrachloroethene	0.001	mg/kg dry wt	1.00E-03	1.60E-03	0.0006	72-114	20-133	20	n/a
Toluene	0.001	mg/kg dry wt	1.00E-03	4.35E-02	0.0003	66-126	35-130	20	n/a
trans-1,2-Dichloroethene	0.002	mg/kg dry wt	2.00E-03	3.25E-01	0.0005	67-129	14-137	20	n/a
trans-1,3-Dichloropropene	0.01	mg/kg dry wt	1.00E-02	3.76E-04	0.0023	72-132	26-149	20	n/a
Trichloroethene	0.001	mg/kg dry wt	1.00E-03	2.66E-04	0.0005	63-121	21-139	20	n/a
Trichlorofluoromethane	0.5	mg/kg dry wt	5.00E-01	1.68E+04	0.0026	10-196	10-176	20	n/a
Vinyl chloride	0.001	mg/kg dry wt	1.00E-03	5.55E-05	0.0005	22-139	10-138	20	n/a
1,2-Dichloroethane-d4 Toluene-d8	n/a n/a	mg/kg dry wt mg/kg dry wt	n/a n/a	na na		n/a n/a	n/a n/a	n/a n/a	90-109 89-112
4-Bromofluorobenzene	n/a	mg/kg dry wt	n/a	na		n/a	n/a	n/a	84-115
Semivolatile Organic Compounds						TI/U	11/4	11/4	04 110
1,2,4-Trichlorobenzene	0.01	mg/kg dry wt	1.00E-02	1.88E-03	0.0009	64-135	22-142	20	n/a
1,2-Dichlorobenzene	0.05	mg/kg dry wt	5.00E-02	2.99E-03	0.0008047	76-121	31-132	20	n/a
1,2-Diphenylhydrazine	0.0025	mg/kg dry wt	2.50E-03	9.09E+00	0.0002	68-115	49-122	20	n/a
1,3-Dichlorobenzene	0.05	mg/kg dry wt	5.00E-02	1.32E-03	0.0008	75-121	30-131	20	n/a
1,4-Dichlorobenzene 1-Methylnaphthalene	0.05 0.0005	mg/kg dry wt mg/kg dry wt	5.00E-02 5.00E-04	8.07E-03 2.26E+00	0.0009 0.0001	74-117 66-107	29-129 37-119	20 20	n/a n/a
2,2'-Oxybis(1-Chloropropane)	0.0005	mg/kg dry wt	2.50E-03	3.33E-01	0.0001	58-97	50-150	20	n/a
2,4,5-Trichlorophenol	0.025	mg/kg dry wt	2.50E-02	6.98E-05	0.0000	67-117	20-139	20	n/a
2,4,6-Trichlorophenol	0.025	mg/kg dry wt	2.50E-02	4.01E-01	0.0016	65-116	15-140	20	n/a
2,4-Dichlorophenol	0.025	mg/kg dry wt	2.50E-02	4.34E-03	0.0010	67-109	24-130	20	n/a
2,4-Dimethylphenol	0.025	mg/kg dry wt	2.50E-02	2.27E-03	0.0024	53-119	38-124	20	n/a
2,4-Dinitrophenol	0.075	mg/kg dry wt	7.50E-02	2.87E-02	0.0018	10-233	10-135	20	n/a
2,4-Dinitrotoluene 2,6-Dinitrotoluene	0.0125 0.0125	mg/kg dry wt mg/kg dry wt	1.25E-02 1.25E-02	1.55E-04 6.54E-02	0.0002 0.0004	63-137 70-130	50-150 50-150	20 20	n/a n/a
2-Chloronaphthalene	0.0125	mg/kg dry wt	2.50E-02	2.77E-01	0.0004	67-109	42-117	20	n/a
2-Chlorophenol	0.025	mg/kg dry wt	2.50E-02	1.15E-02	0.0021	58-111	30-122	20	n/a
2-Methylnaphthalene	0.0005	mg/kg dry wt	5.00E-04	3.88E-02	0.0001	67-108	29-130	20	n/a
2-Methylphenol	0.025	mg/kg dry wt	2.50E-02	6.36E-03	0.0017	65-107	38-120	20	n/a
2-Nitroaniline	0.0125	mg/kg dry wt	1.25E-02	2.92E+02	0.0031	46-148	50-150	20	n/a
2-Nitrophenol	0.025	mg/kg dry wt	2.50E-02	na	0.0022	62-119	22-137	20	n/a
3,3'-Dichlorobenzidine	0.025	mg/kg dry wt	2.50E-02	na	0.0073	9-115	12-125	20	n/a
3-Methylphenol + 4-Methylphenol 3-Nitroaniline	0.05	mg/kg dry wt	5.00E-02	6.24E-02	0.0026 0.0010	67-109 43-133	39-121 36-110	20 20	n/a n/a
4,6-Dinitro-2-methylphenol	0.25 0.075	mg/kg dry wt mg/kg dry wt	2.50E-01 7.50E-02	na 7.28E-03	0.0010	51-152	10-148	20	n/a
4-Bromophenyl phenyl ether	0.0025	mg/kg dry wt	2.50E-03	na	0.0002	70-130	50-150	20	n/a
4-Chloro-3-methylphenol	0.025	mg/kg dry wt	2.50E-02	2.80E-02	0.0012	70-130	49-120	20	n/a
4-Chloroaniline	0.25	mg/kg dry wt	2.50E-01	9.60E-01	0.0684	10-136	23-111	20	n/a
4-Chlorophenyl phenyl ether	0.0025	mg/kg dry wt	2.50E-03	na	0.0002	70-130	50-150	20	n/a
4-Nitroaniline	0.25	mg/kg dry wt	2.50E-01	3.05E+01	0.0031	45-150	10-150	20	n/a
4-Nitrophenol Benzoic acid	0.075 0.125	mg/kg dry wt mg/kg dry wt	7.50E-02 1.25E-01	7.00E+00 1.69E-01	0.0026 0.0066	16-187 13-223	25-139 10-101	20 20	n/a n/a
Benzyl alcohol	0.125	mg/kg dry wt	2.50E-02	1.74E-02	0.0008	36-147	36-121	20	n/a n/a
Benzyl butyl phthalate	0.025	mg/kg dry wt	2.50E-02 2.50E-02	1.74E-02 1.82E-04	0.0028	67-119	50-121	20	n/a
Bis(2-chloroethoxy)methane	0.0025	mg/kg dry wt	2.50E-02	na	0.0024	65-108	37-121	20	n/a
Bis(2-chloroethyl) ether	0.0025	mg/kg dry wt	2.50E-03	2.18E-05	0.0004	35-131	35-117	20	n/a
Bis(2-ethylhexyl) phthalate	0.04	mg/kg dry wt	4.00E-02	5.12E-03	0.0036	59-116	45-130	20	n/a
Carbazole	0.0025	mg/kg dry wt	2.50E-03	na	0.0002	70-130	50-150	20	n/a
Dibenzofuran	0.0025	mg/kg dry wt	2.50E-03	2.92E-02	0.0006	63-117	44-120	20	n/a
Diethyl phthalate	0.025	mg/kg dry wt	2.50E-02	3.41E-02	0.0014	64-120	48-126	20	n/a

Company Comp										
Analyte Name MRL Units (Inits Units Units (Inits Units			Lab		Most Stringent					
Analyte Name				MDI			1 09/1 09	MS/MSD		Surrogate
Seminostatio Organic Compounds (SVOCs) (low level) by 82/06 (mg/kg) (Friedmans Broys)	An abda Nama					14D1 (A)			DDD (0()	%R ^(A)
Dimetry pribilitate							%R` ′	%R` ′	RPD (%)	%R` ′
Dis-puty phthalate							70.400	50.450	00	,
Dish-octyl phthalate			0 0 .						20	n/a
Hexachlorobatalene									20	n/a
Hexachlorocytopentadiene	· ·								20	n/a
Hexachlorocyclopentadine			0 0 .						20	n/a n/a
Hexachloroethane			0 0 .						20	n/a
Isophorone									20	n/a
Nitrobenzene									20	n/a
N-Nitrosodimethylamine									20	n/a
N-Nitroso-din-propylamine									20	n/a
Ne.Nitroscalphenylemine									20	n/a
Pentacliorophenol 0.0125 mg/kg dry wt 1.25E-0.2 4.79E-0.2 0.0025 4.7128 33-127 2.5									20	n/a
Phenol 0.025 mg/kg dry wt 2.50E-02 4.79E-02 0.0024 47-128 39-127 2 2-Fluorophenol n/a mg/kg dry wt na n/a n/									20	n/a
Pyrene	•								20	n/a
2-Flucrophenol n/a mg/kg dry wt na n/a n/a n/a n/benol-d6 n/a mg/kg dry wt na n/a									20	n/a
Nitrobenzene-d5									n/a	24-111
2-Fluorobipheny	ol-d6	n/a	mg/kg dry wt		na		n/a	n/a	n/a	37-116
2,4,6-Tribiromophenol	enzene-d5	n/a	mg/kg dry wt		na		n/a	n/a	n/a	38-117
Polycyclic Aromatic Hydrocarbons (PAHs) (Iow level) by 8270E (mg/kg) (Friedman & Bruya) Naphthalene 0.0005 mg/kg dry wt 5.00E-04 2.07E-03 0.00013 58-108 34-118 2 2 2 2 2 2 2 2 2					na		n/a		n/a	45-117
Policyclic Aromatic Hydrocarbons (PAHs) (low level) by 8270E (mg/kg) (Friedman & Bruya)		n/a	mg/kg dry wt		na		n/a	n/a	n/a	11-158
Naphthalene							n/a	n/a	n/a	50-124
Acenaphthene							•		1	
Acenaphthylene			0 0 ,						20	n/a
Anthracene									20	n/a
Benzo(a)anthracene	. ,								20	n/a
Benzo(a)pyrene									20	n/a
Benzo(b)filuoranthene	· /		00,						20	n/a
Benzo(g,h,i)perylene									20	n/a
Benzo(k)fluoranthene	• ,		0 0 ,						20	n/a
Chrysene			0 0 ,						20	n/a
Dibenz(a,h)anthracene									20	n/a
Fluoranthene									20	n/a
Fluorene										n/a
Indeno(1,2,3-cd)pyrene									20	n/a n/a
Phenanthrene							-	-	20	n/a n/a
Total cPAH TEQ									20	n/a
Organochlorine Pesticides (low level) by 8081 (mg/kg) (Friedman & Bruya) 4,4'-DDD 0.001 mg/kg dry wt 1.00E-03 3.64E-07 0.000168 54-137 26-155 2 4,4'-DDE 0.001 mg/kg dry wt 1.00E-03 7.63E-08 0.000129 70-130 41-118 2 4,4'-DDT 0.001 mg/kg dry wt 1.00E-03 8.14E-07 0.000155 25-169 39-123 2 Aldrin 0.0017 mg/kg dry wt 1.70E-03 2.01E-09 0.000080 63-124 44-121 2 alpha-BHC 0.0005 mg/kg dry wt 5.00E-04 9.82E-08 0.000117 58-117 45-111 2 beta-BHC 0.0005 mg/kg dry wt 5.00E-04 9.82E-08 0.000110 66-120 49-109 2 cis-Chlordane 0.0005 mg/kg dry wt 5.00E-04 5.29E-06 0.000115 70-130 44-120 2 delta-BHC 0.0005 mg/kg dry wt 5.00E-04 6.00E+00 0.000111 67-124 39-114 <td></td> <td>0.0003</td> <td>mg/kg dry wt</td> <td></td> <td></td> <td>0.00004</td> <td>70-100</td> <td>30-130</td> <td>20</td> <td>11/a</td>		0.0003	mg/kg dry wt			0.00004	70-100	30-130	20	11/a
4,4'-DDD 0.001 mg/kg dry wt 1.00E-03 3.64E-07 0.000168 54-137 26-155 2 4,4'-DDE 0.001 mg/kg dry wt 1.00E-03 7.63E-08 0.000129 70-130 41-118 2 4,4'-DDT 0.001 mg/kg dry wt 1.00E-03 8.14E-07 0.000155 25-169 39-123 2 Aldrin 0.0017 mg/kg dry wt 1.70E-03 2.01E-09 0.000080 63-124 44-121 2 alpha-BHC 0.0005 mg/kg dry wt 5.00E-04 9.82E-08 0.000117 58-117 45-111 2 beta-BHC 0.0005 mg/kg dry wt 5.00E-04 3.40E-06 0.000140 66-120 49-109 2 cis-Chlordane 0.0005 mg/kg dry wt 5.00E-04 5.29E-06 0.000115 70-130 44-120 2 delta-BHC 0.0005 mg/kg dry wt 5.00E-04 6.00E+00 0.000111 67-124 39-114 2 Dieldrin 0.001 mg/kg dry wt		vel) by 808	1 (ma/ka) (Frie							
4,4'-DDE 0.001 mg/kg dry wt yd, dry wt						0.000168	54-137	26-155	20	n/a
4,4'-DDT 0.001 mg/kg dry wt 1.00E-03 8.14E-07 0.000155 25-169 39-123 2 Aldrin 0.0017 mg/kg dry wt 1.70E-03 2.01E-09 0.00080 63-124 44-121 2 alpha-BHC 0.0005 mg/kg dry wt 5.00E-04 9.82E-08 0.000117 58-117 45-111 2 beta-BHC 0.0005 mg/kg dry wt 5.00E-04 3.40E-06 0.000140 66-120 49-109 2 cis-Chlordane 0.0005 mg/kg dry wt 5.00E-04 5.29E-06 0.000115 70-130 44-120 2 delta-BHC 0.0005 mg/kg dry wt 5.00E-04 6.00E+00 0.000111 67-124 39-114 2 Dieldrin 0.001 mg/kg dry wt 1.00E-03 3.09E-08 0.000124 70-130 45-130 2 Endosulfan II 0.001 mg/kg dry wt 5.00E-04 6.13E-05 0.000116 42-140 40-135 2 Endrin 0.001 mg/kg dry wt 1.00E-03 1.01E-01 0.000180 39-148 40-141 2 <td></td> <td></td> <td>0 0 .</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20</td> <td>n/a</td>			0 0 .						20	n/a
Aldrin 0.0017 mg/kg dry wt alpha-BHC 1.70E-03 2.01E-09 0.000080 63-124 44-121 2 beta-BHC 0.0005 mg/kg dry wt blata 5.00E-04 9.82E-08 0.000117 58-117 45-111 2 cis-Chlordane 0.0005 mg/kg dry wt blata 5.00E-04 3.40E-06 0.000140 66-120 49-109 2 delta-BHC 0.0005 mg/kg dry wt blata 5.00E-04 6.00E+00 0.000111 67-124 39-114 2 Dieldrin 0.001 mg/kg dry wt blata 5.00E-04 6.00E+00 0.000124 70-130 45-130 2 Endosulfan I 0.0005 mg/kg dry wt blata 5.00E-04 6.13E-05 0.000111 62-124 45-124 2 Endosulfan II 0.001 mg/kg dry wt blata 1.00E-03 6.13E-05 0.000161 42-140 40-135 2 Endrin 0.001 mg/kg dry wt blata 1.00E-03 1.01E-01 0.000180 39-148 40-141 2 Endrin Alde									20	n/a
alpha-BHC 0.0005 mg/kg dry wt 5.00E-04 9.82E-08 0.000117 58-117 45-111 2 beta-BHC 0.0005 mg/kg dry wt 5.00E-04 3.40E-06 0.000140 66-120 49-109 2 cis-Chlordane 0.0005 mg/kg dry wt 5.00E-04 5.29E-06 0.000115 70-130 44-120 2 delta-BHC 0.0005 mg/kg dry wt 5.00E-04 6.00E+00 0.000111 67-124 39-114 2 Dieldrin 0.001 mg/kg dry wt 1.00E-03 3.09E-08 0.000124 70-130 45-130 2 Endosulfan I 0.0005 mg/kg dry wt 5.00E-04 6.13E-05 0.000111 62-124 45-124 2 Endosulfan Sulfate 0.001 mg/kg dry wt 1.00E-03 1.01E-01 0.000180 39-148 40-141 2 Endrin 0.001 mg/kg dry wt 1.00E-03 1.24E-04 0.000246 56-147 50-140 2 Endrin Ketone 0.001 m			0 0 .						20	n/a
beta-BHC cis-Chlordane 0.0005 mg/kg dry wt cis-Chlordane 0.0005 mg/kg dry wt didler 5.00E-04 5.29E-06 0.000140 66-120 delta-BHC 49-109 2 delta-BHC 2.00E-04 0.00015 mg/kg dry wt didler 5.00E-04 0.00E+00 0.000115 70-130 delta-120 delta-BHC 3.40E-06 0.000115 70-130 delta-120 delta-BHC 3.00E-04 0.00E+00 0.000111 delta-120 delta-120 delta-120 delta-120 delta-BHC 3.00E-04 0.00E+00 0.000111 delta-120 del	BHC		0 0 1						20	n/a
cis-Chlordane 0.0005 mg/kg dry wt delta-BHC 5.00E-04 5.29E-06 0.000115 70-130 44-120 2 Dieldrin 0.0001 mg/kg dry wt 5.00E-04 6.00E+00 0.000111 67-124 39-114 2 Endosulfan I 0.0001 mg/kg dry wt 1.00E-03 3.09E-08 0.000124 70-130 45-130 2 Endosulfan II 0.001 mg/kg dry wt 5.00E-04 6.13E-05 0.000111 62-124 45-124 2 Endosulfan Sulfate 0.001 mg/kg dry wt 1.00E-03 1.01E-01 0.000180 39-148 40-141 2 Endrin 0.001 mg/kg dry wt 1.00E-03 2.22E-05 0.000166 56-147 50-140 2 Endrin Aldehyde 0.001 mg/kg dry wt 1.00E-03 1.24E-04 0.000246 21-135 35-139 2 Endrin Ketone 0.001 mg/kg dry wt 1.00E-03 na 0.000257 46-134 41-147 2									20	
delta-BHC 0.0005 mg/kg dry wt 5.00E-04 6.00E+00 0.0001111 67-124 39-114 2 Dieldrin 0.001 mg/kg dry wt 1.00E-03 3.09E-08 0.000124 70-130 45-130 2 Endosulfan I 0.0005 mg/kg dry wt 5.00E-04 6.13E-05 0.000111 62-124 45-124 2 Endosulfan Sulfate 0.001 mg/kg dry wt 1.00E-03 1.01E-01 0.000180 39-148 40-141 2 Endrin 0.001 mg/kg dry wt 1.00E-03 2.22E-05 0.000166 56-147 50-140 2 Endrin Aldehyde 0.001 mg/kg dry wt 1.00E-03 1.24E-04 0.000246 21-135 35-139 2 Endrin Ketone 0.001 mg/kg dry wt 1.00E-03 na 0.000257 46-134 41-147 2									20	n/a n/a
Dieldrin 0.001 Endosulfan I mg/kg dry wt Endosulfan II 1.00E-03 mg/kg dry wt Endosulfan II 3.09E-08 mg/kg dry wt Endosulfan II 0.0001 mg/kg dry wt Endosulfan II 0.001 mg/kg dry wt Endosulfan II 0.001 mg/kg dry wt Endosulfan II 0.001 mg/kg dry wt Endosulfan II 0.001 mg/kg dry wt Endosulfan II 0.001 mg/kg dry wt Indicate In									20	n/a
Endosulfan I 0.0005 mg/kg dry wt Endosulfan II 0.0001 mg/kg dry wt mg/kg dry wt mg/kg dry wt 5.00E-04 6.13E-05 0.000111 62-124 45-124 2 Endosulfan Sulfate 0.001 mg/kg dry wt 1.00E-03 1.01E-01 0.000180 39-148 40-141 2 Endrin 0.001 mg/kg dry wt 1.00E-03 2.22E-05 0.000166 56-147 50-140 2 Endrin Aldehyde 0.001 mg/kg dry wt 1.00E-03 1.24E-04 0.000246 21-135 35-139 2 Endrin Ketone 0.001 mg/kg dry wt 1.00E-03 na 0.000257 46-134 41-147 2									20	n/a
Endosulfan II 0.001 mg/kg dry wt 1.00E-03 6.13E-05 0.000161 42-140 40-135 2 Endosulfan Sulfate 0.001 mg/kg dry wt 1.00E-03 1.01E-01 0.000180 39-148 40-141 2 Endrin 0.001 mg/kg dry wt 1.00E-03 2.22E-05 0.000166 56-147 50-140 2 Endrin Aldehyde 0.001 mg/kg dry wt 1.00E-03 1.24E-04 0.000246 21-135 35-139 2 Endrin Ketone 0.001 mg/kg dry wt 1.00E-03 na 0.000257 46-134 41-147 2									20	n/a
Endosulfan Sulfate 0.001 mg/kg dry wt 1.00E-03 1.01E-01 0.000180 39-148 40-141 2 Endrin 0.001 mg/kg dry wt 1.00E-03 2.22E-05 0.000166 56-147 50-140 2 Endrin Aldehyde 0.001 mg/kg dry wt 1.00E-03 1.24E-04 0.000246 21-135 35-139 2 Endrin Ketone 0.001 mg/kg dry wt 1.00E-03 na 0.000257 46-134 41-147 2									20	n/a
Endrin 0.001 mg/kg dry wt Endrin Aldehyde 1.00E-03 2.22E-05 0.000166 56-147 50-140 2 Endrin Aldehyde 0.001 mg/kg dry wt 1.00E-03 1.24E-04 0.000246 21-135 35-139 2 Endrin Ketone 0.001 mg/kg dry wt 1.00E-03 na 0.000257 46-134 41-147 2									20	n/a
Endrin Aldehyde 0.001 mg/kg dry wt mg/kg dry wt mg/kg dry wt 1.00E-03 1.24E-04 0.000246 21-135 35-139 2 Endrin Ketone 0.001 mg/kg dry wt 1.00E-03 na 0.000257 46-134 41-147 2									20	n/a
Endrin Ketone 0.001 mg/kg dry wt 1.00E-03 na 0.000257 46-134 41-147 2									20	n/a
									20	n/a
	a-BHC (Lindane)		mg/kg dry wt	5.00E-04					20	n/a
	· · · · · · · · · · · · · · · · · · ·								20	n/a
									20	n/a
	the state of the s									
			0 0 .						20 20	n/a
									20	n/a n/a
									n/a	41-106
	•								n/a	32-150

