SUBMITTED TO:
Earle M. Jorgensen Company
10650 S. Alameda Street
Lynwood, CA 90262

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BY:
Shannon & Wilson
400 N. 34th Street, Suite 100
Seattle, WA 98103

(206) 632-8020
www.shannonwilson.com

DRAFT FOR PUBLIC COMMENT

REMEDIAL INVESTIGATION REPORT

Jorgensen Forge Corporation Property

TUKWILA, WASHINGTON

SHANNON & WILSON

March 10, 2025

Shannon & Wilson No: 21-1-12596-040

Submitted To: Earle M. Jorgensen Company
10650 S. Alameda Street
Lynwood, CA 90262

Subject: DRAFT FOR PUBLIC COMMENT REMEDIAL INVESTIGATION REPORT, JORGENSEN FORGE CORPORATION PROPERTY, TUKWILA, WASHINGTON

This Remedial Investigation (RI) Report has been prepared on behalf of Earle M. Jorgensen (EMJ) for submission to the Washington State Department of Ecology (Ecology). Shannon & Wilson participated in this project as a consultant to EMJ under an Environmental Services Agreement dated February 17, 2017.

The RI activities are being completed by EMJ under Agreed Order (AO) number DE 14143, issued by Ecology and dated July 28, 2017. EMJ owned the property from 1965 to 1992 and has assumed responsibility for implementing RI activities at the site pursuant to the AO under the Model Toxics Control Act (MTCA) and MTCA's implementing regulations.

Sincerely,

SHANNON & WILSON

Shoshana Howard, PE
Associate Engineer

Meg Strong, LG, LHG
Senior Consultant

SKH:MJS/skh

EXECUTIVE SUMMARY

This Remedial Investigation (RI) Report has been prepared on behalf of Earle M. Jorgensen (EMJ) for submission to the Washington State Department of Ecology (Ecology) to document RI activities completed by EMJ under Agreed Order (AO) number (No.) DE 14143. The RI activities were completed at Jorgensen Forge Corporation (JFC) property located at 8531 East Marginal Way South, City of Tukwila, Washington (Site).

The RI field activities began in October 2020 and mostly concluded in December 2021. The work included collection of soil samples, installation of groundwater monitoring wells, groundwater monitoring and sampling, light nonaqueous phase liquid (LNAPL) monitoring, hydraulic conductivity testing, LNAPL delineation and transmissivity testing, and pavement testing. Activities were completed in accordance with the RI Work Plan (Shannon & Wilson, 2020a) and supplemental memoranda (Shannon & Wilson, 2020b and 2021). Additional per- and polyfluoroalkyl substances (PFAS) investigation activities were completed between September 2022 and February 2023. The PFAS investigation was completed in accordance with the PFAS investigation work plan (Shannon & Wilson, 2022). Key findings from the PFAS investigation have been included within this report, with details provided within the PFAS Investigation Report appended to this report.

Additionally, in 2023 and 2024, the current property owner (Star Forge, LLC) completed Clean Closure Activities and Interim Actions at the Site, along with demolition of Site buildings, grading, and paving of portions of the property. Key findings from the Star Forge activities provided to Shannon & Wilson have been incorporated into this report.

As would be expected for a manufacturing facility in operation for over 70 years, this and prior investigations have identified impact to soil and groundwater at several locations on the Site. At most locations, observed impacts were minor. The detected chemicals from investigations were screened against the most stringent preliminary cleanup levels for the Lower Duwamish Waterway (LDW) upland sites and chemicals that remained were assessed for their potential to impact relevant receptors. In some cases, it appears that the exceedance of some preliminary screening levels arises from anaerobic groundwater conditions generated by decaying organic material (both naturally occurring in soil and from hydrocarbon breakdown) that results in leaching of naturally occurring metals. In those cases, the detected chemicals have been retained as chemicals of potential concern (COPCs) and their likely cause is noted in the text of the report.

Based on this review of site conditions and the data collected during the RI and past investigations, the following areas of concern (and their associated Indicator Hazardous Substances) have been identified at the Site:

- Area 1 Cutting Oil Contamination: total petroleum hydrocarbons (TPH) as diesel-range (TPH-D) and oil-range (TPH-O) in soil and groundwater.
- Area 2 Hydraulic Oil and Diesel Contamination: TPH-D and TPH-O in soil and groundwater, and TPH as gasoline-range (TPH-G) in soil.
- Area 3 Former Gasoline Underground Storage Tanks (USTs): TPH-G in soil and groundwater below northernmost UST excavation, and TPH-G in soil below center UST excavation.
- Area 4 Decommissioned Oil Storage Area: TPH-D and TPH-O in soil and groundwater, and TPH-G in soil.
- Shipping Area: TPH-G in soil and groundwater.
- Storage Area (in the southwest corner of the Site): TPH-D, TPH-O, and polychlorinated biphenyls (PCBs) in soil and groundwater.
- Steam Clean Area: TPH-D and TPH-O in groundwater.
- Northwest Corner: TPH-G, TPH-D, and TPH-O in soil; and TPH-D in groundwater.
- Shoreline and Embayment: PCBs in soil in the near shore areas, and PCBs in groundwater at MW-39.
- PFAS Release Area: Perfluorooctanesulfonic acid (PFOS) in soil and groundwater.
- South of Boeing's Other Area 11 (OA-11): PCBs in soil.

It is our opinion that the RI has adequately addressed data gaps identified during the work plan preparation process.

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Important Information

ACRONYMS

µg/L	micrograms per liter
1,1-DCE	1,1-dichloroethene
8801	8801 Marginal Way S site
AFFF	aqueous film forming foam
AHTB	Aluminum Heat Treat Building
AO	Agreed Order
AOC	Administrative Order on Consent
ARI	Analytical Resources, Inc.
AST	aboveground storage tank
B	Analyte was detected in the method blank. Flag applied by the laboratory.
BEHP	bis (2-ethylhexyl) phthalate
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CAA	Central Accumulation Area
CMP	corrugated metal pipe
COCs	chemicals of concern
COPCs	chemicals of potential concern
cPAHs	carcinogenic polycyclic aromatic hydrocarbons
D	The reported value is from a dilution. Flag applied by the laboratory.
DAHP	Department of Archaeology and Historic Preservation
DCAP	draft cleanup action plan
DOH	Department of Health
DWMU	Dangerous Waste Management Unit
EAA	Early Action Area
EC	equivalent concentration
Ecology	Washington State Department of Ecology
EMJ	Earle M. Jorgensen
EPA	U.S. Environmental Protection Agency
FS	feasibility study
GE	General Electric
HSA	hollow-stem auger
HVOC	halogenated volatile organic compound
IDP	Inadvertent Discovery Plan
J	Estimated concentration, detected greater than the detection limit and less than the reporting limit. Flag applied by the laboratory.
J*	Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson.
JFC	Jorgensen Forge Corporation

ACRONYMS

JFOS	Jorgensen Forge Outfall Site
JH*	Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson.
JL*	Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson.
KCIA	King County International Airport
LDW	Lower Duwamish Waterway
LIF	laser-induced fluorescence
LNAPL	light nonaqueous phase liquid
mg/kg	milligram per kilogram
MTBE	methyl tert-butyl ether
MTCA	Model Toxics Control Act
NAPL	nonaqueous phase liquid
NAVD88	North American Vertical Datum 88
ng/L	nanogram per liter
No.	number
NSZD	Natural Source Zone Depletion
OA-11	Other Area 11
PAHs	polycyclic aromatic hydrocarbons
PC	Project Coordinator
PCBs	polychlorinated biphenyls
PCE	tetrachloroethene
PCUL	Preliminary Cleanup Level
PFAS	per and polyfluoroalkyl substances
PFBS	perflurobutanesulfonic acid
PFHpa	perfluoroheptanoic acid
PFHxS	perfluorohexanesulfonic acid
PFNA	perfluorononanoic acid
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
PM	Project Manager
PQL	practical quantitation limit
QAPP	Quality Assurance Project Plan
RA	remediation area
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RL	reporting limit
SAL	State Action Level
Site	8531 East Marginal Way South, City of Tukwila, Washington

ACRONYMS

SVOCs	semivolatile organic compounds
TCE	trichloroethene
TCLP	Toxicity Characteristic Leaching Procedure
TEE	Terrestrial Ecological Evaluation
TEQ	toxicity equivalent quotient
TPH-D	total petroleum hydrocarbons as diesel-range
TPH-G	total petroleum hydrocarbons as gasoline-range
TPH-O	total petroleum hydrocarbons as oil-range
TSA	Tote Storage Area
UCMR	Unregulated Contaminant Monitoring Rule
UST	underground storage tank
VOCs	volatile organic compounds
WAC	Washington Administrative Code

1 INTRODUCTION

This Remedial Investigation (RI) Report has been completed on behalf of Earle M. Jorgensen (EMJ) under Agreed Order (AO) No. DE 14143, issued by the Washington State Department of Ecology (Ecology) and dated July 28, 2017 (Ecology, 2017). EMJ owned the property located at 8531 East Marginal Way South, City of Tukwila, Washington (Site) from 1965 to 1992 and has assumed responsibility for taking RI and feasibility study (FS) activities at the Site pursuant to the AO and under the oversight of Ecology. Under the AO, EMJ also will prepare a draft cleanup action plan (DCAP) for the Site. The location of the Site is shown in Figure 1.

Most of the RI activities reported herein were completed between October 2020 and December 2021 and included collection of soil samples, installation of groundwater monitoring wells, groundwater monitoring and sampling, light nonaqueous phase liquid (LNAPL) monitoring, hydraulic conductivity testing, LNAPL delineation and transmissivity testing, and pavement testing. Activities were completed in accordance with the RI Work Plan (Shannon & Wilson, 2020a) and supplemental memoranda (Shannon & Wilson, 2020b and 2021). Additional per- and polyfluoroalkyl substances (PFAS) investigation activities were completed between September 2022 and February 2023. The PFAS investigation was completed in accordance with the PFAS investigation work plan (Shannon & Wilson, 2022). Key findings from the PFAS investigation have been included within this report, with details provided within the PFAS Investigation Report (Appendix H).