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				M 4 O4-1 4					
		Lab		Most Stringent Screening					
		Reporting	MRL	Level for Soil		LCS/LCS	MS/MSD		Surrogate
Analyte Name	MRL	Units	(mg/kg)	(mg/kg)	MDL ^(A)	%R ^(A)	%R ^(A)	RPD (%)	%R ^(A)
Polychlorinated biphenyls (PCB) A	roclors (lo	w level) by 808	2 (mg/kg) (F	riedman & Bruya)		•			
Aroclor 1016	0.004	mg/kg dry wt	4.00E-03	na	0.0007	55-137	29-125	20	n/a
Aroclor 1221	0.004	mg/kg dry wt	4.00E-03	na	0.0007	55-137	29-125	20	n/a
Aroclor 1232	0.004	mg/kg dry wt	4.00E-03	na	0.0007	55-137	29-125	20	n/a
Aroclor 1242	0.004	mg/kg dry wt	4.00E-03	na	0.0007	55-137	29-125	20	n/a
Aroclor 1248 Aroclor 1254	0.004 0.004	mg/kg dry wt	4.00E-03 4.00E-03	na	0.0007 0.0007	55-137 55-137	29-125 29-125	20 20	n/a n/a
Aroclor 1260	0.004	mg/kg dry wt mg/kg dry wt	4.00E-03 4.00E-03	na na	0.0007	51-150	25-125	20	n/a
Aroclor 1260 Aroclor 1262	0.004	mg/kg dry wt	4.00E-03	na	0.0008	51-150	25-137	20	n/a
Aroclor 1268	0.004	mg/kg dry wt	4.00E-03	na	0.0008	51-150	25-137	20	n/a
Total PCB Aroclors		3 3 7	3.60E-02	5.49E-07					
TCMX	n/a	mg/kg dry wt	n/a	na		n/a	n/a	n/a	23-127
Polychlorinated Biphenyl (PCB) Co	ongeners b	y 1668 (mg/kg)	(Vista Analy	rtical)		•	•		
PCB-1	0.564	pg/g dry wt	5.64E-07	na					
PCB-2	0.719	pg/g dry wt	7.19E-07	na					
PCB-3 PCB-4/10	0.473 0.845	pg/g dry wt	4.73E-07 8.45E-07	na					
PCB-4/10 PCB-5/8	1.08	pg/g dry wt pg/g dry wt	1.08E-06	na na					
PCB-6	1.24	pg/g dry wt	1.24E-06	na					
PCB-7/9	0.75	pg/g dry wt	7.50E-07	na					
PCB-11	9.05	pg/g dry wt	9.05E-06	na					
PCB-12/13	1.04	pg/g dry wt	1.04E-06	na					
PCB-14	0.417	pg/g dry wt	4.17E-07	na					
PCB-15	0.624	pg/g dry wt	6.24E-07	na					
PCB-16/32 PCB-17	1.43 0.669	pg/g dry wt pg/g dry wt	1.43E-06 6.69E-07	na na					
PCB-18	1.38	pg/g dry wt	1.38E-06	na					
PCB-19	1.11	pg/g dry wt	1.11E-06	na					
PCB-20/21/33	2.51	pg/g dry wt	2.51E-06	na					
PCB-22	0.845	pg/g dry wt	8.45E-07	na					
PCB-23	1.08	pg/g dry wt	1.08E-06	na					
PCB-24/27	1.2	pg/g dry wt	1.20E-06	na					
PCB-25 PCB-26	0.89 0.655	pg/g dry wt pg/g dry wt	8.90E-07 6.55E-07	na na					
PCB-28	3.05	pg/g dry wt	3.05E-06	na					
PCB-29	0.982	pg/g dry wt	9.82E-07	na					
PCB-30	0.638	pg/g dry wt	6.38E-07	na					
PCB-31	1.99	pg/g dry wt	1.99E-06	na					
PCB-34	1.28	pg/g dry wt	1.28E-06	na					
PCB-35	1.15	pg/g dry wt	1.15E-06	na					
PCB-36 PCB-37	1.08 0.464	pg/g dry wt pg/g dry wt	1.08E-06 4.64E-07	na na					
PCB-38	0.823	pg/g dry wt	8.23E-07	na					
PCB-39	1.34	pg/g dry wt	1.34E-06	na					
PCB-40	1.11	pg/g dry wt	1.11E-06	na					
PCB-41/64/71/72	3.07	pg/g dry wt	3.07E-06	na					
PCB-42/59	0.825	pg/g dry wt	8.25E-07	na					
PCB-43/49 PCB-44	1.94 1.18	pg/g dry wt pg/g dry wt	1.94E-06 1.18E-06	na na					
PCB-45	0.603	pg/g dry wt	6.03E-07	na					
PCB-46	0.544	pg/g dry wt	5.44E-07	na					
PCB-47	1.5	pg/g dry wt	1.50E-06	na					
PCB-48/75	0.712	pg/g dry wt	7.12E-07	na					
PCB-50	0.769	pg/g dry wt	7.69E-07	na					
PCB-51	0.804	pg/g dry wt	8.04E-07	na					
PCB-52/69 PCB-53	1.46	pg/g dry wt	1.46E-06	na					
PCB-53	1.08 0.639	pg/g dry wt pg/g dry wt	1.08E-06 6.39E-07	na na					
PCB-55	0.039	pg/g dry wt	5.16E-07	na					
PCB-56/60	1.18	pg/g dry wt	1.18E-06	na					
PCB-57	0.859	pg/g dry wt	8.59E-07	na					
PCB-58	0.83	pg/g dry wt	8.30E-07	na					
PCB-61/70	1.49	pg/g dry wt	1.49E-06	na					
PCB-62	1.23	pg/g dry wt	1.23E-06	na					
PCB-63 PCB-65	0.532 0.982	pg/g dry wt pg/g dry wt	5.32E-07 9.82E-07	na na					
I OD-00	0.862	Ibala ara	3.02E-01	ııd			ı		