From 1992 to 2016, the property was owned and operated by Jorgensen Forge Corporation (JFC). Following JFC's bankruptcy, the Site became owned by Star Forge, LLC. In October 2018, Star Forge ceased operations at the facility. Star Forge intends to sell the property and is pursuing Clean Closure under Washington State's Dangerous Waste requirements. Events that occurred and information obtained during Star Forge's Clean Closure process led Ecology to name Star Forge as a potentially liable person for the release of hazardous substances at the Site. On April 18, 2023, Star Forge entered into an AO (No. DE21034) with Ecology (Ecology, 2023) to conduct an Interim Action at the Site to permanently close underground storage tank (UST) systems, decontaminate and/or remove concrete and asphalt slabs at the Dangerous Waste Management Units (DWMUs), and remove limited soil to facilitate paving. Star Forge completed its Clean Closure activities and Interim Actions in 2023 and 2024, along with demolition of the entire facility. Star Forge's consultant issued a UST decommissioning and site assessment report (DH Environmental, Inc., 2024c) and a final dangerous waste clean closure report (DH Environmental, Inc., 2024a) in May 2024. An interim action completion report was issued in July 2024 (DH

Environmental, Inc., 2024b). Text, tables, figures, and selected appendices from the three Star Forge reports are included within Appendix I.

1.1 General Site Information

The Site is located at 8531 East Marginal Way South in Tukwila, Washington (Figure 1). It is comprised of an approximately 20-acre parcel identified as King County tax parcel 0001600023. The Site is located on the east bank of the Lower Duwamish Waterway (LDW) at approximately LDW River Mile marker 3.6, between Slips 4 and 6. Slip 5 was historically located on the adjacent property to the south of the Site, but was filled in between approximately 1936 and 1966. The Site is bordered to the east by East Marginal Way South, beyond which lies the King County Airport. The adjacent properties to the north and south of the Site are currently owned by The Boeing Company (Boeing Plant 2 to the north and Boeing Isaacson property to the south).

A sheet pile/concrete panel bulkhead bounds the property along the southwestern shoreline. The remaining western boundary of the Site consists of a sloped shoreline. In 2014, in association with sediment remediation and to prevent bank erosion, approximately 540 feet of Site shoreline north of the sheet pile/concrete panel bulkhead were excavated to decrease the slope angle and to cover with shoreline containment material (amended with granulated activated carbon), armor material, and habitat substrate (Farallon Consulting, Inc., 2017). Figures 2A and 2B show the positions of the historic and current top of shoreline bank, which are labeled as "Top of Shoreline Bank (2012)" and "Top of Shoreline Bank (2014)," respectively.

The western property line mostly follows the current top of the shoreline bank, except at the southern end of the Site. At the southern end of the Site, the former buildings associated with the Former Melt Shop encroached over the western property line onto Port of Seattle land (Leidos, Inc., 2018). The Port of Seattle-owned property occupies a sliver of land west of most of the property boundary and east of the bulkhead.

The Site is situated within Section 42, Township 24 North, Range 4 East of the Willamette Meridian in King County. Though the property has a Seattle mailing address, it is located within the City of Tukwila. It is zoned for heavy industrial use (M2), which is the highest intensity use classification by the City of Tukwila Planning Department.

Between 1942 and October of 2018, metal parts for various uses were manufactured during facility operations (Site history and use details are provided in Appendix A). The facility was shut down in October 2018 and the plant commenced decommissioning in late 2018. The equipment that was used at the Site has been removed and Site structures were

demolished between 2023 and 2024. The following sections include a description of the Site and a summary of the project organization.

1.2 Site Description

Site plans depicting conditions prior to the recent demolition work and post-demolition are provided as Figures 2A and 2B, respectively.

As shown in Figure 2A, the property was developed with an approximately 124,000-square-foot prefabricated steel building (main building). The main building was generally divided into the Hollowbore Area, the Machine Shop Area, the Heat Treat Area, the Forge Shop Area, and the Former Melt Shop Area. At the southeastern corner of the Site, to the east of the main building, was the Aluminum Heat Treat Building (AHTB) and Rectifier Room, which was formerly a Power House. A wood-frame office building was located within the northeastern portion of the Site, to the north of the main building. The concrete-paved central portion of the Site was used for parking and storage of finished product, unused equipment, and materials. A stormwater treatment system was situated in the center of the property to the north of the Former Melt Shop Area of the former main building (the treatment system remains on the property). A wood-frame laboratory, used to conduct physical testing on metal products, and offices was located within the center of the property to the east of the stormwater treatment system. A Former Metals Storage Area was in the southwestern portion of the Site. The area was used to store slag, chips, and swarf until January 2015, when it was closed.

Asphalt, concrete paving, and buildings covered much of the Site. Portions of the ground surface along the western and northwestern areas of the property were covered with gravel that was placed in approximately 1990. Railroad spur lines, located along the northern and southern ends of the Site, were also unpaved. Additionally, the far western portion of the Former Metals Storage Area and the area south of the Forge Shop Area were unpaved. Unpaved surfaces prior to the recent demolition work are shown in Figure 2A.

As shown in Figure 2B, the Site currently consists of a fenced lot, the majority of which is paved with asphalt or concrete. Portions of the ground surface remain unpaved, consisting of areas along the western and northwestern areas of the property, the railroad spur lines along the northern and southern ends of the Site, and the area south of the former Forge Shop Area. The stormwater treatment system remains in the center of the property. As part of the demolition activities completed by Star Forge, unpaved areas within the main building have been paved, as well as a large portion of the southwestern corner of the Site. Engineered covers were placed over four former vaults (Figure 2B).

1.3 Regulatory Status

The Site is identified as Ecology Facility Site No. 2382 and Cleanup Site No. 3689. RI, FS, and DCAP activities are being completed under AO No. DE 14143.

The LDW Superfund Site lies immediately adjacent to the western side of the Site. The Selected Remedy for the LDW Superfund Site consists of three components: (a) identification and cleanup of Early Action Areas (EAAs), which are the most contaminated areas in the waterway; (b) controlling sources of contamination to the waterway; and (c) cleanup of remaining contamination in the waterway and long-term monitoring (U.S. Environmental Protection Agency [EPA], 2014).

EPA is managing the sediment investigation and remediation for the LDW Superfund Site (components 1 and 3 of the Selected Remedy). Ecology is responsible for managing upland areas that may discharge to the LDW to minimize recontamination of the sediments (component 2 of the Selected Remedy). Work completed under the AO is part of component 2 of the Selected Remedy for the LDW Superfund Site.

Two areas discussed within this document are addressed under EPA oversight, and are not included in the Site as defined within the AO. These include the following:

- LDW sediments and the shoreline bank located to the west of the historic top of shoreline bank (Figures 2A and 2B) are being addressed under the oversight of the EPA as the Jorgensen Forge EAA for the LDW Superfund Site under Administrative Order on Consent (AOC) No. 10-2013-0032.
- The Jorgensen Forge Outfall Site (JFOS), which consists of two stormwater conveyance pipelines that run from east to west along the northern property boundary and discharge to the LDW in the northwest corner of the Site, was completed under EPA oversight under AOC No. 10-2011-0017. The JFOS is further discussed in Section 1.6.4.

As a result of remedial activities completed in 2014 for the Jorgensen Forge EAA, the top of shoreline bank shifted inland to the east as previously discussed. The historic top of shoreline bank and current top of shoreline bank are both shown in Figures 2A and 2B and labeled as "Top of Shoreline Bank (2012)" and "Top of Shoreline Bank (2014)", respectively. For consistency, the area between the two lines (referred to herein as the shoreline wedge), will be treated as part of the Site. However, it should be noted that the shoreline wedge was partially remediated under EPA oversight in 2014 and is Port of Seattle property.

According to the Department of Archaeology and Historic Preservation (DAHP) Washington Information System for Architectural and Archaeological Records Data database, the Site is in an area that is designated as “Survey Highly Advised: Very High Risk.” To support compliance with state cultural resource protection laws, EMJ retained an

archaeological company (Stell) to develop an Inadvertent Discovery Plan (IDP) for the RI activities, obtain DAHP approval of the IDP prior to the RI work, and retained an archaeologist who observed the removed soil during the subsurface investigative phases of the RI work and PFAS investigation.

1.4 Project Organization

The various parties that have interest in the Site are described below.

1.4.1 Earle M. Jorgensen Company

EMJ owned the Site property from 1965 to 1992 and has assumed responsibility for taking remedial actions at the Site under the oversight of Ecology pursuant to AO No. DE 14143 under Washington's Model Toxics Control Act (MTCA) and MTCA's implementing regulations. The EMJ Project Manager (PM) is Ash Botros. Deliverables are directed to the EMJ PM.

1.4.2 Washington State Department of Ecology

The Ecology Project Coordinator (PC) is currently Beau Johnson. The Ecology PC is responsible for reviewing and approving the work performed during the investigation and ensuring successful completion of the AO requirements.

1.4.3 Star Forge LLC/Jorgensen Forge Corporation

Star Forge took ownership of the Site property in 2016 following JFC's bankruptcy. Star Forge operated the Site until October 2018, when the facility was shut down. Star Forge has granted EMJ, Ecology, and any consultant or contractor EMJ engages, non-exclusive access to the Site for the purpose of completing investigations and remedial actions. The Star Forge facility contact is Wayne Turk.

DH Environmental, LLC is providing environmental consulting services to Star Forge with respect to their Clean Closure process and AO interim actions.

1.4.4 Shannon & Wilson

Shannon & Wilson is providing environmental consulting services to EMJ. The Shannon & Wilson PC is Meg Strong. The PC serves as EMJ's and Ecology's principal point of contact for the project. The PC is responsible for overseeing the implementation of the AO. To the maximum extent possible, communications between Ecology and EMJ, and documents, including reports, approvals, and other correspondence, are directed through the PC.

The Shannon & Wilson PM is Shoshana Howard. The Shannon & Wilson PM is responsible for coordinating the project's planning and implementation, and is overseeing field sampling, data interpretation, and reporting activities.

1.5 Site History and Use

The Site is located adjacent to and east of the LDW. Fill, dredged from the LDW, was placed across the eastern approximate two-thirds of the Site in late 1931, possibly to raise the elevation of the property. A drainage ditch previously ran along the northern property line. The drainage ditch was used for agricultural drainage up until the 1930s. Exhibit A-1 of Appendix A shows the 1931 fill placement and drainage ditch. In the mid-1930s, King County constructed a 24-inch-diameter clay and corrugated metal pipeline along the northern property line that was then used to drain a portion of the newly constructed King County Airport to the east. By mid-1942, Boeing constructed a 12-inch pipe composed of clay and corrugated metal parallel to the 24-inch pipe concurrent with the development of the southern end of Boeing Plant 2. The primary users of the stormwater lines were Boeing Plant 2, and to a lesser extent, King County Airport. The Bethlehem Pacific Coast Steel Company (Bethlehem Pacific) facility was connected to the 24-inch pipe until the early 1960s, and in 1996, the City of Tukwila connected to the line. (Further discussion regarding the stormwater lines is provided in Section 1.6.4.) The 12-inch pipe was used until the mid-1990s and the 24-inch pipe was used until 2011.

The western end of the Site was occupied by an embayment of the LDW until it was filled in 1944. To fill the embayment, a bulkhead was constructed and approximately 55,000 cubic yards of dredged material taken from between Slips 5 and 6 (Section 1.6.5) in the LDW was placed behind the bulkhead.

The Site was first developed by Isaacson Iron Works for the U.S. Navy in 1942 during World War II to produce propeller shafts and other naval equipment. Between 1945 and 1965, Isaacson fabricated custom steel and aluminum parts on the Site; operations included forging, heat treating, and machining. Bethlehem Pacific owned the northwestern portion of the Site from 1949 until 1965 and operated a steel fabrication facility that was removed prior to the sale of the property. EMJ purchased the Site, including the Bethlehem Pacific property, in 1965. EMJ owned and operated the facility until 1992 when JFC acquired the property as part of a stock transaction. In 2016, Star Forge, LLC took ownership of the Site following JFC's bankruptcy. Star Forge operated the facility until they shut down operations in 2018.

From 1964 until 2018, operations at the Site remained relatively unchanged (except the forge was shut down in 2015). The Site was a steel and aluminum forge and mill that produced

custom steel and aluminum parts forged and machined to high precision specifications for various industrial clients. Major operations conducted at the Site have included:

- Forging steel ingots into billets and/or shape forgings,
- Heat-treating forged steel and purchased aluminum products,
- Grinding and machining steel billets to required specifications,
- Ring rolling and/or expanding aluminum products to required specifications, and
- Swarf: Pieces of metal formed as a byproduct of metal machining, also referred to as chips, turnings, filings, and shavings.

Site history and site use are described in greater detail within Appendix A. Within the RI Work Plan (Shannon & Wilson, 2020a), the Site was broken into nine areas (Areas 1 through 9) to aid in discussion and evaluation of previously collected environmental data. Site area boundaries were selected based on activities conducted within the areas and chemical usage associated with the area-specific activities. Areas 1 through 4 were generally consistent with numbers assigned by SECOR during investigation completed in the 1990s. Appendix A includes summaries of each of the Site areas, including major Site features. Because the nine Site areas were not "areas of concern," the discussion within this RI report is not organized by those same Site areas. Instead, discussion within this report (specifically within Section 4), is organized by areas of interest (though the areas and names of Areas 1 through 4 continue to be used).

1.6 Adjacent Properties

1.6.1 Boeing Plant 2 Facility

Boeing owns the adjacent property to the north of the Site, known as Boeing Plant 2. The facility occupies approximately 107 contiguous acres and has been used since 1936 to manufacture aluminum alloy, steel alloy, and titanium alloy parts for airplanes. Manufacturing processes included machining, parts cleaning, vapor degreasing, chemical milling and clean etching, electroplating, chemical conversion coating, toolmaking, painting and paint stripping, and reclamation of silver from photographic fixers (Roy F. Weston, Inc., 1998). The area immediately adjacent to the Site (known as Area 2-66 and the South Yards, shown in Figures 2A and 2B) was developed in two phases; the eastern area in approximately 1936 and the western area in 1942 (Floyd | Snider and Weston Solutions, Inc., 2005).

Soil and groundwater at the Boeing Plant 2 facility has been impacted with PCBs, metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and petroleum hydrocarbons. Boeing Plant 2 is under an EPA Resource Conservation and

Recovery Act (RCRA) AOC to investigate and evaluate cleanup options. Several interim measures have been undertaken in the South Yards area, including removal of "PCB-contaminated joint caulk, cleaning up storm drains to reduce metals and PCBs, removal of contaminated soils, and treating contaminated soils and groundwater" (EPA, 2018).

Boeing completed sediment and shoreline remediation in 2015 as an EAA for the LDW Superfund Site. Remaining cleanup activities are focused on nine uplands source areas referred to as remediation areas (RAs) (EPA, 2018). RAs 4, 5, and 9, located closest to the Site, are as follows:

- RA 4 – 2-66 Sheet Pile and Surrounding Area: located adjacent to the northwestern corner of the Site. Groundwater within RA 4 is contaminated with chlorinated VOCs, benzene, toluene, ethylbenzene, and xylene (BTEX), naphthalene, metals, cyanide, total petroleum hydrocarbons (TPH) as gasoline-range (TPH-G) and diesel-range (TPH-D), and PCBs.
- RA 5 – South Yard Area: located east of the 2-66 Area and adjacent to the Site. Groundwater within RA 5 is contaminated with chlorinated VOCs, BTEX, arsenic, zinc, and TPH-D. Soil within RA 5 is contaminated with PCBs and TPH as oil-range (TPH-O).
- RA 9 – Other Area 11 (OA-11): located within the 2-66 Area adjacent to the Site. OA-11 includes Boeing Building 2-72 and a former Seattle City Light substation. Soil and groundwater within RA 9 are contaminated with PCBs and TPH. Remedial activities were completed in 2016; however, additional investigations have identified contamination extending from OA-11 onto the Site.

Select figures and tables pertaining to the Boeing Plant 2 facility are provided in Attachment B-1 of Appendix B.

1.6.2 Boeing Isaacson-Thompson Site

Boeing also owns the adjacent property to the south of the Site. The property consists of two parcels; the Isaacson parcel to the north and the Thompson parcel to the south. The properties are collectively known as the Boeing Isaacson-Thompson site. The following Site history has been taken from the final remedial investigation report for the Boeing Isaacson-Thompson site (Landau Associates and AMEC Environment & Infrastructure, Inc., 2014). The approximately 29-acre property was historically tidal marsh with a meander of the LDW occupying the center of the property. Following channelization of the river between 1910 and 1917, the meander of the LDW became Slip 5, which occupied a portion of the property. Between approximately 1936 and 1966, the slip was filled with slag, random fill, and construction debris.

Boeing purchased the Isaacson property in 1984. Prior to Boeing's ownership of the parcel, activities on the Isaacson property included operation of a sawmill, operation of a planing

mill, operation of a wood preservation company that used arsenic and sulfate salts of copper and zinc, and activities associated with the Isaacson steel fabrication operations, including storage of scrap metal and operation of a galvanizing plant. After Boeing purchased the Isaacson property, they used the building on the parcel for storage until demolishing the building in 1989/1990.

Remediation activities (by excavation) were undertaken between 1984 and 1991, with early work removing arsenic and zinc containing soil and later work removing or stabilizing arsenic-contaminated soil. The parcel has remained undeveloped. The northwestern sliver of the Isaacson property is owned by the Port of Seattle.

Boeing purchased the Thompson facility in 1956. A sawmill (Bissell Lumber) operated on the Thompson facility for approximately 35 years prior to Boeing's ownership of the parcel. Boeing developed the facility beginning in 1966. It was used for assembling, testing, painting, and washing of aircraft and included an industrial building, mechanical buildings, and other support buildings.

Currently, the Isaacson property is used intermittently for storage. The Thompson property is used for the Boeing P-8 program.

According to Ecology (2023), chemicals of concern (COCs) at the Isaacson-Thompson site include bis (2-ethylhexyl) phthalate (BEHP), metals (arsenic, barium, cadmium, chromium (total and hexavalent), copper, lead, mercury, nickel, and zinc), PCBs, carcinogenic polycyclic aromatic hydrocarbons (cPAHs), and petroleum hydrocarbons in soil; metals (arsenic, chromium, copper, nickel, and zinc), PCBs, and vinyl chloride in groundwater; metals (antimony, arsenic, and lead) in stormwater; and metals (arsenic), PCBs, polycyclic aromatic hydrocarbons (PAHs), VOCs (benzyl alcohol), benzoic acid, and phthalates in sediments. Boeing is completing a RI, FS, and DCAP under AO number DE 7088 with Ecology. The RI was completed in 2014 and the FS was approved by Ecology in early 2024. A Supplemental Shoreline Work Plan for additional investigation work was submitted to Ecology in August 2024.

1.6.3 King County International Airport

Construction of the King County International Airport (KCIA) commenced in approximately 1928. The airport served as the community's aviation center until December 6, 1941, when the U.S. Army took over the airport for strategic and production reasons. The airport remained under military authority through the end of World War II. KCIA is now a general aviation airport owned and operated by King County as a public utility. The KCIA site covers about 615 acres (Ecology, 2006).

KCIA operates storage buildings immediately adjacent to the Site. There is no reported contamination associated with these buildings. Ecology reported in 2007 that "it is unlikely that this portion of the site contributes to ongoing recontamination of EAA-4 or other areas of the LDW" (Ecology, 2007). However, part of the KCIA historically drained to a 24-inch-diameter stormwater pipeline that crosses the Site along the northern Site boundary. Contamination has been identified within and at the outfall of the 24-inch pipeline and was the subject of remediation as discussed in Section 1.6.4 below.

1.6.4 Jorgensen Forge Outfall Site

The JFOS area remediation was addressed by EPA. The JFOS is comprised of the outfall portion of two stormwater conveyance pipelines (a 24-inch pipe and a 12-inch pipe), which ran from east to west along the northern property boundary (on the Site) and drained to the LDW. The pipelines were constructed in the mid-1930s and 1942, respectively, on an easement across the northern property boundary of the Site. The 12-inch pipe received drainage from the Boeing Plant 2 facility and ran across the western end of the Site along the northern property boundary. The 24-inch pipe received drainage primarily from the Boeing Plant 2 facility, and to a lesser extent KCIA. The Bethlehem Pacific facility and the City of Tukwila also discharged for a limited period of time to the 24-inch pipeline. Three laterals connected to the 24-inch pipeline were identified on the Site, labeled in Figures 2A and 2B as the “Bethlehem Pacific 12-Inch Diameter Lateral”, the “Office Building Lateral”, and the “4-Inch Diameter Lateral.” The laterals are discussed further in Section B.1.12 of Appendix B. Both pipes on the Site property line were constructed primarily of clay. The pipes transitioned to corrugated metal pipe (CMP) near the discharge to the LDW, approximately 80 feet east of the top of bank (Floyd | Snider, 2018). As discussed previously, EPA issued an AOC for removal action for the JFOS in 2010 (AOC No. 10-2011-0017).