				Most Stringent					
		Lab		Screening					
		Reporting	MRL	Level for Soil		LCS/LCS	MS/MSD		Surrogate
Analyte Name	MRL	Units	(mg/kg)	(mg/kg)	MDL ^(A)	%R ^(A)	%R ^(A)	RPD (%)	%R ^(A)
Polychlorinated Biphenyl (PCB) Co	ongeners b	y 1668 (mg/kg)	(Vista Analy	rtical)					
PCB-66/76	0.566	pg/g dry wt	5.66E-07	na					
PCB-67	1.13	pg/g dry wt	1.13E-06	na					
PCB-68	0.773	pg/g dry wt	7.73E-07	na					
PCB-73	0.581	pg/g dry wt	5.81E-07	na					
PCB-74	0.903	pg/g dry wt	9.03E-07	na					
PCB-77	0.799	pg/g dry wt	7.99E-07	na					
PCB-78 PCB-79	0.628	pg/g dry wt	6.28E-07	na					
PCB-79	1.16 1.07	pg/g dry wt	1.16E-06 1.07E-06	na					
PCB-81	0.659	pg/g dry wt pg/g dry wt	6.59E-07	na na					
PCB-82	1.24	pg/g dry wt	1.24E-06	na					
PCB-83	0.45	pg/g dry wt	4.50E-07	na					
PCB-84/92	0.876	pg/g dry wt	8.76E-07	na					
PCB-85/116	1.99	pg/g dry wt	1.99E-06	na					
PCB-86	1.27	pg/g dry wt	1.27E-06	na					
PCB-87/117/125	1.47	pg/g dry wt	1.47E-06	na					
PCB-88/91	2.27	pg/g dry wt	2.27E-06	na					
PCB-89	0.786	pg/g dry wt	7.86E-07	na					
PCB-90/101	0.449	pg/g dry wt	4.49E-07	na					
PCB-93	1.35	pg/g dry wt	1.35E-06	na					
PCB-94	0.844	pg/g dry wt	8.44E-07	na					
PCB-95/98/102 PCB-96	2.28	pg/g dry wt	2.28E-06	na					
PCB-96	0.796 1.06	pg/g dry wt pg/g dry wt	7.96E-07 1.06E-06	na na					
PCB-99	1.06	pg/g dry wt	1.06E-06 1.34E-06	na na					
PCB-100	0.617	pg/g dry wt	6.17E-07	na					
PCB-103	0.576	pg/g dry wt	5.76E-07	na					
PCB-104	0.838	pg/g dry wt	8.38E-07	na					
PCB-105	0.497	pg/g dry wt	4.97E-07	na					
PCB-106/118	1.45	pg/g dry wt	1.45E-06	na					
PCB-107/109	0.766	pg/g dry wt	7.66E-07	na					
PCB-108/112	1.65	pg/g dry wt	1.65E-06	na					
PCB-110	0.876	pg/g dry wt	8.76E-07	na					
PCB-111/115	1.62	pg/g dry wt	1.62E-06	na					
PCB-113	1.17	pg/g dry wt	1.17E-06	na					
PCB-114	0.801	pg/g dry wt	8.01E-07	na					
PCB-119 PCB-120	0.56 0.932	pg/g dry wt	5.60E-07 9.32E-07	na na					
PCB-120	1.12	pg/g dry wt pg/g dry wt	9.32E-07 1.12E-06	na					
PCB-122	0.516	pg/g dry wt	5.16E-07	na					
PCB-123	0.551	pg/g dry wt	5.51E-07	na					
PCB-124	0.944	pg/g dry wt	9.44E-07	na					
PCB-126	0.475	pg/g dry wt	4.75E-07	na					
PCB-127	0.709	pg/g dry wt	7.09E-07	na					
PCB-128/162	1.28	pg/g dry wt	1.28E-06	na					
PCB-129	0.89	pg/g dry wt	8.90E-07	na					
PCB-130	0.941	pg/g dry wt	9.41E-07	na					
PCB-131/133	0.901	pg/g dry wt	9.01E-07	na					
PCB-132/161	0.905	pg/g dry wt	9.05E-07	na					
PCB-134/143	1.04	pg/g dry wt	1.04E-06	na					
PCB-135	0.709	pg/g dry wt	7.09E-07	na					
PCB-136 PCB-137	1.22 0.525	pg/g dry wt pg/g dry wt	1.22E-06 5.25E-07	na					
PCB-137 PCB-138/163/164	1.32	pg/g dry wt	1.32E-06	na na					
PCB-139/149	2.36	pg/g dry wt	2.36E-06	na					
PCB-140	0.828	pg/g dry wt	8.28E-07	na					
PCB-141	0.632	pg/g dry wt	6.32E-07	na					
PCB-142	1.26	pg/g dry wt	1.26E-06	na					
PCB-144	0.942	pg/g dry wt	9.42E-07	na					
PCB-145	1.29	pg/g dry wt	1.29E-06	na					
PCB-146/165	0.875	pg/g dry wt	8.75E-07	na					
PCB-147	1.22	pg/g dry wt	1.22E-06	na					
PCB-148	0.937	pg/g dry wt	9.37E-07	na					
PCB-150	0.561	pg/g dry wt	5.61E-07	na					
PCB-151	0.692	pg/g dry wt	6.92E-07	na					

Lab										
Analyte Name					Most Stringent					
Mark Mark Mark Mark Sunits Complete Mark M				MDI	•		1 08/1 08	Me/Men		Surrogata
Popular Popu	Analysis Name	MDI				MDI (A)			DDD (0/)	Surrogate
Fig. 1-12	· · · · · · · · · · · · · · · · · · ·					MDL, ,	%R` /	%R` ′	RPD (%)	%R` ′
PCB-153							1	I	l I	
PCB-154										
PCB-155		-								
PCB-156										
PCB-157										
PGB-159 0.882 pg/g dry wt 8.82E-07 na										
PCB-159										
PCB-166										
PCB-167										
PCB-196			100)							
PCB-170	PCB-168	0.594	pg/g dry wt	5.94E-07	na					
PCB-171	PCB-169	0.731	pg/g dry wt	7.31E-07	na					
PCB-172	PCB-170	0.575	pg/g dry wt	5.75E-07	na					
PCB-173	PCB-171	1.2		1.20E-06	na					
PCB-174	=									
PCB-175										
PCB-176										
PCB-177										
PCB-178										
PCB-179			pg/g dry wt							
PCB-180										
PCB-181										
PCB-182/187										
PCB-183										
PCB-184										
PCB-185										
PCB-186										
PCB-188										
PCB-189										
PCB-190										
PCB-192	PCB-190	0.89		8.90E-07	na					
PCB-193	PCB-191	0.681	pg/g dry wt	6.81E-07	na					
PCB-194	PCB-192	0.632	pg/g dry wt	6.32E-07	na					
PCB-196/203 2.5 pg/g dry wt 2.50E-06 na		0.669	pg/g dry wt	6.69E-07	na					
PCB-196/203										
PCB-197 0.73 pg/g dry wt pg/g dry										
PCB-198 2.52 pg/g dry wt pg/g dry										
PCB-199										
PCB-200 1.06 pg/g dry wt 1.06E-06 na -										
PCB-201 1.21 pg/g dry wt pg/g dry										
PCB-202 1.09 pg/g dry wt pg/g dry										
PCB-204										
PCB-205 0.826 pg/g dry wt pg/g dr										
PCB-206										
PCB-207 PCB-208 PCB-209 PCB-209 1.83 Pg/g dry wt 1.83E-06 PCB-209 1.83 Pg/g dry wt 1.83E-06 PCB-209 1.83 Pg/g dry wt 1.83E-06 PCB-209 1.83 Pg/g dry wt 1.83E-06 PCB-209 1.76E-04 PCB-209 1.76E-04 PCB-209 1.76E-04 PCB-209 1.76E-04 PCB-209 1.76E-04 PCB-209 PCB-209 1.83E-06 PCB-209										
PCB-208 PCB-209 PCB-208 PCB-209 PCB-208 PCB-209 PCB-208 PCB-208 PCB-209 PCB-208 PCB-209 PCB-208 PCB-209 PCB-208 PCB-209 PCB-208 PCB-209 PCB-208 PCB-209 PCB-208 PCB-209 PCB-208 PCB-209 PCB-208 PCB-209 PCB-20										
PCB-209										
Total PCB congeners	PCB-209									
Chlorinated Dioxin/Furans by 1613B (mg/kg) (Vista Analytical) 2,3,7,8-TCDF 0.5 pg/g dry wt 5.00E-07 na 0.256 70-130 30 2,3,7,8-TCDD 0.5 pg/g dry wt 5.00E-07 na 0.273 70-130 30 1,2,3,7,8-PeCDF 2.5 pg/g dry wt 2.50E-06 na 0.724 70-130 30 2,3,4,7,8-PeCDF 2.5 pg/g dry wt 2.50E-06 na 0.736 70-130 30 1,2,3,7,8-PeCDD 2.5 pg/g dry wt 2.50E-06 na 0.608 70-130 30 1,2,3,4,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.764 70-130 30 1,2,3,6,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.764 70-130 30 1,2,3,6,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na <td< td=""><td>Total PCB congeners</td><td></td><td>, ,</td><td></td><td>5.49E-07</td><td></td><td></td><td></td><td></td><td></td></td<>	Total PCB congeners		, ,		5.49E-07					
2,3,7,8-TCDF 0.5 pg/g dry wt 5.00E-07 na 0.256 70-130 30 2,3,7,8-TCDD 0.5 pg/g dry wt 5.00E-07 na 0.273 70-130 30 1,2,3,7,8-PeCDF 2.5 pg/g dry wt 2.50E-06 na 0.724 70-130 30 2,3,4,7,8-PeCDF 2.5 pg/g dry wt 2.50E-06 na 0.736 70-130 30 1,2,3,7,8-PeCDD 2.5 pg/g dry wt 2.50E-06 na 0.608 70-130 30 1,2,3,4,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.764 70-130 30 1,2,3,6,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.764 70-130 30 1,2,3,4,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.765 70-130 30	Total Dioxin-like PCB TEQ			6.99E-08	1.37E-09					
2,3,7,8-TCDD 0.5 pg/g dry wt 5.00E-07 na 0.273 70-130 30 1,2,3,7,8-PeCDF 2.5 pg/g dry wt 2.50E-06 na 0.724 70-130 30 2,3,4,7,8-PeCDF 2.5 pg/g dry wt 2.50E-06 na 0.608 70-130 30 1,2,3,4,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.608 70-130 30 1,2,3,6,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.764 70-130 30 2,3,4,6,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.764 70-130 30 1,2,3,7,8,9-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.765 70-130 30 1,2,3,7,8,9-HxCDD 2.5 pg/g dry wt 2.50E-06 na 0.737 70-130 30 1,2,3,6,7,8-HxCDD 2.5 pg/g dry wt 2.50E-06 na 0.668 70-130 30 1,2,3,6,7,8-HxCDD 2.5 pg/g dry wt 2.50E-06 na 0.668		BB (mg/kg)		al)						
1,2,3,7,8-PeCDF 2.5 pg/g dry wt 2.50E-06 na 0.724 70-130 30 2,3,4,7,8-PeCDF 2.5 pg/g dry wt 2.50E-06 na 0.736 70-130 30 1,2,3,7,8-PeCDD 2.5 pg/g dry wt 2.50E-06 na 0.608 70-130 30 1,2,3,4,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.764 70-130 30 1,2,3,6,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.924 70-130 30 2,3,4,6,7,8-HxCDF 2.5 pg/g dry wt 2.50E-06 na 0.765 70-130 30 1,2,3,7,8,9-HxCDD 2.5 pg/g dry wt 2.50E-06 na 0.737 70-130 30 1,2,3,4,7,8-HxCDD 2.5 pg/g dry wt 2.50E-06 na 0.71 70-130 30 1,2,3,7,8,9-HxCDD 2.5 pg/g dry wt 2.50E-06 na 0.668										
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1,2,3,7,8,9-HxCDD 2.5 pg/g dry wt 2.50E-06 na 0.694 70-130 30										
TLZ.3.4.0.7.0-FDGDF 1 Z.3 TDQ/Q Q[V WL Z 30F-00 T DA 1 DAM 7 /U-150 T KD	1,2,3,4,6,7,8-HpCDF		pg/g dry wt	2.50E-06	na	0.889	70-130		30	

Table C.5. Measurement Quality Objectives for Soil and Catch Basin Solids Samples

Project No. 190293, South Park Marina, Seattle, Washington

Analyte Name	MRL	Lab Reporting Units	MRL (mg/kg)	Most Stringent Screening Level for Soil (mg/kg)	MDL ^(A)	LCS/LCS %R ^(A)	MS/MSD %R ^(A)	RPD (%)	Surrogate %R ^(A)
Chlorinated Dioxin/Furans by 1613	B (mg/kg)	(Vista Analytic	al)						
1,2,3,4,7,8,9-HpCDF	2.5	pg/g dry wt	2.50E-06	na	0.765	70-130		30	
1,2,3,4,6,7,8-HpCDD	2.5	pg/g dry wt	2.50E-06	na	0.655	70-130		30	
OCDF	5	pg/g dry wt	5.00E-06	na	1.51	70-130		30	
OCDD	5	pg/g dry wt	5.00E-06	na	1.85	70-130		30	
Total chlorinated dioxins			3.78E-06	2.00E-06					
Total chlorinated furans			1.93E-06	2.00E-06					
Total dioxin/furan TEQ			5.70E-06	5.20E-06					

Notes:

(A) – Based on current laboratory control criteria. Some values may vary slightly between instruments and can be subject to change as the laboratory updates the charted values periodically.

%R – percent recovery

LCS/LCSD - laboratory control samples and laboratory control sample duplicate

MDL - method detection limit

MRL - method reporting limit

MS/MSD - Matrix Spike and Matrix Spike Duplicate

na - screening level not available

RPD – relative percent difference

(--) - No value identified

TEQ - total toxic equvalent concentration calculated in accordance with MTCA.

mg/kg -- milligram per kilogram

ug/kg -- microgram per kilogram

pg/g -- picrogram per gram

Red highlight indicates that the MRL is higher than the most stringent screening level.

Table C.6. Measurement Quality Objectives for Water Samples Project No. 190293, South Park Marina, Seattle, Washington

	1			T			ı		
Analyte Name	MRL	Lab Reporting Units	MRL (μg/L)	Most Stringent PCUL for Non- Potable Water (μg/L)	MDL ^(A)	LCS/LCS %R ^(A)	MS/MSD %R ^(A)	RPD (%)	Surrogate %R ^(A)
Metals (other than Mercury) by 60						,,,,	70.1	11. 2 (70)	,,,,
Arsenic	0.5	ug/L	5.00E-01	8.00E+00	0.078	80-120	70-130	20	
Cadmium	0.2	ug/L ug/L	2.00E-01	1.19E+00	0.058	80-120	70-130	20	
Chromium	0.5	ug/L ug/L	5.00E-01	na	0.036	80-120	70-130	20	
	0.5	-	5.00E-01	3.10E+00	0.276	80-120	70-130	20	 I
Copper		ug/L							 I
Lead	0.2	ug/L	2.00E-01	5.60E+00	0.057	80-120	70-130	20	
Nickel	0.2	ug/L	2.00E-01	8.20E+00	0.051	80-120	70-130	20	
Zinc	0.5	ug/L	5.00E-01	8.10E+01	0.241	80-120	70-130	20	
Total and Dissolved Mercury by 1						1	1		
Mercury	0.0008	ug/L	8.00E-04	2.50E-02	0.000615	78-125	71-125	20	
Tributyl Tins by 8270D-SIM (ug/L)					0.0050	00.400	00.400	00	
Butyltin Ion	0.006	ug/L	6.00E-03	na	0.0058	30-160 30-160	30-160 30-160	30	-
Dibutyltin Ion Tetrabutyltin	0.0077 0.03	ug/L ug/L	7.70E-03 3.00E-02	na na	0.0069 0.03	30-160	30-160	30 30	-
Tributyltin Ion	0.0052	ug/L ug/L	5.20E-03	4.27E-06	0.0022	30-160	30-160	30	_
Diesel- and Oil-Range Total Petro					riedman 8		00 100	- 50	
Diesel-Range Organics	50	ug/L	5.00E+01	5.00E+02	5.33	63-142	50-150	20	n/a
Motor Oil-Range Organics	250	ug/L	2.50E+02	5.00E+02	36.76	63-142	50-150	20	n/a
Gasoline-Range TPH by NWTPH-0	Gx (ug/L) (F	riedman & E	Bruya)						
Gasoline-Range Organic	100	ug/L	1.00E+02	8.00E+02	15.4	69-134	50-150	20	n/a
Bromofluorobenzene	n/a	ug/L	n/a	na		n/a	n/a	20	50-132
Volatile Organic Compounds (VO					0.050	70.400	50.450		,
1,1,1,2-Tetrachloroethane	1	ug/L	1.00E+00	7.11E+00	0.058	70-130	50-150	20	n/a
1,1,1-Trichloroethane	1	ug/L	1.00E+00 1.00E+00	5.45E+03	0.007	70-130	50-150	20 20	n/a
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	1 0.5	ug/L ug/L	5.00E+00	7.11E+00 9.00E-01	0.058 0.087	70-130 70-130	50-150 50-150	20	n/a n/a
1,1-Dichloroethane	1	ug/L ug/L	1.00E+00	1.10E+01	0.007	70-130	50-150	20	n/a
1,1-Dichloroethene	1	ug/L	1.00E+00	1.30E+02	0.000	70-130	50-150	20	n/a
1,1-Dichloropropene	1	ug/L	1.00E+00	na	0.060	70-130	50-150	20	n/a
1,2,3-Trichlorobenzene	1	ug/L	1.00E+00	7.26E+03	0.036	70-130	50-150	20	n/a
1,2,3-Trichloropropane	1	ug/L	1.00E+00	6.77E+00	0.068	70-130	50-150	20	n/a
1,2,4-Trichlorobenzene	1	ug/L	1.00E+00	9.64E-01	0.053	70-130	50-150	20	n/a
1,2,4-Trimethylbenzene	1	ug/L	1.00E+00	2.39E+02	0.039	70-130	50-150	20	n/a
1,2-Dibromo-3-chloropropane	10	ug/L	1.00E+01	4.23E-02	0.072	70-130	50-150	20	n/a
1,2-Dibromoethane (EDB)	0.2	ug/L	2.00E-01	2.96E-01	0.022	70-130	50-150	20	n/a
1,2-Dichlorobenzene	1	ug/L	1.00E+00	4.48E+00	0.038	70-130	50-150	20	n/a
1,2-Dichloroethane (EDC)	0.2	ug/L	2.00E-01	3.48E+00	0.051	70-130	50-150	20	n/a
1,2-Dichloropropane	1	ug/L	1.00E+00	3.10E+00	0.133	70-130	50-150	20	n/a
1,3,5-Trimethylbenzene	1	ug/L	1.00E+00	1.67E+02	0.017	70-130	50-150	20	n/a
1,3-Dichlorobenzene	1	ug/L	1.00E+00	2.00E+00	0.052	70-130	50-150	20	n/a
1,3-Dichloropropane	1	ug/L	1.00E+00	2.46E+06	0.057	70-130	50-150	20	n/a
1,4-Dichlorobenzene	1	ug/L	1.00E+00	4.96E+00	0.040	70-130	50-150	20	n/a
2,2-Dichloropropane	1	ug/L	1.00E+00	na	0.137	70-130	50-150	20	n/a
2-Butanone (MEK)	20	ug/L	2.00E+01	1.71E+06	5.789	17-154	50-150	20	n/a
2-Chlorotoluene	1	ug/L	1.00E+00	6.18E+05	0.039	70-130	50-150	20	n/a
2-Hexanone	10	ug/L	1.00E+01	7.26E+03	0.247	45-138	50-150	20	n/a
4-Chlorotoluene	1	ug/L	1.00E+00	na	0.033	70-130	50-150	20	n/a
4-Methyl-2-pentanone	10	ug/L	1.00E+01	4.66E+05	0.474	68-130	50-150	20	n/a
Acetone	50	ug/L	5.00E+01	3.38E+08	7.684	10-140	50-150	20	n/a
Benzene	0.35	ug/L	3.50E-01	1.60E+00	0.017	70-130	50-150	20	n/a
Bromobenzene	1	ug/L ug/L	1.00E+00	6.33E+02	0.017	70-130	50-150	20	n/a
Bromodichloromethane	0.5	ug/L ug/L	5.00E-01	1.37E+00	0.061	70-130	50-150	20	n/a
Bromoform	5	ug/L	5.00E+00	1.20E+01	0.091	69-138	50-150	20	n/a
Bromomethane	5	ug/L	5.00E+00	1.09E+01	1.853	56-197	50-150	20	n/a
Carbon tetrachloride	0.2	ug/L	2.00E-01	3.50E-01	0.061	70-130	50-150	20	n/a
Chlorobenzene	1	ug/L	1.00E+00	2.00E+02	0.042	70-130	50-150	20	n/a
Chloroethane	1	ug/L	1.00E+00	1.47E+04	0.220	70-130	50-150	20	n/a
Chloroform	1	ug/L	1.00E+00	1.18E+00	0.049	70-130	50-150	20	n/a
Chloromethane	10	ug/L	1.00E+01	1.53E+02	0.367	70-142	50-150	20	n/a
cis-1,2-Dichloroethene	1	ug/L	1.00E+00	3.59E+05	0.015	70-130	50-150	20	n/a

Table C.6

Table C.6. Measurement Quality Objectives for Water Samples Project No. 190293, South Park Marina, Seattle, Washington

	I			 					
Analyte Name	MRL	Lab Reporting Units	MRL (µg/L)	Most Stringent PCUL for Non- Potable Water (μg/L)	MDL ^(A)	LCS/LCS %R ^(A)	MS/MSD %R ^(A)	RPD (%)	Surrogate %R ^(A)
Volatile Organic Compounds (VO								()	
cis-1,3-Dichloropropene	0.4	ug/L	4.00E-01	1.20E+00	0.058	69-131	50-150	20	n/a
Dibromochloromethane	0.5	ug/L	5.00E-01	2.20E+00	0.051	60-148	50-150	20	n/a
Dibromomethane	1	ug/L	1.00E+00	8.64E+01	0.043	70-130	50-150	20	n/a
Dichlorodifluoromethane	1	ug/L	1.00E+00	4.24E+00	0.152	46-206	50-150	20	n/a
Ethylbenzene Hexachlorobutadiene	0.2	ug/L	1.00E+00	2.10E+01 1.00E-02	0.016 0.095	70-130 70-130	50-150 50-150	20	n/a n/a
Hexane	5	ug/L ug/L	2.00E-01 5.00E+00	4.08E+00	0.095	54-136	50-150	20 20	n/a
Isopropylbenzene	1	ug/L ug/L	1.00E+00	9.07E+02	0.124	70-130	50-150	20	n/a
m,p-Xylene	2	ug/L	2.00E+00	na	0.030	70-130	50-150	20	n/a
Methyl t-butyl ether (MTBE)	1	ug/L	1.00E+00	8.01E+02	0.004	70-130	50-150	20	n/a
Methylene chloride	5	ug/L	5.00E+00	1.00E+02	1.769	43-134	50-150	20	n/a
n-Propylbenzene	1	ug/L	1.00E+00	2.27E+03	0.027	70-130	50-150	20	n/a
o-Xylene	1	ug/L	1.00E+00	na	0.011	70-130	50-150	20	n/a
p-Isopropyltoluene	1	ug/L	1.00E+00	na	0.042	70-130	50-150	20	n/a
sec-Butylbenzene	1	ug/L	1.00E+00	9.40E+05	0.031	70-130	50-150	20	n/a
Styrene	1	ug/L	1.00E+00	8.17E+03	0.048	70-130	50-150	20	n/a
tert-Butylbenzene	1	ug/L	1.00E+00	1.24E+06	0.021	70-130	50-150	20	n/a
Tetrachloroethene	1	ug/L	1.00E+00	2.90E+00	0.023	70-130	50-150	20	n/a
Toluene	1	ug/L	1.00E+00	1.02E+02	0.018	70-130	50-150	20	n/a
trans-1,2-Dichloroethene	1	ug/L	1.00E+00	7.68E+01	0.021	70-130	50-150	20	n/a
trans-1,3-Dichloropropene	0.4	ug/L	4.00E-01	1.20E+00	0.063	70-130	50-150	20	n/a
Trichloroethene	0.5	ug/L	5.00E-01	7.00E-01	0.032	70-130	50-150	20	n/a
Trichlorofluoromethane	1 0.02	ug/L	1.00E+00 2.00E-02	1.19E+02 1.80E-01	0.063 0.017	70-130	50-150	20 20	n/a
Vinyl chloride 1,2-Dichloroethane-d4	0.02 n/a	ug/L ug/L	2.00E-02 n/a	1.80E-01 na	0.017	70-130 n/a	50-150 n/a	n/a	n/a 85-117
Toluene-d8	n/a	ug/L ug/L	n/a	na na		n/a	n/a	n/a	88-112
4-Bromofluorobenzene	n/a	ug/L	n/a	na		n/a	n/a	n/a	90-111
Semivolatile Organic Compounds	(SVOCs) (8270E (ug	/L) (Friedman &	Bruya)				
1,2,4-Trichlorobenzene	1	ug/L	1.00E+00	9.64E-01	0.053	70-130	50-150	20	n/a
1,2-Dichlorobenzene	1	ug/L	1.00E+00	4.48E+00	0.038	70-130	50-150	20	n/a
1,2-Diphenylhydrazine 1,3-Dichlorobenzene	0.1 1	ug/L	1.00E-01 1.00E+00	na 2.00E+00	0.017 0.052	70-130 70-130	50-150 50-150	20 20	n/a n/a
1,4-Dichlorobenzene	1	ug/L ug/L	1.00E+00 1.00E+00	4.96E+00	0.032	70-130	50-150	20	n/a n/a
1-Methylnaphthalene	0.1	ug/L	1.00E-01	8.04E+02	0.004	67-97	50-150	20	n/a
2,2'-Oxybis(1-Chloropropane)	0.1	ug/L	1.00E-01	9.00E+02	0.029	66-88	50-150	20	n/a
2,4,5-Trichlorophenol	1	ug/L	1.00E+00	3.70E-02	0.108	45-115	50-150	20	n/a
2,4,6-Trichlorophenol	1	ug/L	1.00E+00	6.00E+02	0.102	34-119	50-150	20	n/a
2,4-Dichlorophenol	1	ug/L	1.00E+00	1.00E+01	0.081	46-105	50-150	20	n/a
2,4-Dimethylphenol 2,4-Dinitrophenol	1 3	ug/L	1.00E+00 3.00E+00	2.91E+00 1.00E+02	0.150 1.210	23-105 10-171	50-150 50-150	20 20	n/a
2,4-Dinitrotoluene	0.5	ug/L ug/L	5.00E+00	1.80E-01	0.063	70-171	50-150	20	n/a <mark>n/a</mark>
2,6-Dinitrotoluene	0.5	ug/L ug/L	5.00E-01	7.49E+01	0.054	70-134	50-150	20	n/a
2-Chloronaphthalene	0.1	ug/L	1.00E-01	1.00E+02	0.018	70-130	50-150	20	n/a
2-Chlorophenol	1	ug/L	1.00E+00	1.70E+01	0.071	33-89	50-150	20	n/a
2-Methylnaphthalene	0.1	ug/L	1.00E-01	1.40E+01	0.004	68-98	50-150	20	n/a
2-Methylphenol	1	ug/L	1.00E+00	1.07E+01	0.061	28-65	50-150	20	n/a
2-Nitrophanal	0.5 1	ug/L	5.00E-01 1.00E+00	7.35E+05	0.131 0.118	51-146 45-115	50-150	20 20	n/a
2-Nitrophenol 3,3'-Dichlorobenzidine	1	ug/L ug/L	1.00E+00 1.00E+00	na 3.30E-03	0.118	70-130	50-150 50-150	20	n/a <mark>n/a</mark>
3-Methylphenol + 4-Methylphenol	2	ug/L	2.00E+00	1.06E+02	0.107	23-55	50-150	20	n/a
3-Nitroaniline	10	ug/L	1.00E+01	na	0.178	42-134	50-150	20	n/a
4,6-Dinitro-2-methylphenol	3	ug/L	3.00E+00	7.00E+00	0.149	22-141	50-150	20	n/a
4-Bromophenyl phenyl ether	0.1	ug/L	1.00E-01	na	0.016	70-130	50-150	20	n/a
4-Chloro-3-methylphenol	1	ug/L	1.00E+00	3.60E+01	0.097	50-98	50-150	20	n/a
4-Chloroaniline	10	ug/L	1.00E+01	2.40E+03	0.104	40-141	50-150	20	n/a
4-Chlorophenyl phenyl ether	0.1	ug/L	1.00E-01	na 1.06E+05	0.015 0.293	70-130	50-150	20	n/a
4-Nitroaniline 4-Nitrophenol	10 3	ug/L ug/L	1.00E+01 3.00E+00	1.06E+05 na	0.293	42-150 10-46	50-150 50-150	20 20	n/a n/a
Benzoic acid	5	ug/L ug/L	5.00E+00	5.89E+02	4.488	10-40	50-150	20	n/a
Benzyl alcohol	1	ug/L	1.00E+00	5.64E+01	0.064	14-82	50-150	20	n/a
Benzyl butyl phthalate	1	ug/L	1.00E+00	1.30E-02	0.130	61-124	50-150	20	n/a
Bis(2-chloroethoxy)methane	0.1	ug/L	1.00E-01	na	0.020	70-130	50-150	20	n/a

Table C.6

Table C.6. Measurement Quality Objectives for Water Samples Project No. 190293, South Park Marina, Seattle, Washington