Investigations identified PCB contamination within the pipes, corrosion, and structural damage to the CMP sections of the pipes, and PCB contamination in soil below the CMP sections of the pipes. Video inspections completed in 2010 showed that "the clay pipe sections that lie upgradient from the CMP section retained their integrity with no open cracks or gaps" which was "confirmed by the lack of PCBs in soil samples collected near the clay section of pipe where it transitioned to CMP" (Floyd | Snider, 2018).

1.6.5 Properties Between Slips 5 and 6

The embayment area on the Site was infilled in 1944 with LDW dredge material from between Slips 5 and 6. The properties that lay south of Slip 5 are part of the Isaacson site, the Thompson site, the 8801 Marginal Way S site (8801), and the former Monsanto Chemical Company property. Dredging did not occur adjacent to the Thompson site because Bissell Lumber (the owner of the Thompson site in 1944) objected to the dredging and notes on the

permit state not to dredge in front of Bissell Lumber. Consequently, dredging likely occurred in the LDW channel adjacent to the Isaacson, 8801 and Monsanto properties. The Isaacson property (south of the Site) history has been previously discussed (Section 1.6.2).

The 8801 property was developed in 1929 by Fisher Body Company (a subsidiary of General Motors) as a veneer plant. A steel wall was constructed along the LDW waterfront, and a large warehouse was constructed on the eastern side of the property connected to East Marginal Way by a railroad on either side of the building. In 1939, General Motors leased the property to Boeing for the fabrication of airplane wings. The site was then sold in 1945 to Kenworth Motors and Boeing continued to lease the property till 1946 (AMEC, 2011).

The industrial development on the Monsanto property commenced in 1927 when I.F. Laucks built a pilot plant to formulate glue, resins, and hardeners for use in plywood manufacturing. In 1949, Monsanto purchased the property and continued the manufacture of glue, as well as paints, resins, and storage of wood preservatives (AMEC, 2011 and EPA website https://www.epa.gov/hwcorrectiveactionsites/hazardous-waste-cleanup-former-rhone-poulenc-facility-tukwila-washington).

Based on the uses of the properties between Slips 5 and 6 prior to and during 1944, it is unlikely that the dredged material used to fill the embayment contained elevated levels of PCBs. In addition, PCB analysis of the groundwater in the former embayment have been non-detect.

2 SETTING

This section discusses the geology and hydrogeology at the Site. The information is based on data collected during the RI as well as previous investigations and groundwater sampling data.

2.1 Geology

The Site is situated within the Duwamish River Valley within the Puget Lowland. The Puget Lowland is a glaciated basin located between two mountain ranges. The lowland has been glaciated at least six times in the past two million years, in between which the climate and geologic processes were similar to the present. The Duwamish Waterway drains a large area to the south of Tukwila, emptying into Puget Sound at Seattle. Bedrock hills, 35 to 40 million years old, poke through the relatively level valley bottom.

The Duwamish River Valley has been filled in with sediment from the south. It was formerly an arm of Puget Sound, but outbursts of sediment from lahars on Mount Rainer

have filled the valley to depths of 200 feet (or more) with sand and silt. The sand is mostly loose to medium dense sand, typically with characteristic red andesite clasts that originated on Mount Rainier. Periodically, ponds or lakes have formed on the alluvial plain, resulting in pockets of very soft clay. During periods when the valley was near the elevation of Puget Sound, mudflats developed, and the soil deposited was typically silt and fine sand. Organic lenses and soft clay can be found interlayered where old river channels were slowly filled with fine-grained soil and peat bogs. Over the last 100 years, the ground surface in the valley has been disturbed by filling and excavating.

The shallow subsurface geology of the Site generally consists of a mixture of silty sand, sand, and gravel, classified as fill (Hf), to depths of 2 to 24 feet below ground surface (bgs) with the thickest fill occurring in the northwest portion of the Site adjacent to the LDW and within the former embayment area. Previous borings in areas along the eastern portion of the Site do not designate fill soils, although the near-surface soils in these areas are similar to the fill soils encountered across other areas of the Site. A review of historical photographs for the Site vicinity (Appendix A) indicates that prior to the 1940s, much of the western portion of the Site was an embayment of the Duwamish River. Aerial photographs and historical U.S. Army Corps of Engineers records indicate that the embayment was filled in 1944.

Alluvial sediment comprised of sand, silt, and clay underlie the fill to depths of at least 81.5 feet bgs, as indicated in the deepest on-site boring (PL2-JF01C). The silt and clay deposits generally occur from 8 to 14 feet bgs and may have also been deposited through estuarine or tideflat processes. Below approximately 14 feet, the alluvial sediment consists of interbedded sandy silt, silty sand, and sand with an occasional silt interbed.

Geologic cross sections have been generated using existing Site borings. Cross section locations are shown in Figure 3 and cross sections are presented within Figures 4 through 10. The cross sections suggest some of the geologic units can be correlated between borings and across portions of the Site.

In general, the soil observed throughout most of the Site (excluding the area nearest the Duwamish River) consist of the following stratum layers (or horizons), listed as encountered from shallowest to deepest:

- ***Well-graded sand (SW)*** very loose to very dense, brown to gray, dry to damp, fine- to coarse-grained, trace to few fines, no to some fine gravel, occasionally poorly graded (SP), occasionally with gravel (SPG). Variable thickness but typically encountered from approximately 0 to 10 feet bgs (approximately 10 feet thick). Can be thinner (0 to 5 feet bgs, 5 feet thick) or thicker (0 to 15 feet bgs, 15 feet thick) in places.

- ***Silt (ML) to Clay (CL) (if present)*** soft, brown to gray, black in places, moist to wet, slightly plastic, sandy in places, organics common, occasional marine/organic odor. Variable thickness but typically encountered from approximately 10 to 13 feet bgs. Can be thinner (8 to 9 feet bgs, 1 foot thick) or thicker (8 to 14 feet bgs, 6 feet thick) in places.
- ***Poorly graded sand (SP)*** loose to medium dense, most commonly black, brown to gray in places, wet, fine- to coarse-grained, trace silt, occasional marine/organic odor. Typically the underlying soil type of the general Site stratigraphy, encountered to a depth of 60 feet. Typically encountered at 14 feet bgs.

Soil types observed nearer the Duwamish River are highly variable and do not typically follow a general stratigraphic sequence. In general, the soil nearer the Duwamish River are siltier compared to more upland soil. Fill material is common within the vicinity of the former wharf and embayment area. Soil types observed nearer the Duwamish River include silts, sands, and gravels (as well as any combination of the three) as well as the fill material mentioned above.

2.2 Hydrogeology/Groundwater System Characteristics

This section discusses the hydrogeology at the Site; the groundwater elevations, flow direction, and gradients; the tidal influence from the LDW; and results of aquifer testing (e.g. slug tests). Monitoring wells completed at the Site are summarized in Table 1 and water level measurements and groundwater elevations are provided in Table 2.

2.2.1 Hydrostratigraphy

The Site is generally underlain by sand and silty sand, with discontinuous lenses and layers of silt and clay. The cross sections in Figures 4 to 10 show the approximate vertical and horizontal extent of the various soil units across the Site. The stratigraphy of the Site consists of fill underlain by alluvium and possible estuarine and tideflat deposits. As noted previously, much of the fill is associated with building up the surface elevation in the 1930s and the backfilling of an embayment of the LDW from 1944 to 1945. Silt and clay layers occur throughout the Site, and groundwater is observed perched above these layers and locally confined beneath these layers at some of the borings or monitoring well locations. Although locally perched or confined conditions exist, the silt and clay layers appear discontinuous and groundwater interacts above and below these layers. The entire unconfined shallow water-bearing zone beneath the Site is considered a single aquifer system and is first encountered at depths ranging from 9 to 13 feet bgs.

Most of the wells at the Site are screened within the upper 20 to 25 feet of the aquifer and are screened to include the free water surface (typically 9 to 10 feet bgs) within layers of silty sand, sandy silt, and poorly graded sand. These wells are referred to herein as "A" zone

wells. A subset of the wells at the Site are screened at greater depths; these "B" zone wells are screened within the lower portion of the upper aquifer (varying screen intervals starting as shallow as 30 feet bgs and extending as deep as 60 feet bgs).

Groundwater flow within the shallow aquifer is influenced by the presence of saline water that has intruded from the LDW (Roy F. Weston, Inc., 1998). Following the initial dredging and realignment of the waterway in 1918, saltwater extended back into the waterway and, driven by density-driven flow, intruded downward below the waterway into the aquifer (Roy F. Weston, Inc., 1998). As a result of this saltwater intrusion, a "saltwater wedge" has formed beneath the waterway. The presence of the saline water in the aquifer has been observed in monitoring wells in the shoreline bank zone adjacent to the LDW and in deep monitoring wells located on the Boeing Plant 2 facility. The groundwater in deep monitoring wells is distinctly more saline and electrically conductive than water in monitoring wells screened shallower in the aquifer (Anchor and Farallon, 2008). An isotope study of groundwater composition conducted by Weston on the Boeing Plant 2 facility indicated that saline groundwater detected in deep monitoring wells may be significantly older than the groundwater detected in shallower monitoring wells. Weston attributed the apparent stratification of the aquifer to remnant connate water in the deeper portion of the aquifer and discounted the likelihood of saltwater intrusion to groundwater from the LDW (Anchor and Farallon, 2008).

The water in the aquifers is anaerobic due to the use of oxygen by decaying of natural organic material. The naturally anaerobic groundwater conditions result in leaching of naturally occurring metals such as iron and manganese from the soil (Ecology, 2014a).

2.2.2 Historical Groundwater Elevations

Historically, groundwater elevations have typically ranged between 2 and 12 feet (North American Vertical Datum 88 [NAVD88]). Groundwater levels fluctuate daily due to tidal influences in the near shore area and seasonally due to precipitation. Tidally influenced groundwater fluctuations of up to 9 feet were observed in monitoring wells nearest the LDW in August 2017 (Section 2.2.6.1).

Historically, the depth to groundwater on the eastern portion of the Site shows a seasonal response to precipitation as the Site groundwater is shallow and unconfined (e.g. recharged in part by infiltration). Water levels measured in February 2018 (wet season) were typically 1.5 to 2 feet higher than levels measured in August 2017 (dry season).

2.2.3 2021 Groundwater Elevation Gauging

As part of the RI, groundwater elevations were gauged on a quarterly basis within approximately 2 hours of a low tide event during March, May, August, and November 2021. The timing of the groundwater elevation gauging was intended to capture the occurrence of groundwater flow toward the river during low tide. The quarterly groundwater elevation data is included as Table 2. Groundwater contour maps using "A" zone wells for March, May, August, and November 2022 are included as Figures 11A, 12A, 13A, and 14A (respectively). Within the Area 1 LNAPL plume, the groundwater contour maps incorporate wells with measurable LNAPL by converting the LNAPL thickness to water column via fluid density calculations (refer to Table 2). Because the Area 2 LNAPL plume consists of commingled products, wells with LNAPL in this area have not been included in the contouring to avoid potential inconsistencies due to variable product type. Groundwater contour maps using "B" zone wells for March, May, August, and November 2022 are included as Figures 11B, 12B, 13B, and 14B (respectively).

In general, the groundwater elevation gauging data follows historical trends. During each quarterly gauging event, groundwater was generally higher in the eastern (upland) portion of the site and lower toward the LDW. Seasonal variation in groundwater elevations were highest during the March 2021 event (wet season) and lowest during the August 2021 event (dry season).

Due to the increased number of wells used to interpolate the "A" zone groundwater contours shown on Figures 11A through 14A, a higher resolution view of the groundwater potentiometric surface can be observed (e.g., previous groundwater contour maps used approximately half the number of wells to interpolate the surface).

One prominent feature on each of the groundwater contour maps is a consistent groundwater mounding, of variable degree, that occurs approximately near the former Machine Shop area. As shown in Figures 11A through 14A, the mounding is an elongated shape extending from northwest to southeast that does not align with the east to west orientated LNAPL plume. Monitoring wells MW-18, MW-57, and MW-10R are most typically included within the mounding, though wells MW-30 and MW-55 are also sometimes included. The groundwater mounding generally overlies the western portion of the Area 1 LNAPL plume and extends to the northwest, south, and southeast of the plume. The Area 1 LNAPL plume is composed of cutting oil and has been present at the Site for decades. The mounding is postulated to be generated by the prolonged presence of the LNAPL within the aquifer matrix and the thickness of the LNAPL presence within the aquifer matrix. The reduced viscosity of the NAPL results in solids that bridge the soil pores and create a barrier to flow, leading to longer groundwater flow paths (effectively

decreasing aquifer porosity and associated hydraulic conductivity). The longer groundwater flow paths restrict the otherwise natural groundwater movement through this portion of the aquifer, leading to the observed mounding to overcome the greater resistance. Mounding in areas to the northwest and southeast suggest increased groundwater flow to the north and south of the plume, potentially circumventing the areas with decreased hydraulic conductivity.

As discussed in Section 4.3.3, bail-down tests completed between 1994 and 1996 in Area 1 resulted in faster recovery than was observed during 2021 bail-down tests, suggesting that transmissivity in Area 1 has decreased over time. This reduction in transmissivity supports the concept that soil pore biofouling associated with LNAPL is occurring within this area. This mounding theory is supported by the steep hydraulic gradient of the groundwater mounding, as aquifers with lower hydraulic conductivities generally have steeper hydraulic gradients as a result of being capable of storing more potential energy (e.g., hydraulic head). Other potential sources of the mounding have not been identified, though it is possible that there are additional contributing factors.

Mounding is also seen to a lesser extent above and upgradient of the Area 2 LNAPL plume (which is composed of comingled hydraulic oil and diesel). The mound is less pronounced in this area and was not evident during all of the monitoring events. The mounding associated with the Area 2 LNAPL plume was observed during March and May 2021, but not during August or November 2021. The nature of the mounding is similar to that of the Area 1 LNAPL plume. In Area 2, the mounding occurs on the upgradient side (with respect to groundwater flow direction) of the LNAPL plume as a result of the restriction of natural groundwater flow.

As discussed in Section B.1.11.1 of Appendix B, an interlocking steel sheet pile is present near the southwest corner of the adjacent Boeing Plant 2 property. The sheet pile (referred to as the 2-66 Sheet Pile, shown in Attachment B-1 of Appendix B) was constructed to contain trichloroethene (TCE) contamination on the Boeing Plant 2 property. The presence of the sheet pile structure results in groundwater deflection around the feature and onto the Site, which alters the flow directions in the northwest boundary area of the Site as shown on the groundwater contour figures.

2.2.4 Groundwater Flow Direction in the "A" Zone

In general, the higher resolution groundwater contour maps reflect the transient nature of groundwater flow near the LDW as well as the myriad of flow directions away from the groundwater mounding underlain the former Machine Shop. Due to the mounding and many potential groundwater flow paths, a range of "bulk" or "net" groundwater flow

directions was calculated for the Site during each of the quarterly groundwater gauging events (Figures 11A through 14A).

The net groundwater flow directions were calculated by identifying the wells with the highest and lowest groundwater elevations and connecting these points with a maximum observed gradient line. Two wells located on each side of the maximum observed gradient line were then used to triangulate equipotentials. The purpose of calculating net groundwater flow directions is to obtain a broader sense of groundwater flow direction across the entirety of the site by utilizing wells spaced furthest apart to capture flow along the steepest gradients.

The calculated net groundwater flow directions across the site persistently include a southwesterly flow component, which is consistent with previous reporting. During March and May 2021 (wetter season) the range in net groundwater flow direction includes a northwesterly flow component (Figures 11A and 12A). This northwesterly flow component, and overall range in groundwater flow direction, is not present during August and November 2021 (drier season) (Figures 13A and 14A). During the drier seasons, groundwater flow direction is apparently more directly toward the river (west to southwest).

The calculated net hydraulic gradient across the site is consistent throughout the year and ranges from 0.004 to 0.006 (foot/foot, unitless) (Figures 11A through 14A). Within this report, hydraulic gradient, which is predominately southwest, is used to interpret flow direction, rather than localized apparent flow directions, such as the mounding seen in Area 1.

2.2.5 Groundwater Flow Direction in the "B" Zone

Due to the decreased number of wells used to interpolate the "B" zone groundwater contours shown in Figures 11B through 14B, a lower resolution view of the "B" zone groundwater potentiometric surface can be observed. During March, May, and November 2021, the general "net" flow direction within the "B" zone is from the Site toward the LDW (Figures 11B, 12B, and 14B). However, during August 2021, the driest of the quarterly monitoring events, the near shore wells had higher groundwater elevation than interior Site wells in the "B" zone (Figure 13B); likely indicating groundwater outflow from this horizon was delayed due to higher tide conditions in the LDW.

2.2.6 Tidal Influences

LDW tidal influence has been observed to impact groundwater levels at the Site.

2.2.6.1 2017 Tidal Study

A tidal study was completed at the Site in 2017. The study included monitoring of groundwater levels within five select monitoring wells on the western portion of the Site from August 11 to 14, 2017. The study wells included "A" zone wells MW-39, MW-46, MW-47, and MW-52 and "B" zone well MW-43. The water levels were plotted along with estimated tidal fluctuations from the NOAA 8th Avenue South LDW station (Exhibit 2-1).

As shown in Exhibit 2-1, the study showed that groundwater elevation correlates strongly with the estimated tidal fluctuations. Nearest the LDW, groundwater fluctuations of up to approximately 9 feet were observed during a single tide change from low tide to high tide. The tidal influence at MW-43, screened within the "B" zone, was slightly slower but very similar to the influence observed at "A" zone wells MW-39 and MW-52. The tidal influence of the LDW diminished with distance from the LDW; with tidal groundwater fluctuations of less than 1 foot recorded approximately 320 feet upland (at MW-46). A diminished tidal influence was also observed at MW-47, which is a similar distance from the LDW as MW-39, MW-52, and MW-43. The reason for the diminished influence at this location is not clear; however, well MW-47 is located within the footprint of a former excavation (the SB4 excavation) where cemented material was observed. It is possible that flow at MW-47 is being impeded by the presence of cemented material.