Lab Reporting Units MRL Most Stringent PCUL for Non-Potable Water (μg/L) MDL MD	%R ^(A) 50-150 50-150 50-150 50-150 50-150 50-150 50-150	20 20 20 20 20 20 20 20	Surrogate %R ^(A) n/a n/a n/a
Lab Reporting MRL PCUL for Non-Potable Water (μg/L) MDL (A) MDL (A) MRL (μg/L) MDL (A) MD	%R ^(A) 50-150 50-150 50-150 50-150 50-150 50-150 50-150	20 20 20 20 20 20	%R ^(A) n/a n/a
Name Name	%R ^(A) 50-150 50-150 50-150 50-150 50-150 50-150 50-150	20 20 20 20 20 20	%R ^(A) n/a n/a
Analyte Name MRL Units (μg/L) (μg/L) MDL (A) %R (A) Semivolatile Organic Compounds (SVOCs) (low level) by 8270E (ug/L) (Friedman & Bruya) Bis(2-chloroethyl) ether 0.1 ug/L 1.00E-01 6.00E-02 0.023 44-118 Bis(2-ethylhexyl) phthalate 1.6 ug/L 1.60E+00 4.60E-02 0.241 57-124 Carbazole 0.1 ug/L 1.00E-01 na 0.018 70-130 Dibenzofuran 0.1 ug/L 1.00E-01 3.09E+00 0.030 60-115 Diethyl phthalate 1 ug/L 1.00E+00 9.26E+01 0.074 70-130 Dimethyl phthalate 1 ug/L 1.00E+00 5.90E+01 0.100 70-130 Di-n-butyl phthalate 1 ug/L 1.00E+00 8.00E+00 0.075 49-130 Di-n-octyl phthalate 1 ug/L 1.00E+00 2.31E+00 0.153 45-135	50-150 50-150 50-150 50-150 50-150 50-150 50-150	20 20 20 20 20	%R ^(A) n/a n/a
Bis(2-chloroethyl) ether 0.1 ug/L 1.00E-01 6.00E-02 0.023 44-118 Bis(2-ethylhexyl) phthalate 1.6 ug/L 1.60E+00 4.60E-02 0.241 57-124 Carbazole 0.1 ug/L 1.00E-01 na 0.018 70-130 Dibenzofuran 0.1 ug/L 1.00E-01 3.09E+00 0.030 60-115 Diethyl phthalate 1 ug/L 1.00E+00 9.26E+01 0.074 70-130 Dimethyl phthalate 1 ug/L 1.00E+00 5.90E+01 0.100 70-130 Di-n-butyl phthalate 1 ug/L 1.00E+00 8.00E+00 0.075 49-130 Di-n-octyl phthalate 1 ug/L 1.00E+00 2.31E+00 0.153 45-135	50-150 50-150 50-150 50-150 50-150 50-150	20 20 20	n/a
Bis(2-chloroethyl) ether 0.1 ug/L 1.00E-01 6.00E-02 0.023 44-118 Bis(2-ethylhexyl) phthalate 1.6 ug/L 1.60E+00 4.60E-02 0.241 57-124 Carbazole 0.1 ug/L 1.00E-01 na 0.018 70-130 Dibenzofuran 0.1 ug/L 1.00E-01 3.09E+00 0.030 60-115 Diethyl phthalate 1 ug/L 1.00E+00 9.26E+01 0.074 70-130 Dimethyl phthalate 1 ug/L 1.00E+00 5.90E+01 0.100 70-130 Di-n-butyl phthalate 1 ug/L 1.00E+00 8.00E+00 0.075 49-130 Di-n-octyl phthalate 1 ug/L 1.00E+00 2.31E+00 0.153 45-135	50-150 50-150 50-150 50-150 50-150 50-150	20 20 20	n/a
Carbazole 0.1 ug/L 1.00E-01 na 0.018 70-130 Dibenzofuran 0.1 ug/L 1.00E-01 3.09E+00 0.030 60-115 Diethyl phthalate 1 ug/L 1.00E+00 9.26E+01 0.074 70-130 Dimethyl phthalate 1 ug/L 1.00E+00 5.90E+01 0.100 70-130 Di-n-butyl phthalate 1 ug/L 1.00E+00 8.00E+00 0.075 49-130 Di-n-octyl phthalate 1 ug/L 1.00E+00 2.31E+00 0.153 45-135	50-150 50-150 50-150 50-150 50-150	20 20	
Dibenzofuran 0.1 ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	50-150 50-150 50-150 50-150	20	n/a
Diethyl phthalate 1 ug/L ug/L ug/L 1.00E+00 9.26E+01 0.074 70-130 Dimethyl phthalate 1 ug/L 1.00E+00 5.90E+01 0.100 70-130 Di-n-butyl phthalate 1 ug/L 1.00E+00 8.00E+00 0.075 49-130 Di-n-octyl phthalate 1 ug/L 1.00E+00 2.31E+00 0.153 45-135	50-150 50-150 50-150		n/o
Dimethyl phthalate 1 ug/L ug/L 1.00E+00 5.90E+01 0.100 70-130 Di-n-butyl phthalate 1 ug/L 1.00E+00 8.00E+00 0.075 49-130 Di-n-octyl phthalate 1 ug/L 1.00E+00 2.31E+00 0.153 45-135	50-150 50-150	20	n/a n/a
Di-n-butyl phthalate 1 ug/L 1.00E+00 8.00E+00 0.075 49-130 2.31E+00 0.153 45-135	50-150	20	n/a
, ,		20	n/a
Hexachlorobenzene 0.1 ug/l 1.00F-01 5.00F-06 0.033 70-130		20	n/a
		20	n/a
Hexachlorobutadiene 0.2 ug/L 2.00E-01 1.00E-02 0.095 70-130		20 20	n/a
Hexachlorocyclopentadiene 0.3 ug/L 3.00E-01 1.00E+00 0.074 34-126 Hexachloroethane 0.1 ug/L 1.00E-01 2.00E-02 0.020 54-94	50-150 50-150	20	n/a n/a
Isophorone 0.1 ug/L 1.00E-01 1.10E+02 0.013 67-114	50-150	20	n/a
Nitrobenzene 0.1 ug/L 1.00E-01 1.00E+02 0.042 65-103	50-150	20	n/a
N-Nitrosodimethylamine 0.1 ug/L 1.00E-01 3.40E-01 0.010 11-36	50-150	20	n/a
N-Nitroso-di-n-propylamine 0.1 ug/L 1.00E-01 5.80E-02 0.012 70-130		20	n/a
N-Nitrosodiphenylamine 0.1 ug/L 1.00E-01 5.54E-01 0.016 70-130		20	n/a
Pentachlorophenol 0.5 ug/L 5.00E-01 2.00E-03 0.235 28-130 Phenol 1 ug/L 1.00E+00 1.01E+02 0.044 10-27	50-150 50-150	20 20	n/a n/a
Trieffol	n/a	n/a	11/a 11-65
Terphenyl-d14	n/a	n/a	50-150
2,4,6-Tribromophenol n/a ug/L n/a na n/a	n/a	n/a	10-140
2-Fluorobiphenyl n/a ug/L n/a na n/a	n/a	n/a	44-108
2-Fluorophenol n/a ug/L n/a na n/a	n/a	n/a	11-65
Nitrobenzene-d5 n/a ug/L n/a na n/a Polycyclic Aromatic Hydrocarbons (PAHs) (low level) by 8270E (ug/L) (Friedman & Bruya)	n/a	n/a	50-150
Naphthalene 0.1 ug/L 1.00E-01 1.40E+00 0.005 66-94	50-150	20	n/a
Acenaphthene 0.01 ug/L 1.00E-02 5.34E+00 0.005 70-130		20	n/a
Acenaphthylene 0.01 ug/L 1.00E-02 na 0.004 70-130	50-150	20	n/a
Anthracene 0.01 ug/L 1.00E-02 2.15E+00 0.003 70-130	50-150	20	n/a
Benz(a)anthracene 0.01 ug/L 1.00E-02 1.60E-04 0.003 70-130		20	n/a
Benzo(a)pyrene 0.01 ug/L 1.00E-02 1.60E-05 0.002 70-130		20	n/a
Benzo(b)fluoranthene 0.01 ug/L 1.00E-02 1.60E-04 0.004 62-130 Benzo(g,h,i)perylene 0.02 ug/L 2.00E-02 na 0.005 70-130		20 20	n/a n/a
Benzo(k)fluoranthene 0.01 ug/L 1.00E-02 1.60E-03 0.003 70-130		20	n/a
Chrysene 0.01 ug/L 1.00E-02 1.60E-02 0.003 70-130		20	n/a
Dibenz(a,h)anthracene 0.01 ug/L 1.00E-02 1.60E-05 0.004 70-130	50-150	20	n/a
Fluoranthene 0.01 ug/L 1.00E-02 1.82E+00 0.005 70-130		20	n/a
Fluorene 0.01 ug/L 1.00E-02 3.67E+00 0.003 70-130	50-150	20	n/a
Indeno(1,2,3-cd)pyrene 0.01 ug/L 1.00E-02 1.60E-04 0.005 70-130 Phenanthrene 0.01 ug/L 1.00E-02 na 0.006 70-130		20	n/a
Phenanthrene		20 20	n/a n/a
Total cPAH TEQ 1.51E-02 9.69E-03	00 100	20	TI/U
Organochlorine Pesticides (low level) by 8081 (ug/L) (Friedman & Bruya)		<u> </u>	
4,4'-DDD 0.00125 ug/L 1.25E-03 7.90E-06 0.00047 31-161	50-150	20	n/a
4,4'-DDE 0.00125 ug/L 1.25E-03 8.80E-07 0.00040 48-114		20	n/a
4,4'-DDT 0.00125 ug/L 1.25E-03 1.20E-06 0.00045 50-121	50-150	20	n/a
Aldrin 0.000625 ug/L 6.25E-04 4.10E-08 0.00028 43-98	50-150	20	n/a
alpha-BHC 0.000625 ug/L 6.25E-04 4.80E-05 0.00027 41-101		20	n/a
beta-BHC 0.000625 ug/L 6.25E-04 1.40E-03 0.00034 49-104 cis-Chlordane 0.000625 ug/L 6.25E-04 1.03E-04 0.00038 47-106		20 20	n/a n/a
delta-BHC 0.000625 ug/L 6.25E-04 na 0.00018 45-108		20	n/a
Dieldrin 0.00125 ug/L 1.25E-03 1.20E-06 0.00038 54-115		20	n/a
Endosulfan I 0.000625 ug/L 6.25E-04 8.70E-03 0.00034 10-140	50-150	20	n/a
Endosulfan II 0.00125 ug/L 1.25E-03 8.70E-03 0.00040 10-144		20	n/a
Endosulfan Sulfate 0.00125 ug/L 1.25E-03 1.00E+01 0.00048 58-110		20	n/a
Endrin 0.00125 ug/L 1.25E-03 2.00E-03 0.00029 39-136 Endrin Aldehyde 0.00125 ug/L 1.25E-03 3.50E-02 0.00048 47-113		20 20	n/a n/a
Endrin Aldenyde 0.00125 ug/L 1.25E-03 3.50E-02 0.00048 47-113 Endrin Ketone 0.00125 ug/L 1.25E-03 na 0.00048 57-120		20	n/a n/a
gamma-BHC (Lindane) 0.000625 ug/L 6.25E-04 1.26E-01 0.00034 43-105		20	n/a

Table C.6. Measurement Quality Objectives for Water Samples

Project No. 190293, South Park Marina, Seattle, Washington

		I					I		
Analyte Name	MRL	Lab Reporting Units	MRL (μg/L)	Most Stringent PCUL for Non- Potable Water (μg/L)	MDL ^(A)	LCS/LCS %R ^(A)	MS/MSD %R ^(A)	RPD (%)	Surrogate %R ^(A)
Heptachlor	0.000625	ug/L	6.25E-04	3.40E-07	0.00031	39-104	50-150	20	n/a
· ·		ug/L ug/L	6.25E-04	2.40E-06	0.00031	52-110	50-150	20	n/a
Heptachlor Epoxide	0.000625	•	6.25E-04 6.25E-03					-	*
Methoxychlor Organochlorine Pesticides (low le	*****	ug/L	edman & B	2.00E-02	0.00055	51-126	50-150	20	n/a
Toxaphene	0.0625	ug/L	6.25E-02	3.20E-05	0.03310	56-123	50-150	20	n/a
trans-Chlordane	0.0025	ug/L	6.25E-04	1.03E-04	0.00039	39-119	50-150	20	n/a
TCMX	n/a	ug/L	n/a	na		n/a	n/a	n/a	20-121
DBC	n/a	ug/L	n/a	na na		n/a	n/a	n/a	18-174
Polychlorinated biphenyl (PCB) A	roclors (lov		082 (ug/L)	Friedman & Bru	va)		.,,	.,	
Aroclor 1016	0.0035	ug/L	3.50E-03	na	0.0017	25-111	50-150	20	n/a
Aroclor 1221	0.0035	ug/L	3.50E-03	na	0.0017			20	n/a
Aroclor 1232	0.0035	ug/L	3.50E-03	na	0.0017			20	n/a
Aroclor 1242	0.0035	ug/L	3.50E-03	na	0.0017			20	n/a
Aroclor 1248	0.0035	ug/L	3.50E-03	na	0.0017			20	n/a
Aroclor 1254	0.0035	ug/L	3.50E-03	na	0.0017			20	n/a
Aroclor 1260	0.0035	ug/L	3.50E-03	na	0.0013	23-123	50-150	20	n/a
Aroclor 1262	0.0035	ug/L	3.50E-03	na	0.0013			20	n/a
Aroclor 1268	0.0035	ug/L	3.50E-03	na	0.0013			20	n/a
TCMX	n/a	ug/L	n/a	na		n/a	n/a	n/a	24-127
Total PCB Aroclors			3.15E-02	7.00E-06					
Chlorinated Dioxin/Furans by 161	3B (ug/L) (Vista Analyti	cal)				I.		
2,3,7,8-TCDF	5.00	pg/L	5.00E-06	na	1.78	70-130	-	30	-
2,3,7,8-TCDD	5.00	pg/L	5.00E-06	na	1.78	70-130	-	30	-
1,2,3,7,8-PeCDF	25.00	pg/L	2.50E-05	na	5.01	70-130	-	30	-
2,3,4,7,8-PeCDF	25.00	pg/L	2.50E-05	na	4.99	70-130	-	30	-
1,2,3,7,8-PeCDD	25.00	pg/L	2.50E-05	na	5.63	70-130	-	30	-
1,2,3,4,7,8-HxCDF	25.00	pg/L	2.50E-05	na	6.87	70-130	-	30	=
1,2,3,6,7,8-HxCDF	25.00	pg/L	2.50E-05	na	6.31	70-130	-	30	=
2,3,4,6,7,8-HxCDF	25.00	pg/L	2.50E-05	na	5.8	70-130	-	30	-
1,2,3,7,8,9-HxCDF	25.00	pg/L	2.50E-05	na	5.33	70-130	-	30	-
1,2,3,4,7,8-HxCDD	25.00	pg/L	2.50E-05	na	4.18	70-130	-	30	-
1,2,3,6,7,8-HxCDD	25.00	pg/L	2.50E-05	na	3.51	70-130	-	30	-
1,2,3,7,8,9-HxCDD	25.00	pg/L	2.50E-05	na	4.46	70-130	-	30	-
1,2,3,4,6,7,8-HpCDF	25.00	pg/L	2.50E-05	na	5.96	70-130	-	30	-
1,2,3,4,7,8,9-HpCDF	25.00 25.00	pg/L	2.50E-05 2.50E-05	na	5.34 4.84	70-130 70-130	-	30 30	-
1,2,3,4,6,7,8-HpCDD OCDF	25.00 50.00	pg/L	2.50E-05 5.00E-05	na		70-130 70-130		30 30	-
OCDD	50.00	pg/L pg/L	5.00E-05 5.00E-05	na	11.3 16.4	70-130 70-130	-	30 30	-
Total chlorinated dioxins	50.00	μg/L	3.78E-05	na na	10.4	10-130	-	30	-
Total chlorinated dioxins			1.93E-05	na					
Total dioxin/furan TEQ			5.70E-05	2.76E-08					
Total dioxili/lulali TEQ			0.70L-00	2.701-00					

Notes:

(A) – Based on current laboratory control criteria. Some values may vary slightly between instruments and can be subject to change as the laboratory updates the charted values periodically.

%R – percent recovery

LCS/LCSD – laboratory control samples and laboratory control sample duplicate

MDL – method detection limit

MRL – method reporting limit

MS/MSD - Matrix Spike and Matrix Spike Duplicate

na – screening level not available

RPD - relative percent difference

(--) - No value identified

TEQ - total toxic equvalent concentration calculated in accordance with MTCA.

pg/L -- picogram per liter

ug/L - microgram per liter

ug/L -- microgram per liter

Red highlight indicates that the MRL is higher than the most stringent screening level.

March Marc					Most Stringent Sub-Slab Soil Gas Screening	Most Stringent Indoor Air					
Volume V	Analyte Name	MRL	Reporting		Commercial	Commercial	MDL ^(A)			RPD (%)	Surrogate %R ^(A)
11.22-Triabroordname	Volatile Organic Compounds (VO	Cs) by EPA	Method TO15	(ug/m³) (Frie	edman & Bruya)			<u> </u>	<u> </u>	<u> </u>	
11.22-Triabroordname						6.02E-01	0.04	70-130		30	n/a
11.2-Principotentame	1,1,2,2-Tetrachloroethane	0.14		1.40E-01	5.39E+00	1.66E-01	0.05	70-130		30	n/a
11.5De/inforcebrame	1,1,2-Trichloroethane	0.055		5.50E-02	2.00E+01	6.02E-01	0.03	70-130		30	n/a
1.2.4 Trinchiphoremen	1,1-Dichloroethane	0.4		4.00E-01	2.00E+02	6.02E+00	0.02	70-130		30	n/a
1.2.4 Trinchiphoremen	1,1-Dichloroethene	0.4	μg/m³	4.00E-01	2.52E+04	7.69E+02	0.06	70-130		30	n/a
12-Debriorosterame 15-Debriorosterame lorobenzene	0.74		7.40E-01	2.52E+02	7.69E+00	0.51	70-130		30	n/a	
12-Delickorebraceme	1,2,4-Trimethylbenzene	2.5	μg/m ³	2.50E+00	7.65E+03	2.31E+02	3.61	70-130		30	n/a
1.2-Dichicroproshme (EDC)	1,2-Dibromoethane (EDB)	0.077		7.70E-02	5.39E-01	1.60E-02	0.05	70-130		30	n/a
1.5-Dichicoprogramme	1,2-Dichlorobenzene	0.6	μg/m³	6.00E-01	2.52E+04	7.69E+02	0.12	70-130		30	n/a
13.5 Timethybenzene	1,2-Dichloroethane (EDC)										n/a
1.5-Batacleme	1,2-Dichloropropane	0.23	μg/m³	2.30E-01	8.86E+01	2.60E+00	0.08	70-130		30	n/a
1.5-Delhorobenzeme	1,3,5-Trimethylbenzene				7.65E+03	2.31E+02				30	n/a
1.4-Distorberszere	1,3-Butadiene				na						
14-Dioxane	'										
2.2.4-Timethylpentane	,										
2-99	'										
2.Chisorotokume											
24-Hexanone	· '										
2-Propanol 8.6 μg/m² 8.60E+00 na na 2.02 70-130 30 n/a											
3-Chloropropenee 1.6 μg/m² 2.50E+00 5.39E+01 1.50E+00 2.46 70-130 30 n/a 4.4Ethyltolune 2.5 μg/m² 2.50E+00 na na 4.53 70-130 30 n/a 4.4Ethyltolune 4.1 μg/m² 4.10E+00 3.87E+05 1.15E+04 2.25 70-130 30 n/a 7.50E+01 7.50E+00 7.69E+02 0.55 70-130 30 n/a 7.50E+01 7.50E+00 7.69E+02 0.55 70-130 30 n/a 7.50E+01 7.50E+00 7.69E+02 0.55 70-130 30 n/a 7.50E+01 7.50E+00 7.69E+02 0.55 70-130 30 n/a 7.50E+01 7.50E+00 7.69E+02 0.55 70-130 30 n/a 7.50E+01 7.50E+00 7.69E+02 0.55 70-130 30 n/a 7.50E+00 7.											
4-Ethylobaene 2.5 μg/m² μg/m² μg/m² 2.50E+00 na na 4.53 70-130 30 n/a 4-Methyl-Z-pentanone 4.1 μg/m² 4.10E+00 3.87E+05 1.15E+04 2.25 70-130 30 n/a Acetone 4.8 μg/m² 4.00E+00 3.87E+05 1.15E+04 2.25 70-130 30 n/a Acetone 0.31 μg/m² 3.00E-01 2.25E+00 7.09E-02 0.05 70-130 30 n/a Benzycel 0.052 μg/m² 5.00E-02 8.66E+00 7.09E-02 0.05 70-130 30 n/a Bromofichromethane 0.067 μg/m² 2.00E-02 8.66E+00 1.09E-01 0.03 70-130 30 n/a Bromofichromethane 2.3 μg/m² 2.00E-02 8.66E+00 2.00E-01 0.05 70-130 30 n/a Carbon disulfide 6.2 μg	· ·										
4-Methyl-2-pentanone	1 ' '										-
Acetone 4.8 μg/m² 4.80E+00 3.95E+06 1.19E+02 0.05 70-130 30 n/a	1										
Benzane											-
Benzel											-
Senzyl chloride											
Bromoform 2.1 μg/m³ 6.70E-02 8.86EE-00 2.60E-01 0.04 70-130 30 n/a pg/m³ 2.30E+00 6.39E+02 1.92E+01 3.82 70-130 30 n/a 1.80E+00 1											
Bromnofform 2.1 μg/m³ 2.10 E+00 2.93E+02 8.75E+00 0.51 70-130 30 n/a Bromomethane 4.8 μg/m³ 4.80E+00 na 1.92E+01 3.82 70-130 30 n/a Carbon disulfide 6.2 μg/m³ 4.80E+00 9.25E+04 2.69E+03 3.62 70-130 30 n/a Carbon tetrachloride 0.31 μg/m³ 3.0E-01 na na 0.32 70-130 30 n/a Circo-113 0.77 μg/m³ 7.70E-01 na na na 0.30 70-130 30 n/a Chlorobenzene 0.46 μg/m³ 4.60E-01 1.26E+06 3.84E+04 0.08 70-130 30 n/a Chlorobenzene 0.4 μg/m³ 4.90E-02 1.13E+03 1.92E+03 1.92E+03 3.0E-01 0.08 70-130 30 n/a Chlorobreme	•										
Bromomethane 2.3											
Battane 4.8 µg/m³ 4.80E+00 na na 2.14 70-130 30 n/a Carbon disulfide 6.2 µg/m³ 6.20E+004 2.69E+03 3.62 70-130 30 n/a Carbon tetrachloride 0.31 µg/m³ 3.10E+01 5.39E+01 1.60E+00 0.07 70-130 30 n/a CFC-113 0.77 µg/m³ 7.70E+01 na na 0.30 70-130 30 n/a CFC-113 0.77 µg/m³ 4.60E+01 6.39E+03 1.92E+02 0.12 70-130 30 n/a Chloroethane 2.6 µg/m³ 4.60E+01 1.26E+06 3.84E+04 0.08 70-130 30 n/a Chloroethane 3.7 µg/m³ 3.70E+00 1.18E+06 3.84E+04 0.08 70-130 30 n/a Chloroethane 3.7 µg/m³ 4.90E+01 1.39E+01 4.18E-01 0.04 70-130 30 n/a Chloroethane 0.4 µg/m³ 4.00E+01 na na 0.04 70-130 30 n/a Chloroethane 0.4 µg/m³ 4.00E+01 na na 0.04 70-130 30 n/a Chloroethane 0.05 µg/m³ 6.90E+00 1.18E+04 3.46E+02 0.06 70-130 30 n/a Chloroethane 0.05 µg/m³ 6.90E+00 1.80E+01 na na 0.04 70-130 30 n/a Chloroethane 0.05 µg/m³ 6.90E+00 1.26E+05 2.31E+04 3.11 70-130 30 n/a Chloroethane 0.05 µg/m³ 8.50E+02 na na 0.05 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 na na 0.05 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 na na 0.05 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 na na 0.05 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 na na 0.05 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 na na 0.05 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 na na 0.05 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 1.26E+05 3.84E+03 0.13 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 1.26E+05 3.84E+03 0.13 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 1.26E+05 3.84E+03 0.13 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 1.26E+05 3.84E+03 0.13 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 1.26E+05 3.84E+03 0.13 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 1.26E+05 3.84E+03 0.13 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 1.26E+05 3.84E+03 0.13 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 1.26E+05 3.84E+03 0.13 70-130 30 n/a Chloroethane 0.05 µg/m³ 7.50E+00 1.26E+05 1.26E+05 3.30E-01 0.03 70-130 30 n/a Chloroethane 0.26 µg/m³ 3.50E+00 1.26E+05 3.84E+03 0.37 70-130 30 n/a											
Carbon disulfide 6.2 µg/m³ 6.20E+00 9.25E+04 2.59E+04 2.69E+03 3.62 70-130 30 n/a Carbon tetrachloride 0.31 µg/m³ 3.10E-01 5.39E+01 1.60E+00 0.07 70-130 30 n/a Chlorobenzene 0.46 µg/m³ 4.60E-01 6.39E+03 1.92E+02 0.12 70-130 30 n/a Chlorobethane 2.6 µg/m³ 2.60E+00 1.26E+06 3.84E+04 0.08 70-130 30 n/a Chloroform 0.049 µg/m³ 2.60E+00 1.26E+06 3.84E+04 0.08 70-130 30 n/a Chloromethane 0.4 µg/m³ 4.90E-01 1.18E+04 3.46E+02 0.06 70-130 30 n/a Cyclohexane 6.9 µg/m³ 4.50E-01 na na 0.02 70-130 30 n/a Dibromochloromethane 0.049 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
Carbon tetrachloride 0.31 µg/m³ 3.10E-01 5.39E+01 1.60E+00 0.07 70-130 — 30 n/a CFC-113 0.77 µg/m³ 4.60E-01 6.39E+03 1.92E+02 0.12 70-130 — 30 n/a Chloroethane 2.6 µg/m³ 4.60E-01 1.39E+06 3.84E+04 0.08 70-130 — 30 n/a Chloroform 0.049 µg/m³ 4.90E-02 1.25E+06 3.84E+04 0.08 70-130 — 30 n/a Chloroform 0.049 µg/m³ 4.90E-02 1.39E+01 4.18E-01 0.04 70-130 — 30 n/a Chloroform 0.49 µg/m³ 4.90E-01 na na 0.04 70-130 — 30 n/a cis-1,2-Dichloroethene 0.4 µg/m³ 4.90E-01 na na 0.20 70-130 — 30 n/a Cyclohexane 6.9 µg/m³ 4.50E-01											
CFC-113 0.77 μg/m³ 7.70E-01 na na 0.30 70-130 30 n/a Chlorobenzene 0.46 μg/m³ 2.60E+00 1.26E+06 3.84E+02 0.12 70-130 30 n/a Chloroform 0.049 μg/m³ 4.90E-02 1.39E+01 4.18E-01 0.04 70-130 30 n/a Chloromethane 3.7 μg/m³ 4.90E-02 1.39E+01 4.18E-01 0.04 70-130 30 n/a Chloromethane 0.4 μg/m³ 4.00E-01 na na 0.04 70-130 30 n/a cis-1,3-Dichloropropene 0.45 μg/m³ 4.50E-01 na na 0.04 70-130 30 n/a Dichlorodifluoromethane 0.085 μg/m³ 8.50E-02 na na 0.05 70-130 30 n/a Ethanol 7.5 μg/m³ 4.90E-01 1.26											-
Chlorobenzene 0.46 μg/m³ 4.60E-01 6.39E+03 1.92E+02 0.12 70-130											-
Chloroethane 2.6 μg/m³ 2.60E+00 1.26E+06 3.84E+04 0.08 70-130 30 n/a											
Chloroform											
Chloromethane 3.7	Chloroform	0.049		4.90E-02	1.39E+01	4.18E-01	0.04	70-130		30	n/a
cis-1,2-Dichloroethene 0.4 μg/m³ 4.00E-01 na na na 0.04 70-130 30 n/a cis-1,2-Dichloropropene 0.45 μg/m³ 4.50E-01 na na 0.20 70-130 30 n/a Cyclohexane 6.9 μg/m³ 6.90E+00 7.65E+05 2.31E+04 3.11 70-130 30 n/a Dibromochloromethane 0.085 μg/m³ 4.90E-01 1.26E+04 3.84E+02 0.28 70-130 30 n/a Ethyl acetate 7.5 μg/m³ 7.20E+00 na na 4.23 70-130 30 n/a Ethyl acetate 7.2 μg/m³ 7.20E+00 9.25E+03 2.69E+02 3.23 70-130 30 n/a F-114 0.7 μg/m³ 7.00E-01 na na 0.17 70-130 30 n/a Heptane 4.1 μg/m³ 4.10E+00<		3.7		3.70E+00	1.18E+04	3.46E+02	0.06	70-130		30	n/a
cis-1,3-Dichloropropene 0.45 µg/m³ 4.50E-01 na na na 0.20 70-130 30 n/a Cyclohexane 6.9 µg/m³ 8.50E-02 na na 0.05 70-130 30 n/a Dichorodifluoromethane 0.085 µg/m³ 8.50E-02 na na 0.05 70-130 30 n/a Ethanol 7.5 µg/m³ 4.90E-01 1.26E+04 3.84E+02 0.28 70-130 30 n/a Ethyla cetate 7.2 µg/m³ 7.50E+00 na na 4.23 70-130 30 n/a Ethylbenzene 0.43 µg/m³ 4.30E-01 1.26E+05 3.84E+03 0.13 70-130 30 n/a F-114 0.7 µg/m³ 4.00E+00 1.3Ee+05 3.84E+03 0.13 70-130 30 n/a Heptane 4.1 µg/m³ 4.10E+00 <		0.4		4.00E-01	na	na	0.04	70-130		30	n/a
Cyclohexane 6.9 μg/m³ 6.90E+00 7.65E+05 2.31E+04 3.11 70-130 — 30 n/a Dibromochloromethane 0.085 μg/m³ 8.50E-02 na na 0.05 70-130 — 30 n/a Ethoroid fluoromethane 0.49 μg/m³ 4.90E-01 1.26E+04 3.84E+02 0.28 70-130 — 30 n/a Ethyl acetate 7.5 μg/m³ 7.20E+00 9.25E+03 2.69E+02 3.23 70-130 — 30 n/a Ethyl benzene 0.43 μg/m³ 4.30E-01 1.26E+05 3.84E+03 0.13 70-130 — 30 n/a Ethyl benzene 0.43 μg/m³ 4.30E-01 na na 0.17 70-130 — 30 n/a Ethyl benzene 0.7 μg/m³ 4.10E+00 1.3E+04 1.54E+03 0.13 70-130 — 30 n/a Heyane 4.1 μg/m³ 2.10E-01	cis-1,3-Dichloropropene	0.45		4.50E-01	na	na	0.20	70-130		30	n/a
Dibromochloromethane 0.085 μg/m³ μg/m³ 8.50E-02 na na na 0.05 70-130 30 n/a Dichlorodifiloromethane 0.49 μg/m³ 4.90E-01 1.26E+04 3.84E+02 0.28 70-130 30 n/a - 30 n/a Ethanol 7.5 μg/m³ 7.50E+00 na na 4.23 70-130 30 n/a Ethyl acetate 7.2 μg/m³ 7.20E+00 9.25E+03 2.69E+02 3.23 70-130 3.23 70-130 30 n/a Ethylbenzene 0.43 μg/m³ 4.30E-01 1.26E+05 3.84E+03 0.13 70-130 30 n/a F-114 0.7 μg/m³ 7.00E-01 na na na 0.17 70-130 30 n/a Gasoline Range Organics μg/m³ 7.00E-01 na na na 29.66 70-130 30 n/a Heptane 4.1 μg/m³ 4.10E+00 5.13E+04 1.54E+03 2.09 70-130 30 n/a Hexachlorobutadiene 0.21 μg/m³ 3.50E+00 9.25E+04 2.69E+03 3.33 70-130 30 n/a Hexane 3.5 μg/m³ 3.50E+00 9.25E+04 2.69E+03 3.33 70-130 30 n/a Isopropylbenzene 2.5 μg/m³ 3.50E+00 5.13E+04 1.54E+03 5.26 70-130 30 n/a Methyl Methacrylate 4.1 μg/m³ 3.80E+00 1.23E+03 3.70E+01 na na 0.26 70-130 30 n/a Methyl teher 1.8 μ	Cyclohexane	6.9		6.90E+00	7.65E+05	2.31E+04	3.11	70-130		30	n/a
Ethanol 7.5 μg/m³ 7.50E+00 na na 4.23 70-130 30 n/a Ethyl acetate 7.2 μg/m³ 7.20E+00 9.25E+03 2.69E+02 3.23 70-130 30 n/a Ethylbenzene 0.43 μg/m³ 4.30E-01 1.26E+05 3.84E+03 0.13 70-130 30 n/a F-114 0.7 μg/m³ 4.70E-01 na na 0.17 70-130 30 n/a Gasoline Range Organics μg/m³ na na 0.17 70-130 30 n/a Heptane 4.1 μg/m³ 4.10E+00 5.13E+04 1.54E+03 2.09 70-130 30 n/a Hexane 3.5 μg/m³ 2.10E-01 1.46E+01 4.38E-01 0.11 70-130 30 n/a Hexane 3.5 μg/m³ 2.50E+00 9.25E+04 2.69E+03<	Dibromochloromethane	0.085		8.50E-02	na	na	0.05	70-130		30	n/a
Ethyl acetate 7.2 μg/m³ 7.20E+00 9.25E+03 2.69E+02 3.23 70-130 30 n/a Ethylbenzene 0.43 μg/m³ 4.30E-01 1.26E+05 3.84E+03 0.13 70-130 30 n/a F-114 0.7 μg/m³ 7.00E-01 na 0.17 70-130 30 n/a Gasoline Range Organics μg/m³ 4.10E+00 5.13E+04 1.54E+03 2.09 70-130 30 n/a Hebrane 4.1 μg/m³ 4.10E+00 5.13E+04 1.54E+03 2.09 70-130 30 n/a Hexachlorobutadiene 0.21 μg/m³ 2.10E-01 1.46E+01 4.38E-01 0.11 70-130 30 n/a Hexane 3.5 μg/m³ 2.50E+00 9.25E+04 2.69E+03 3.33 70-130 30 n/a Isopropylbenzene 2.5 μg/m³ 2.50E+00 5.	Dichlorodifluoromethane	0.49	μg/m ³	4.90E-01	1.26E+04	3.84E+02	0.28	70-130		30	n/a
Ethylbenzene	Ethanol	7.5	μg/m³	7.50E+00	na	na	4.23	70-130		30	n/a
F-114 0.7 μg/m³ 7.00E-01 na na 0.17 70-130 30 n/a Gasoline Range Organics μg/m³ na 1.54E+03 2.09 70-130 30 n/a Heptane 4.1 μg/m³ 4.10E+00 5.13E+04 1.54E+03 2.09 70-130 30 n/a Hexachlorobutadiene 0.21 μg/m³ 2.10E-01 1.46E+01 4.38E-01 0.11 70-130 30 n/a Hexane 3.5 μg/m³ 3.50E+00 9.25E+04 2.69E+03 3.33 70-130 30 n/a Isopropylbenzene 2.5 μg/m³ 2.50E+00 5.13E+04 1.54E+03 5.26 70-130 30 n/a Isopropylbenzene 0.87 μg/m³ 2.50E+00 5.13E+04 1.54E+03 5.26 70-130 30 n/a Methyl Methacrylate 4.1 μg/m³ 1.80E+00 </td <td>Ethyl acetate</td> <td>7.2</td> <td>μg/m³</td> <td>7.20E+00</td> <td>9.25E+03</td> <td>2.69E+02</td> <td>3.23</td> <td>70-130</td> <td></td> <td>30</td> <td>n/a</td>	Ethyl acetate	7.2	μg/m ³	7.20E+00	9.25E+03	2.69E+02	3.23	70-130		30	n/a
Gasoline Range Organics μg/m³ na na 29.66 70-130 30 n/a Heptane 4.1 μg/m³ 4.10E+00 5.13E+04 1.54E+03 2.09 70-130 30 n/a Hexane 0.21 μg/m³ 2.10E-01 1.46E+01 4.38E-01 0.11 70-130 30 n/a Hexane 3.5 μg/m³ 3.50E+00 9.25E+04 2.69E+03 3.33 70-130 30 n/a Isopropylbenzene 2.5 μg/m³ 2.50E+00 5.13E+04 1.54E+03 5.26 70-130 30 n/a m.p-Xylene 0.87 μg/m³ 8.70E-01 na na 0.26 70-130 30 n/a Methyl Methacrylate 4.1 μg/m³ 4.10E+00 9.25E+04 2.69E+03 2.55 70-130 30 n/a Methyl t-butyl ether 1.8 μg/m³ 3.50E+01					1.26E+05	3.84E+03					n/a
Heptane 4.1 µg/m³ 4.10E+00 5.13E+04 1.54E+03 2.09 70-130 30 n/a Hexachlorobutadiene 0.21 µg/m³ 2.10E-01 1.46E+01 4.38E-01 0.11 70-130 30 n/a Hexane 3.5 µg/m³ 3.50E+00 9.25E+04 2.69E+03 3.33 70-130 30 n/a Isopropylbenzene 2.5 µg/m³ 2.50E+00 5.13E+04 1.54E+03 5.26 70-130 30 n/a m,p-Xylene 0.87 µg/m³ 8.70E-01 na na 0.26 70-130 30 n/a Methyl Methacrylate 4.1 µg/m³ 4.10E+00 9.25E+04 2.69E+03 2.55 70-130 30 n/a Methyl t-butyl ether 1.8 µg/m³ 1.80E+00 1.23E+03 3.70E+01 3.73 70-130 30 n/a Methylene chloride 35 µg/m³ 3.50E+01 8.47E+03 2.53E+02 3.18 70-130 30 n/a Naphthalene 0.26 µg/m³ 2.60E-01 9.63E+00 2.83E-01 0.03 70-130 30 n/a Nonane 5.2 µg/m³ 5.20E+00 na na 3.62 70-130 30 n/a Pentane 3 µg/m³ 4.30E-01 na na 0.15 70-130 30 n/a Propene 1.2 µg/m³ 1.20E+00 na na 0.43 70-130 30 n/a Propylbenzene 2.5 µg/m³ 2.50E+00 na na 0.43 70-130 30 n/a	F-114	0.7	μg/m³	7.00E-01	na	na					n/a
Hexachlorobutadiene 0.21 μg/m³ 2.10E-01 1.46E+01 4.38E-01 0.11 70-130 30 n/a Hexane 3.5 μg/m³ 3.50E+00 9.25E+04 2.69E+03 3.33 70-130 30 n/a Isopropylbenzene 2.5 μg/m³ 2.50E+00 5.13E+04 1.54E+03 5.26 70-130 30 n/a m,p-Xylene 0.87 μg/m³ 8.70E-01 na na 0.26 70-130 30 n/a Methyl Methacrylate 4.1 μg/m³ 4.10E+00 9.25E+04 2.69E+03 2.55 70-130 30 n/a Methyl t-butyl ether 1.8 μg/m³ 1.80E+00 1.23E+03 3.70E+01 3.73 70-130 30 n/a Methyl t-butyl ether 1.8 μg/m³ 3.50E+01 8.47E+03 2.53E+02 3.18 70-130 30 n/a Naphthalene 0.26 μg/m³ <td>Gasoline Range Organics</td> <td></td> <td>μg/m³</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>30</td> <td>n/a</td>	Gasoline Range Organics		μg/m³							30	n/a
Hexane 3.5 μg/m³ 3.50E+00 9.25E+04 2.69E+03 3.33 70-130 30 n/a Isopropylbenzene 2.5 μg/m³ 2.50E+00 5.13E+04 1.54E+03 5.26 70-130 30 n/a m,p-Xylene 0.87 μg/m³ 8.70E-01 na na 0.26 70-130 30 n/a Methyl Methacrylate 4.1 μg/m³ 4.10E+00 9.25E+04 2.69E+03 2.55 70-130 30 n/a Methyl t-butyl ether 1.8 μg/m³ 1.80E+00 1.23E+03 3.70E+01 3.73 70-130 30 n/a Methyl t-butyl ether 1.8 μg/m³ 1.80E+00 1.23E+03 3.70E+01 3.73 70-130 30 n/a Methyl t-butyl ether 35 μg/m³ 3.50E+01 8.47E+03 2.53E+02 3.18 70-130 30 n/a Naphthalene 0.26 μg/m³	1 -										
Isopropylbenzene	Hexachlorobutadiene				1.46E+01		0.11			30	n/a
m,p-Xylene 0.87 µg/m³ 8.70E-01 na na 0.26 70-130 30 n/a Methyl Methacrylate 4.1 µg/m³ 4.10E+00 9.25E+04 2.69E+03 2.55 70-130 30 n/a Methyl t-butyl ether 1.8 µg/m³ 1.80E+00 1.23E+03 3.70E+01 3.73 70-130 30 n/a Methylene chloride 35 µg/m³ 3.50E+01 8.47E+03 2.53E+02 3.18 70-130 30 n/a Naphthalene 0.26 µg/m³ 2.60E-01 9.63E+00 2.83E-01 0.03 70-130 30 n/a Nonane 5.2 µg/m³ 5.20E+00 na na 3.62 70-130 30 n/a Pentane 0.43 µg/m³ 4.30E-01 na na 0.15 70-130 30 n/a Propene 1.2 µg/m³ 1.20E+00 na na 0.43 70-130 30 n/a Propylbenzene 2.5 µg/m³ 2.50E+00 1.26E+05 3.84E+03 4.31 70-130 30 n/a	Hexane										
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Methyl t-butyl ether 1.8 µg/m³ 1.80E+00 1.23E+03 3.70E+01 3.73 70-130 30 n/a Methylene chloride 35 µg/m³ 3.50E+01 8.47E+03 2.53E+02 3.18 70-130 30 n/a Naphthalene 0.26 µg/m³ 2.60E-01 9.63E+00 2.83E-01 0.03 70-130 30 n/a Nonane 5.2 µg/m³ 5.20E+00 na na 3.62 70-130 30 n/a o-Xylene 0.43 µg/m³ 4.30E-01 na na 0.15 70-130 30 n/a Pentane 3 µg/m³ 3.00E+00 na na 3.20 70-130 30 n/a Propene 1.2 µg/m³ 1.20E+00 na na 0.43 70-130 30 n/a Propylbenzene 2.5 µg/m³ 2.50E+00 1.26E+05 3.84E+	" ,										
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Nonane 5.2 μg/m³ 5.20E+00 na na 3.62 70-130 30 n/a o-Xylene 0.43 μg/m³ 4.30E-01 na na 0.15 70-130 30 n/a Pentane 3 μg/m³ 3.00E+00 na na 3.20 70-130 30 n/a Propene 1.2 μg/m³ 1.20E+00 na na 0.43 70-130 30 n/a Propylbenzene 2.5 μg/m³ 2.50E+00 1.26E+05 3.84E+03 4.31 70-130 30 n/a	· ·										
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 -										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			μg/m [°]								
Styrene 0.85 µg/m³ 8.50E-01 1.26E+05 3.84E+03 0.15 70-130 30 n/a	1		μg/m°								
OUV HIGHE 0.00 HIGHE 0.00E-01 1.20E-00 0.04E-00 0.10 10-100 00 11/d			μg/m ³								
t-Butyl alcohol (TBA) 12	•										