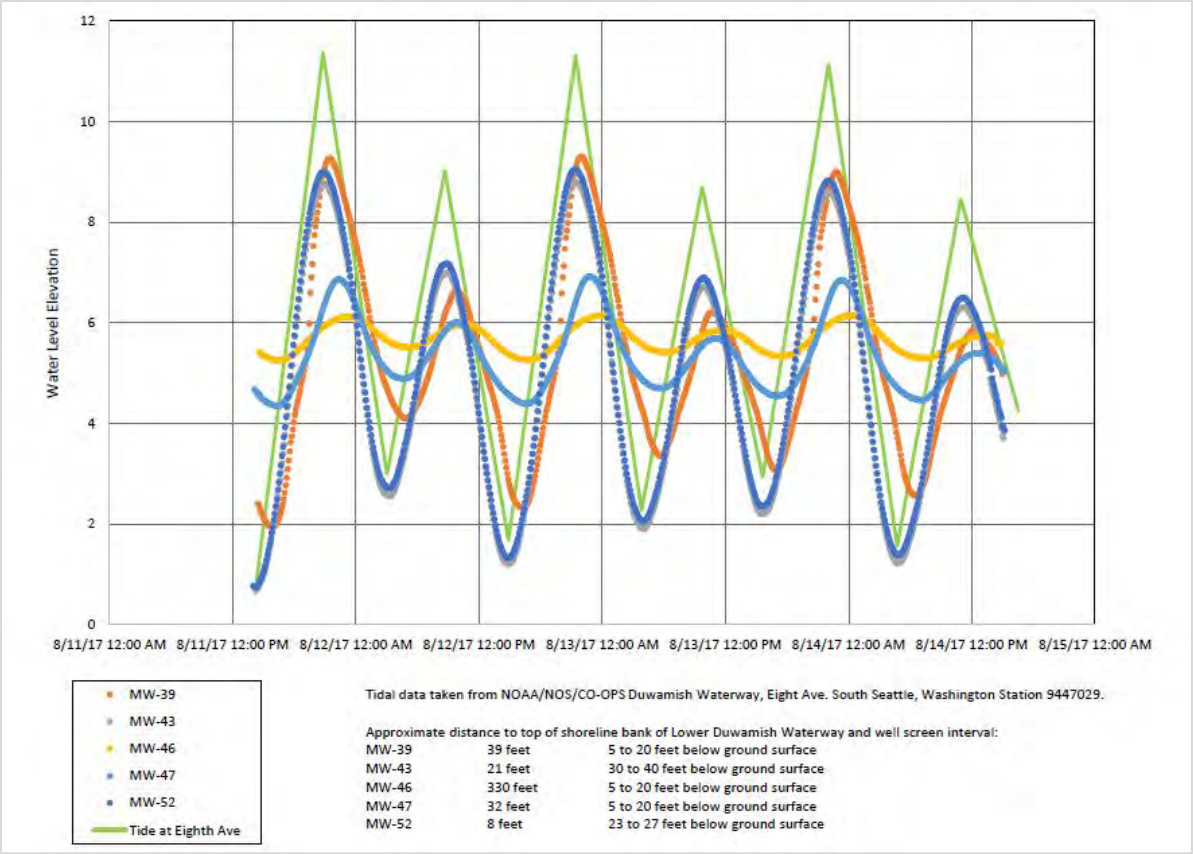


Exhibit 2-1: August 2017 Tidal Study

Tidal efficiency studies have been conducted on the adjacent Boeing Plant 2 and Boeing Isaacson properties. Both studies demonstrated that the most significant tidal effects (greater than 10%) are only observed within 400 feet of the LDW (Anchor and Farallon, 2008).

Due to the constant tidal action of the adjacent LDW influence on Site groundwater, groundwater elevation is also expected to constantly vary within approximately 400 feet of the LDW, resulting in a highly transient groundwater setting. This transient groundwater setting includes gradient reversals with respect to site groundwater and the LDW; indicating that Site groundwater both discharges to the LDW and is recharged by the LDW.

2.2.6.2 Water Level Study – MW-39 and MW-68

During the RI, water level studies were completed at two wells located near the LDW to assess whether the wells are in direct contact with the river. On June 30, 2021, transducers were placed within monitoring wells MW-39 and MW-68; the transducers were removed on July 8, 2021. Plots of the water level data collected from the wells along with the estimated

LDW stage are included on Figures 15A and 15B. Consistent with the 2017 tidal study findings, MW-39 and MW-68 are directly influenced by the adjacent LDW, as would be expected as the wells are located very near the river.

To gain further understanding of when to best sample these wells, Figure 15B highlights the times at which the water level in MW-68 is greater than that of the LDW (e.g. groundwater discharging to the LDW). As seen in Figure 15B, the times at which groundwater is discharging to the river are limited; more often, the LDW is recharging the shallow aquifer near MW-68. (Note: the LDW stage is estimated and discharge/recharge relationships between the LDW and Site groundwater would be expected to vary seasonally).

2.2.7 2021 Slug Tests

On June 30, 2021, aquifer hydraulic characteristics testing was completed at monitoring wells MW-25, MW-60, and MW-69. The aquifer testing included installation of transducers within each test well and completion of rising head slug tests (slug removal was accomplished using bailers). The rising head slug tests were completed three times per well tested.

The collected slug test data was processed and then analyzed using the Aqtesolv® software. A complete summary of the slug testing results is provided in Table C-1 of Appendix C. The resultant estimated average hydraulic conductivity from slug testing ranged from 6.82 feet/day to 38.2 feet/day with an average of 14.6 feet/day (or 0.01 foot/minute). The hydraulic conductivity estimate from slug testing is slightly lower than results from step drawdown and constant rate pumping tests performed by SECOR for Area 3 in 1993 (hydraulic conductivities ranging from 0.09 to 0.3 foot/minute), though results are within an order of magnitude. The difference in hydraulic conductivity estimates observed between the slug testing and the constant rate pumping tests may be due to the difference in aquifer volume tested with each method. Slug testing would test a very limited volume of the aquifer surrounding the well screen compared to a constant rate pumping test, which would test a much larger volume of the aquifer. Because of the larger volume of aquifer tested, constant rate pumping tests are considered a more representative aquifer test.

3 FIELD INVESTIGATIONS

3.1 Previous Environmental Investigations and Remedial Actions

Investigations began at the Site in 1990 with a preliminary site assessment and subsequent limited site characterization and have continued over the years. Previous investigation and remedial actions are detailed within Appendix B.

Previous investigation locations completed at the Site are shown in Figures B-1 through B-8 of Appendix B. Investigation efforts on the property have included:

- Investigations to evaluate Site-specific concerns, including the LNAPL plumes, referred to as the Area 1 and Area 2 plumes (Figures B-2 and B-3 of Appendix B) and gasoline contamination at the eastern end of the Site (Area 3) (Figure B-4 of Appendix B);
- Source control investigations intended to identify and address potential sources of contamination to the LDW;
- Investigations of non-Site areas under EPA oversight, including the Jorgensen Forge EAA (LDW sediments and shoreline bank) and the JFOS area;
- Boeing RCRA investigations, which have focused on Boeing Plant 2 impacts on the Site, including halogenated volatile organic compound (HVOCs) from the Boeing 2-66 Area and PCBs from Boeing's OA-11; and
- Clean Closure-related investigations conducted by Star Forge.

Several remedial actions have been taken at the Site since the early 1990s, including:

- Recovery of LNAPL from the Area 1 and Area 2 plumes;
- Removal of three gasoline USTs from Area 3, excavation of impacted soil, and operation of an in situ air injection and vapor extraction system (excavation extents shown in Figure B-4 of Appendix B);
- Excavation of PCB-impacted soil from upland areas adjacent to the shoreline, completed in advance of EAA shoreline remediation activities (excavation extents shown in Figure B-5 of Appendix B);
- Upland source control actions to mitigate potential migration of chemicals to the LDW;
- Excavation of petroleum-impacted soils, completed during foundation installation activities for capital improvement projects;
- JFOS source control/removal actions, including cleaning of the property line pipelines, sealing of the clay portions of the pipelines, and removal of the CMP portions of the pipelines and impacted soil;
- Jorgensen Forge EAA remedial actions, including sediment and shoreline removal actions and placement of shoreline containment material; and
- Clean Closure-related actions.

Data collected during previous investigations completed at the Site are summarized in Appendix B tables. Soil samples that have been excavated during interim remedial actions have been flagged with an "e" to indicate that they are no longer present on the Site.

3.2 Remedial Investigation

RI field activities began in October 2020 and concluded in December 2021. The work included LNAPL, soil, groundwater, and limited pavement investigations completed over several mobilizations. The primary scope of work included the investigations outlined within the RI Work Plan (Shannon & Wilson, 2020a), which was approved by Ecology on September 15, 2020.

Due to findings from the Star Forge Clean Closure work, during approval of the RI Work Plan (Ecology, 2020), Ecology requested additional sampling be added to the RI scope of work. Additional sampling included collection of shallow samples from unpaved locations within the Melt, Forge, and Heat Treat Shops and sampling of pavement and soil from within the Tote Storage Area (TSA) (located on the west end of the Site, labeled as "Former Acid House/Etch House/Tote Storage Area" in Figure 2A). The additional sampling approach was approved by Ecology on October 21, 2020; the approach was outlined within a memorandum (Shannon & Wilson, 2020b).

Based on the findings from soil sampling conducted during the RI along the northern property boundary, additional investigation points were completed during a follow-up mobilization. The additional sampling was outlined within a memorandum (Shannon & Wilson, 2021). Exploration locations completed during the RI are illustrated in Figures 16A (whole Site), 16B (TSA), 16C (northwest area), and 16D (south of OA-11).

In chronologic order, RI activities included:

- October 14 and 15, 2020: Preparatory field activities, including marking of proposed exploration locations, utility clearance work, and LNAPL thickness gauging.
- October 22 through 30, 2020: Laser-induced fluorescence (LIF) study to delineate the Area 1 and Area 2 LNAPL plumes.
- November 2 through 6, 2020: First of two primary drilling mobilizations and soil sampling.
- January 14 through February 5, 2021: Second of two primary drilling mobilizations, including soil sampling and well installation.
- February 10 through March 8, 2021: First quarterly groundwater monitoring and sampling event.
- April 27 through 30, 2021: LNAPL transmissivity testing.
- May 4 through 28, 2021: Second quarterly groundwater monitoring and sampling event.
- June 30 through July 8, 2021: Aquifer hydraulic characteristics testing.

- August 16 through September 2, 2021: Third quarterly groundwater monitoring and sampling event.
- October 4, 2021: Follow-up drilling mobilization and soil sampling.
- November 8 through December 3, 2021: Fourth quarterly groundwater monitoring and sampling event and LNAPL bail down testing.

The RI activities are described in the following subsections. The discussion within this section is broken into preparatory field activities and investigation activities sorted by media: LNAPL, soil, groundwater, and pavement. Field procedures are described in Appendix C. Soil, groundwater, pavement, field duplicate, trip blank, and equipment blanks samples collected and analyzed during the RI are summarized in Tables 3 through 8, respectively.

Except for groundwater samples to be analyzed for PFAS, samples taken during the RI were submitted to Analytical Resources, Inc. (ARI) for analysis in accordance with the project Quality Assurance Project Plan (QAPP) (Appendix F of the RI Work Plan). Samples for PFAS analysis were submitted to Eurofins/Test America in West Sacramento, California.

3.2.1 Preparatory Field Activities

Shannon & Wilson visited the Site to mark all proposed exploration locations on October 14, 2020. Applied Professional Services, a private utility locating company under subcontract to Shannon & Wilson, was on site with Shannon & Wilson on October 14 and 15, 2020, to assess each proposed exploration for buried utilities. On October 19, 2020, the Washington One Call utility notification was completed.