Table C.7. Measurement Quality Objectives for Soil Gas Samples

Project No. 190293, South Park Marina, Seattle, Washington

				Most Stringent Sub-Slab Soil	Mant Ctrimmont					
				Gas Screening	Most Stringent Indoor Air					
		Lab		Level for	Cleanup Level for					
		Reporting	MRL	Commercial	Commercial		LCS/LCS	MS/MSD		Surrogate
Analyte Name	MRL	Units	(µg/m3)	Use ^(B) (µg/m3)	Use ^(B) (µg/m3)	MDL ^(A)	%R ^(A)	%R ^(A)	RPD (%)	%R ^(A)
Volatile Organic Compounds (VO	Cs) by EPA	Method TO15	(ug/m³) (Frie	edman & Bruya)						
Tetrachloroethene	6.8	μg/m³	6.80E+00	1.23E+03	3.70E+01	0.14	70-130		30	n/a
Tetrahydrofuran	0.59	μg/m³	5.90E-01	2.52E+05	7.69E+03	0.16	70-130		30	n/a
Toluene	19	μg/m ³	1.90E+01	6.39E+05	1.92E+04	0.08	70-130		30	n/a
trans-1,2-Dichloroethene	0.4	μg/m³	4.00E-01	5.13E+03	1.54E+02	0.03	70-130		30	n/a
trans-1,3-Dichloropropene	0.45	μg/m³	4.50E-01	na	na	0.06	70-130		30	n/a
Trichloroethene	0.11	μg/m ³	1.10E-01	4.24E+01	1.29E+00	0.05	70-130		30	n/a
Trichlorofluoromethane	2.2	μg/m³	2.20E+00	9.25E+04	2.69E+03	0.20	70-130		30	n/a
Vinyl acetate	7	μg/m³	7.00E+00	2.52E+04	7.69E+02	3.56	70-130		30	n/a
Vinyl Bromide	0.44	μg/m ³	4.40E-01	2.16E+01	6.42E-01	0.10	70-130		30	n/a
Vinyl chloride	0.26	μg/m³	2.60E-01	3.66E+01	1.09E+00	0.02	70-130		30	n/a
4-Bromofluorobenzene	n/a	μg/m³	n/a	na	na	n/a	n/a		30	70-130
Aliphatic and Aromatic Hydrocarl	ons (APH)	by MA-APH M	ethod (ug/m ³) (Friedman & Bru	ya)					
EC5-8 Aliphatics	75	μg/m³	7.50E+01	na	na	n/a	70-130		30	70-130
EC9-12 Aliphatics	25	μg/m³	2.50E+01	na	na	n/a	70-130		30	70-130
EC8-10 Aromatics	25	μg/m³	2.50E+01	na	na	n/a	70-130		30	70-130
Total Petroleum Hydrocarbons ⁽¹⁾		μg/m³	1.25E+02	1.50E+03	1.18E+03					
4-Bromofluorobenzene	n/a	μq/m³	n/a		na	n/a	n/a		n/a	70-130

%R – percent recovery

LCS/LCSD - laboratory control samples and laboratory control sample duplicate

MDL - method detection limit MRL - method reporting limit

MS/MSD - Matrix Spike and Matrix Spike Duplicate

na - screening level not available

RPD - relative percent difference

μg/m3 -- microgram per cubic meter

Notes:

(A) — Based on current laboratory control criteria. Some values may vary slightly between instruments and can be subject to change as the laboratory updates the charted values periodically.

(B) — Based on current laboratory control criteria. Some values may vary slightly between instruments and can be subject to change as the laboratory updates the charted values periodically.

(B) — Based on current laboratory control criteria. Some values may vary slightly between instruments and can be subject to change as the laboratory updates the charted values periodically. (B) — The MTCA Method B subslab soil gas screening levels and indoor air cleanup levels have been adjusted to a commercial exposure scenario. For non-carcinogenic compounds, the average body weight was adjusted from 16 kg to 70 kg, and the breathing rate was adjusted from 10 m³/day to 20 m³/day. For both non-carcinogens and carcinogens, the exposure frequency was adjusted to from 1.0 to 0.26 (representing 45 hours per week for 50 weeks per year) in accordance with Ecology guidance (2022).