3.2.2 Light Nonaqueous Phase Liquid Investigation

LNAPL investigations were completed to provide horizontal and vertical delineation of the Area 1 and Area 2 LNAPL plumes and to provide data to support the remedial option analysis and design process. Activities included completion of LIF plume delineation, transmissivity studies, and collection of groundwater samples to support Natural Source Zone Depletion (NSZD) saturated zone evaluations. Field activities are summarized in the following subsections. Field procedures are outlined in greater detail within Appendix C. Findings are discussed in Sections 4.3 and 4.4.

3.2.2.1 Laser-Induced Fluorescence Plume Delineation

LIF technology utilizes laser light, typically within the ultraviolet spectrum, to identify the presence of nonaqueous phase liquids (NAPLs) within the subsurface. The technology uses the fact that PAHs, present within most NAPL, fluoresce. Fiber optics are used to emit

pulses of laser light from within a transparent window on the side of a direct-push probe. When NAPL is present, the emitted light causes a fluorescent response that is logged by the probe. The technology provides a continuous log and enables vertical and lateral mapping of NAPL. Evaluation of the response is completed in the field and can identify the presence of multiple products, can typically identify the NAPL that is present, and can identify type of NAPL in both the vadose and saturated zones.

In October 2020, an LIF study was completed to delineate the Area 1 and Area 2 plumes. The study was completed in advance of the soil and groundwater investigations to allow for the findings of the study to inform the subsequent RI activities.

The most recent groundwater monitoring event prior to the RI was completed in February 2018, before facility operations ceased in October 2018. To determine if facility operations ceasing had significantly altered LNAPL thicknesses, accessible LNAPL-containing monitoring wells were gauged on October 14, 2020, in advance of the LIF study. Several of the wells could not be gauged due to broken bolts or obstructions blocking access (these wells were later repaired). The LNAPL thicknesses measured during the gauging event were generally consistent with previous measurements, indicating that adjustments to the LIF investigation strategy were unnecessary.

On October 22 and 23, 2020, concrete coring was completed by Evergreen Concrete Cutting, Inc. under subcontract to Holt Services to prepare the first locations to be investigated during the LIF study. Subsequent concrete coring was completed on an as-needed basis concurrent with the LIF study.

From October 26 through 30, 2020, Shannon & Wilson, Columbia Technologies (LIF subcontractor), and Holt Drilling were on-site to complete the LIF study within Area 1 and Area 2. The study included the completion of 22 LIF borings within Area 1 (numbered A1-01 through A1-22) and 18 LIF borings within Area 2 (numbered A2-01 through A2-18). LIF borings are shown in Figure 16A (labeled as "Completed LNAPL Delineation Probe Boring"). Within both areas, the study began with two borings completed within anticipated central portions of the plume footprint and proceeded with step-out borings to provide lateral and vertical delineation in multiple directions. Delineation was considered to be achieved within a direction when a step-out boring without detected LNAPL was completed.

Because LIF investigations do not recover physical samples for laboratory analysis, three borings were completed during the first soil mobilization to provide data to support interpretation of the LIF study findings. The borings, numbered A1-02A, A2-07A, and A2-16A, were completed adjacent to LIF borings A1-02, A2-07, and A2-16, respectively.

Four to six soil samples were collected from each boring. Sample depths were selected to support an understanding of the relationship between LIF response and concentration. In addition, samples were collected from the base of each boring to demonstrate that impacted soil had been delineated vertically.

3.2.2.2 Light Nonaqueous Phase Liquid Transmissivity Studies

To support evaluation of remedial options for the LNAPL plumes, two separate LNAPL transmissivity studies were completed at the Site. The first transmissivity study, completed between April 27 and 30, 2021, included LNAPL removal and recovery monitoring at two wells within the Area 1 plume (MW-17 and MW-29, Figures 17 and 18) and one well located within the Area 2 plume (MW-35, Figures 19 and 20). Testing, completed in accordance with ASTM E2856-13, included removal of LNAPL from each test well and LNAPL recovery monitoring using pressure transducers and an interface probe. Transmissivity testing procedures are detailed within Appendix C. Results are summarized in Sections 4.3.3 and 4.4.3. Per the ASTM procedure, the data was evaluated using the Bouwer-Rice Method to estimate LNAPL transmissivity at each monitoring well.

During initial screening of the data, the sampling approach was found to be potentially not suitable for application of the Bouwer-Rice Method since the logarithm of the drawdown did not appear to have a strong linear correlation with time. According to the Bouwer-Rice Method, data that exhibit a linear relationship may be extracted for further use in the transmissivity calculation. Although the data did not exhibit a strong linear relationship, the data set was used for the transmissivity calculation.

The estimated standard error for the transmissivity was large, potentially due to using data that did not exhibit a linear correlation. Additionally, relatively few data points were collected at MW-29 (9 data points) and MW-35 (8 data points) since the LNAPL appeared to recover more rapidly than measurements could be collected using the interface probe.

Due to the relatively high standard error values, a second "observational" transmissivity study was completed at the Site between November 9 and 24, 2021. The second study was comprised of extended LNAPL bail-down tests performed at MW-29 (Area 1 plume) and MW-35 (Area 2 plume). The response at MW-19 was also measured due to its proximity (24 feet) to MW-29. No bail-down was performed at MW-19.

The tests included daily LNAPL removal from the test wells and measurement of pre- and post-removal interface measurements (at all three wells) using an interface probe. LNAPL was removed from both wells on nine occasions; removal was completed daily at mid-day on weekdays only. Test procedures are detailed within Appendix C. Observations are summarized in Sections 4.3.3 and 4.4.3.

3.2.2.3 Natural Source Zone Depletion Sampling

Within the subsurface, LNAPL acts as a potential long-term "source zone" of contamination to soil, groundwater, and soil gas. NSZD refers to the natural loss of chemicals from the source zone through three main processes:

- Dissolution of LNAPL into groundwater and biodegradation within the saturated zone.
- Volatilization of LNAPL and biodegradation within the vadose zone.
- Biodegradation of LNAPL within the source zone.

NSZD evaluations were completed for the first of these processes at both LNAPL plumes. To evaluate NSZD within the saturated zone, groundwater samples were collected from wells located upgradient and downgradient of the LNAPL plumes. The sampled wells are listed in Exhibit 3-1, below. Well locations for Area 1 are shown in Figures 17 and 18. Well locations for Area 2 are shown in Figures 19 and 20.

Exhibit 3-1: Monitoring Wells Sampled for NSZD Evaluation

LNAPL Plume	Upgradient Monitoring Well	Downgradient Monitoring Well
Area 1	MW-23 MW-58	MW-30 MW-55 MW-56
Area 2	MW-14 MW-15 MW-73	MW-36 MW-60 MW-61

Dissolution to groundwater can be confirmed by comparing dissolved-phase hydrocarbon concentrations detected within upgradient and downgradient wells. Increased concentrations detected within downgradient wells would indicate that dissolution is occurring. During four consecutive quarterly monitoring events, the upgradient and downgradient wells were analyzed for TPH-D and TPH-O to evaluate for dissolution and degradation products as discussed below.

Evaluation of biodegradation was completed by comparing indicator compounds detected within upgradient and downgradient wells. Biodegradation of petroleum is an oxidation process (releases electrons). Microbes couple electron-generating reactions to electron-accepting reactions. To the extent possible, electron acceptors that result in the highest energy gain for the microbes will be used first, followed by lesser energy reactions. The sequence of reactions shown in Exhibit 3-2 is generally observed starting with oxygen reduction and proceeding to methanogenesis (anerobic degradation).

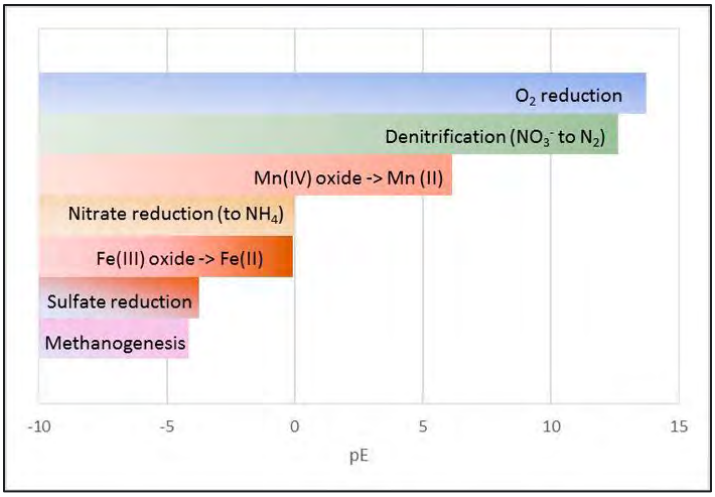


Exhibit 3-2: Electron Acceptor Ladder

Source: Interstate Technology Regulatory Council, LNAPL Update, Appendix B – Natural Source Zone Depletion, Figure NSZD-2. Electron acceptor ladder: Web Document, available: https://lnapl-3.itrcweb.org/appendix-b-natural-source-zone-depletion-nszd-appendix/, accessed April 28, 2022.

Decreased concentrations of dissolved-phase electron acceptors such as oxygen, nitrate, sulfate, and increased concentrations of nitrite, ferrous iron, manganese, and sulfite within downgradient wells as compared to upgradient wells indicate that biodegradation is occurring. If dissolved methane is present at higher concentrations within downgradient wells, anaerobic biodegradation by methanogenesis may be occurring. Results from quarterly sampling of upgradient and downgradient wells are discussed in Sections 4.3.4 and 4.4.4.

3.2.3 Soil Investigation

The soil investigation at the Site was completed in three mobilizations, including two primary drilling mobilizations and one follow-up mobilization. Shannon & Wilson observed the drilling activities, logged each boring, and collected soil samples for laboratory analysis. Holt Services, under subcontract to Shannon & Wilson, provided drilling services. Concrete coring, where necessary, was completed by Evergreen Concrete Cutting, under subcontract to Holt Services. In accordance with the Inadvertent Discovery Plan (dated March 20, 2020, and revised October 7, 2020), an archaeological monitor from Stell was on site during each soil sampling mobilization.

Explorations completed during the RI, labeled "Soil Boring (2020-2021)", "Monitoring Well (2020-2021)", "Hand Auger Sample (2020-2021)", and "Pavement Chip Sample (2020-2021)" are shown in Figures 16A, 16B, 16C, and 16D.