Table C.8. QC Parameters Associated with Precision, Accuracy, Representativeness, Comparability, Completeness, and Sensitivity (PARCCS)

Project No. 190293, South Park Marina, Seattle, Washington

Data Quality Indicators	QC Parameters
	RPD values of:
Precision	(1) Blank Spikes
FIECISIOII	(2) MS/MSD
	(3) Field Duplicates
	Percent Recovery (%R) or Relative Percent
	Difference (%RPD) values of:
	(1) Initial Calibration and Calibration Verification
	(2) Blank Spikes
	(3) MS
Accuracy/Bias	(4) Surrogate Spikes
	Results of:
	(1) Instrument and Calibration Blank
	(2) Method (Preparation) Blank
	(3) Trip Blank
	(4) Equipment Rinsate Blank (if appropriate)
	Results of All Blanks
Representativeness	Sample Integrity (Chain-of-Custody and Sample
Representativeness	Receipt Forms)
	Holding Times
	Sample-specific Reporting Limits
Comparability	Sample Collection Methods
	Laboratory Analytical Methods
	Data Qualifiers
Completeness	Laboratory Deliverables
	Requested/Reported Valid Results
Sensitivity	MDLs and MRLs

Notes:

MDL - method detection limit

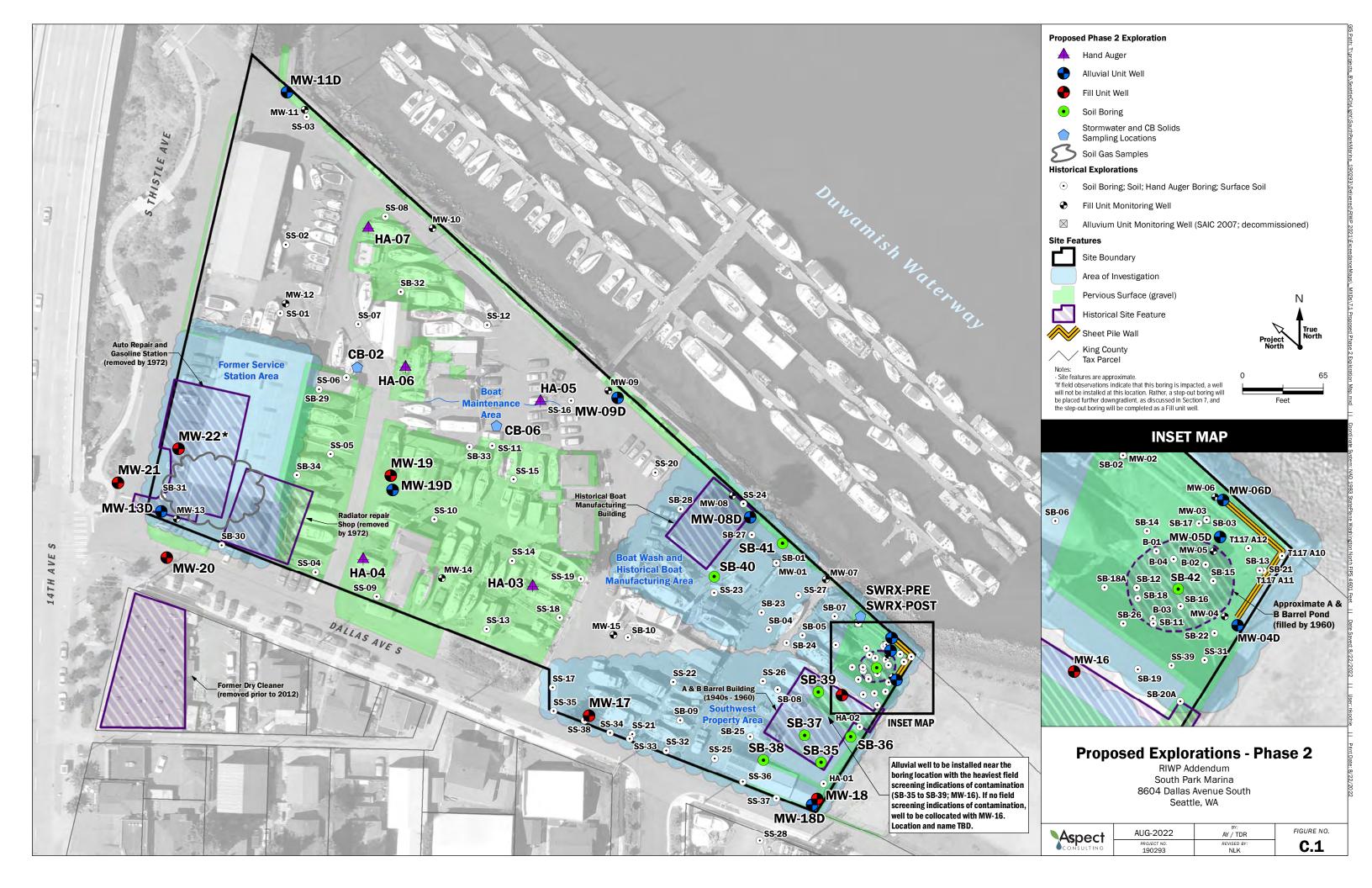
MRL - method reporting limit

MS/MSD - matrix spike/matrix spike duplicate

QC - quality control

APPENDIX C

Figures



APPENDIX C

Attachments



BORING LOG

SHEET	OF	

LOCATI	ON OF BO	RING							PROJECT NO.			BORING NO.			
									PROJECT NAME						
SKETCH	OF LOCA	TION							DRILLING METHOD:						
									LOGGED BY:						
									DRILLER:						
									SAMPLING METHOD:						
									HAMMER WEIGHT/SAMPLER DIAMETER						
									OBSERVATION WE	LL INSTALL	YES	NO		START	FINISH
									WATER LEVEL					TIME	TIME
									TIME						
									DATE					DATE	DATE
DATUM					GRADE ELEV.				CASING DEPTH						
FIELD	OSCREE	NING	SAMPLE NO.	Ξ	<u> </u>	h.	-	<u> </u>	SURFACE CONDITIO	ON				l	-
Ę.			WPLE	DEPT	HES DI		ATION	MMAR							
ENV. SAMPLE TIME	PID (mdd)	SHEEN	SAM SAMPLE TYPE	SAMPLE DEPTH	NCHES RECV'D	DEPTH IN FEET	PENETRATION RESISTANCE	USCS SUMMARY	DESCRIPTION: Den MAJOR CONSTITUE NON-SOIL SUBSTAN	NT.		crap, slag, etc.	DRILL ACTI	ION	
			/		+-	1 _									
				-	+-	² —									
					\top	3									
					+	4									
			$\overline{}$		+	⁵ —									
					/ /	6									
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						1 -									
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				†	1	9 —		1							
						0									

As-Bı	uilt Well Cor	npletion Diagram						
Project Number:		Boring/Monitoring Well Number: Sheet: of:						
Project:		Location:						
Elevation:		Drilling Contractor:						
Drilling Method and Equipment Used:		Logged By:						
Water Levels:		Completion Start: Finish:						
Ecology Well ID								
		- Monument Type/Height						
Soil Type/ Completion Depth Depths		- Well Cap Type						
		- Surface Seal Material						
		- Seal Material (list NSF/ANSI certification)						
	-	- Well Casing ID						
	_	Type of Casing						
		Type of Connection						
		- Filter Pack/Size						
		Filter Pack Interval						
		- Well Screen ID						
		Type of Screen						
		Slot Size						
		Screen Interval						
		Centralizers						
		- Diameter of Borehole						
	-	- Sump						
	Bottom of Bo	ring						
_								
	Materials Used:	Screen:						
Aspect consulting	Sand:	- Diameter of Borehole - Sump - Sump Screen: Bentonite: Monument: Other:						
www.aspectconsulting.com	Blank:	Monument:						
a limited liability company	Concrete:	Other:						

WELL DE	VELOPMENT	RECORD			WELL NUMBER:						
Project Nar	ne:				Project Number:						
Date:					Starting Water Level (ft TOC):						
Developed	by:				Casing Stickup (ft BGS):						
	Point of Well:				Total Depth (ft TOC):						
	nterval (ft. BGS):				Casing Diame		· -				
	Interval (ft. BGS):	-			Odding Diame	ter (menes	<i>)</i> ·				
I III.CI FACK	interval (it. b00).										
Casing Volu		ft Water x		gpf =							
Casing volu	imes: 2" = 0.16 g	gpf 4"	= 0.65 gpf	6" =	1.47 gpf						
DEVELO	DMENT MEAS	HIDEMEN	TQ								
DEVELOPMENT MEASUREMENTS Elapsed Cumul. Vol. Purge Temp. pH Specific Turbidity Imhoff Cone Comr											
Time (min)	(gallons)	Rate (gpm)	(C or F)	рп	Conductance (µmhos/cm)	(NTU)	(ml/L)	Commente			
()		(3)/			(
Total Disch	arge (gallons):	ı	L		Total Casing \	/olumes Re	emoved (gallon	ns):			
Ending Wat	er Level (ft TOC)				_Ending Total [Depth (ft TO	DC): _				
METHOD											
Cleaning E											
	nt Equipment:										
	Discharged Water	er:									
Observation	ns/Comments:										

	pec'			Sample number						
GROUN	DWATER :	SAMPLING R	RECORD			WELL NUM	BER:			Page: of
Date: Sampled b Measuring Screened I Filter Pack	oy: g Point of Wel Interval (ft. To k Interval (ft. T	II:	TOC			Project Num Starting Wat Casing Stick Total Depth Casing Diam				
	lumes: 3/4"=	= 0.02 gpf	2" = 0.16 gpf	4" =	= 0.65 gpf	6" = 1.47	gpf		Sample Inta	ke Depth (ft TOC):
PURGIN		REMENTS	_ 0.02 Lp.		40 Ері	0 - 0.00 -	71			
Criteria:	:	Typical 0.1-0.5 Lpm	Stable	na	± 3%	± 10%	± 0.1	± 10 mV	± 10%	
Time	Cumul. Volume (gal or L)	Purge Rate (gpm or Lpm)	Water Level (ft)	Temp.	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	рН	ORP (mv)	Turbidity (NTU)	Comments
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	E INVENTO									·
Time	Volume	Bottle Type	Quantity	Filtration	Preservation	Appea	rance			
						Color	Turbidity & Sediment			Remarks
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METHO	DS									
		with (instrument		_						
							ipment:			
Disposal o	f Discharged	l Water:								
Observatio	ons/Commen ^f	ts:								

APPENDIX D

Report Limitations and Guidelines for Use

REPORT LIMITATIONS AND USE GUIDELINES

Reliance Conditions for Third Parties

This report was prepared for the exclusive use of the Client. No other party may rely on this report or the product of our services without the express written consent of Aspect Consulting, LLC (Aspect). This limitation is to provide our firm with reasonable protection against liability claims by third parties with whom there would otherwise be no contractual conditions or limitations and guidelines governing their use of the report. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with the Client and recognized standards of professionals in the same locality and involving similar conditions.

Services for Specific Purposes, Persons and Projects

Aspect has performed the services in general accordance with the scope and limitations of our Agreement. This report has been prepared for the exclusive use of the Client and their authorized third parties, approved in writing by Aspect. This report is not intended for use by others, and the information contained herein is not applicable to other properties.

This report is not, and should not, be construed as a warranty or guarantee regarding the presence or absence of hazardous substances or petroleum products that may affect the subject property. The report is not intended to make any representation concerning title or ownership to the subject property. If real property records were reviewed, they were reviewed for the sole purpose of determining the subject property's historical uses. All findings, conclusions, and recommendations stated in this report are based on the data and information provided to Aspect, current use of the subject property, and observations and conditions that existed on the date and time of the report.

Aspect structures its services to meet the specific needs of our clients. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and subject property. This report should not be applied for any purpose or project except the purpose described in the Agreement.

This Report Is Project-Specific

Aspect considered a number of unique, project-specific factors when establishing the Scope of Work for this project and report. You should not rely on this report if it was:

- Not prepared for you
- Not prepared for the specific purpose identified in the Agreement
- Not prepared for the specific real property assessed
- Completed before important changes occurred concerning the subject property, project or governmental regulatory actions

If changes are made to the project or subject property after the date of this report, Aspect should be retained to assess the impact of the changes with respect to the conclusions contained in the report.

Geoscience Interpretations

The geoscience practices (geotechnical engineering, geology, and environmental science) require interpretation of spatial information that can make them less exact than other engineering and natural science disciplines. It is important to recognize this limitation in evaluating the content of the report. If you are unclear how these "Report Limitations and Use Guidelines" apply to your project or site, you should contact Aspect.

Discipline-Specific Reports Are Not Interchangeable

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually address any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding the subject property.

Environmental Regulations Are Not Static

Some hazardous substances or petroleum products may be present near the subject property in quantities or under conditions that may have led, or may lead, to contamination of the subject property, but are not included in current local, state or federal regulatory definitions of hazardous substances or petroleum products or do not otherwise present potential liability. Changes may occur in the standards for appropriate inquiry or regulatory definitions of hazardous substance and petroleum products; therefore, this report has a limited useful life.

Property Conditions Change Over Time

This report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time (for example, Phase I ESA reports are applicable for 180 days), by events such as a change in property use or occupancy, or by natural events, such as floods, earthquakes, slope failure or groundwater fluctuations. If more than six months have passed since issuance of our report, or if any of the described events may have occurred following the issuance of the report, you should contact Aspect so that we may evaluate whether changed conditions affect the continued reliability or applicability of our conclusions and recommendations.

Phase I ESAs – Uncertainty Remains After Completion

Aspect has performed the services in general accordance with the scope and limitations of our Agreement and the current version of the "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process", ASTM E1527, and U.S. Environmental Protection Agency (EPA)'s Federal Standard 40 CFR Part 312 "Innocent Landowners, Standards for Conducting All Appropriate Inquiries".

No ESA can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with subject property. Performance of an ESA study is intended to reduce, but not eliminate, uncertainty regarding the potential for environmental conditions affecting the subject property. There is always a potential that areas with contamination that were not identified during this ESA exist at the subject property or in the study area. Further evaluation of such potential would require additional research, subsurface exploration, sampling and/or testing.

Historical Information Provided by Others

Aspect has relied upon information provided by others in our description of historical conditions and in our review of regulatory databases and files. The available data does not provide definitive information with regard to all past uses, operations or incidents affecting the subject property or adjacent properties. Aspect makes no warranties or guarantees regarding the accuracy or completeness of information provided or compiled by others.

Exclusion of Mold, Fungus, Radon, Lead, and HBM

Aspect's services do not include the investigation, detection, prevention or assessment of the presence of molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detection, assessment, prevention or abatement of molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts. Aspect's services also do not include the investigation or assessment of hazardous building materials (HBM) such as asbestos, polychlorinated biphenyls (PCBs) in light ballasts, lead based paint, asbestos-containing building materials, urea-formaldehyde insulation in on-site structures or debris or any other HBMs. Aspect's services do not include an evaluation of radon or lead in drinking water, unless specifically requested.