Proposed boring exploration depths were selected based on the location and intended purpose of each boring. Within the RI Work Plan, the bulk of the borings were proposed to

be completed to depths of either up to 15 feet bgs (referred to herein as shallow borings) or to greater depths of 25 to 30 feet bgs (referred to herein as deep borings). Within select Site areas, alternative depths and/or sampling strategies were proposed.

The investigation was sequenced to allow for the first drilling mobilization to inform the second drilling mobilization. To this end, the deeper direct-push borings were completed during the first mobilization to allow for the shallow boring depths to be adjusted based on the initial findings to target vertical delineation. The first drilling mobilization also included several explorations that were considered time-sensitive (i.e., due to Star Forge Clean Closure activities) or where potential follow-up exploration was considered likely.

The first drilling mobilization commenced on November 2, 2020, with concrete coring. Subsequent concrete coring was completed concurrent with investigation activities, as needed. Between November 3 and 6, 2020, 15 borings were completed using direct-push drilling methods. During the mobilization, Shannon & Wilson also completed sampling from unpaved locations within the Melt, Forge, and Heat Treat shops and from explorations completed within the TSA (Figure 16B).

On January 12, 2021, Shannon & Wilson met with Ecology to discuss the preliminary results from the first phase of drilling and LIF explorations and proposed modifications to the second phase of drilling. Proposed modifications, including relocating selected investigation locations and adjustments to the depth of the proposed explorations, were approved by Ecology in the meeting.

Initial concrete coring activities for the second drilling mobilization were completed on January 14 and 15, 2021. Subsequent coring was completed concurrent with investigation activities, as needed. Between January 25 and February 5, 2021, 36 borings were completed, and 27 monitoring wells were installed using either direct-push, hollow-stem auger (HSA), hand-auger, or air knife/vacuum truck methods.

After receipt of survey findings and laboratory analytical data, it was determined that additional borings were needed along the northern property boundary adjacent to Boeing's OA-11. A follow-up drilling mobilization was completed on October 4, 2021.

Soil sampling completed during the RI field activities are briefly summarized in the following subsections. Sampling methodology is detailed in Appendix C. Boring logs are provided within Appendix C.

3.2.3.1 Shallow Borings

Shallow borings SB-2021-003, SB-2021-009 through SB-2021-012, SB-2021-017, SB-2021-027, SB-2021-038 through SB-2021-040, and SB-2021-046 were completed using direct-push drilling methods to depths of 15 feet bgs (Figure 16A). At most locations, four samples were collected with the deepest sample held for potential analysis.

SB-2021-006, located within the southern end of the main building was planned to be a 15 feet bgs boring but was extended to 20 feet bgs due to a petroleum odor noted within the boring between depths of approximately 10 and 15.6 feet bgs. Due to the noted petroleum odor at SB-2021-006, an additional boring (SB-2021-047) was completed outside and south of the building to a depth of 15 feet bgs. No odor was noted within the step-out boring.

3.2.3.2 Deep Borings

Deep borings SB-2020-004, SB-2020-005, SB-2020-007, SB-2020-008, SB-2020-013 through SB-2020-016, and SB-2021-041[1] were completed to depths ranging from 25 to 30 feet bgs (Figure 16A). Six soil samples were taken from SB-2020-004 and submitted for analysis. At the remaining borings, five soil samples were collected; the shallowest three samples from each exploration were submitted for analysis and the deeper two samples were held for potential analysis.

3.2.3.3 24-Inch Property Line Pipe Borings

Borings SB-2021-042, SB-2021-043, and SB-2021-044 were completed adjacent to the 24-inch property line pipe using an air knife and vacuum truck to reduce the likelihood of damaging the pipe (Figure 16A).

3.2.3.4 Machine Shop Area Borings

Borings SB-2020-001, SB-2021-002, SB-2020-028, SB-2020-029, and SB-2020-045 were completed at the east end of the Machine Shop area of the main building to a depth of 10 feet bgs (Figure 16A). Two soil samples were taken from each boring and submitted for analysis.

3.2.3.5 Area 3 Gasoline Underground Storage Tank Sampling

SB-2021-033, SB-2021-034, and SB-2021-035 were completed from below the former Area 3 gasoline USTs using direct-push drilling methods (Figure 16A). The borings were completed to depths ranging from 15 to 25 feet bgs.

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[1] Within the final RI Work Plan, boring SB-2021-041 was intended to be completed to 15 feet bgs; however, the boring depth was increased to 25 feet bgs to obtain data from greater depths.

3.2.3.6 Decommissioned Oil and Diesel Area Vault Sampling (Optional)

Within the RI Work Plan, optional borings SB-2020-030, SB-2020-031, SB-2020-032, SB-2020-036, and SB-2020-037 were proposed for potential completion to investigate the Decommissioned Oil Storage Area vault and Decommissioned Diesel Storage Area vault and fill ports (Figure 16A). Upon discussion with Ecology, it was decided that these optional borings would not be completed.

3.2.3.7 Unpaved Locations in the Melt, Forge, and Heat Treat Shops

On November 2, 2020, Shannon & Wilson collected samples using hand tools from eight unpaved locations, numbered HA-2020-001 through HA-2020-008, within the main building (where soil does not overlie concrete) (Figure 16A). Sampling targeted collection of three samples from each location, including one from the loose surface soil, one from the upper soil (below the loose material), and one from approximately 6 inches below the upper soil samples. In some cases, loose surface soil was not encountered; at these locations, only two samples were collected. The upper soil samples from each location were submitted for metals analysis; samples from three of the locations were also submitted for PCBs analysis. The loose surface soil and deeper soil samples were held for potential analysis pending results.

3.2.3.8 Tote Storage Area

During the first drilling mobilization, Shannon & Wilson completed sampling from three locations within the TSA building (TSA-2020-001 through TSA-2020-003) (Figure 16B). At each exploration, coring was completed to expose the soil and sampling was completed using hand-auger methods.

During the second drilling mobilization, four borings (TSA-2021-004 through -007) were completed around the TSA building using direct-push drilling or hand-auger methods. Four samples were taken from each location from depths ranging from 6 inches below the subbase to 6 feet bgs. The shallowest sample from each boring were submitted for analysis and the three deeper samples were held for potential analysis pending results.

3.2.3.9 South of OA-11 Area Sampling

During the second primary soil sampling mobilization, borings SB-2021-018 through SB-2021-026 were completed to depths of 12 feet bgs to the south of Boeing's OA-11 area (Figure 16D). Six samples were collected from each boring. With one exception, the deeper two samples from each boring were held for potential analysis. At one location (SB-2021-018) petroleum odor and sheen were noted between approximately 6.3 and 7.8 feet bgs. Because slow laboratory turnaround times were anticipated, the deeper samples from this

boring were submitted for immediate TPH-D and TPH-O analysis to avoid hold times issues.

During the follow-up drilling mobilization, borings SB-2021-048 through SB-2021-057 were completed to depths ranging from 8 to 13.4 feet bgs. Four to six samples were taken from each boring.

3.2.4 Groundwater Investigation

3.2.4.1 Well Installations

Monitoring wells MW-53 through MW-76, MW-10R, MW-13R, and MW-22R were completed using HSA drilling methods. At four locations (MW-65, MW-72, MW-73, and MW-74), direct-push drilling was completed in advance of HSA drilling to provide continuous core samples (Figure 16A).

At MW-65, drilling was initiated using direct-push drilling methods until refusal occurred at 15 feet bgs. When the HSA rig began drilling at MW-65, the core barrel broke and was lost within the hole at 15 feet bgs. The lost tooling is believed to be associated with poorly tightened connections, not to issues encountered within the hole. The boring was renamed to SB-2021-065 and MW-65 was completed at an adjacent location using HSA drilling methods.

During drilling at MW-68, refusal was encountered at 6.3 feet bgs. The boring was renamed SB-2021-068 and MW-68 was completed at an adjacent location.

MW-73 was completed within the AHTB. As noted above, direct-push drilling was completed in advance of HSA drilling; however, due to height clearance issues, the HSA rig could not access the location. A pre-pack well was installed at this location within the boring generated using the direct-push rig.

Well development of newly installed groundwater monitoring wells began during the drilling mobilization and extended into the following weeks.

3.2.4.2 Aquifer Hydraulic Characteristics Testing

Aquifer testing completed during the RI included the hydraulic conductivity testing outlined with the RI Work Plan and completion of an additional water level study in response to sampling difficulties observed in select near shore wells (MW-39 and MW-68). The studies and findings were discussed previously in Sections 2.2.7 and 2.2.6.2.

3.2.4.3 Groundwater Monitoring and Sampling

Four quarterly groundwater monitoring and sampling events were completed in 2021 to evaluate for seasonal variation. Sampling procedures are detailed within Appendix C. Table 4 includes a summary of the analyses performed at each location.

Sample collection activities for the first event were completed between February 10 and 25, 2021. Because well development activities were ongoing at the start of the sampling event, the sitewide groundwater level monitoring associated with the first quarter sampling could not be completed prior to the sampling. The groundwater levels were monitored on March 8, 2021, which allowed time for the water levels to equilibrate after completion of the sampling event. During the subsequent events, groundwater levels were monitored prior to sampling. Water level monitoring readings for the second, third, and fourth quarters were taken on May 4, August 16, and November 8, 2021, respectively. Samples for the second, third, and fourth quarter events were collected between May 13 and 28, between August 17 and September 2, and between November 9 and December 3, 2021, respectively.

The RI Work Plan indicated that the groundwater analytical suite would be re-evaluated after receipt of results from the second quarter groundwater sampling event. However, laboratory delays associated with the COVID-19 pandemic made it impracticable to re-evaluate the analytical suite because the next sampling event occurred before the laboratory data were received and assessed. The analytical suite remained unchanged during the third and fourth quarter events.

During the first quarter event, select wells (MW-8, MW-43, MW-60, MW-63, MW-64, MW-68, MW-71, and MW-72) were sampled for PFAS to evaluate for the presence of PFAS within groundwater at the Site. Based on the analytical results from the event, the same monitoring wells and an additional two monitoring wells (MW-36 and MW-74) were sampled for PFAS during the fourth quarter event.

3.2.5 Pavement Sampling

During Clean Closure activities, DH Environmental, Inc., (on behalf of Star Forge) completed sampling activities at the Site. Pavement samples taken from the floor of the TSA contained PCBs at concentrations ranging from 15.1 to 40 milligrams per kilogram (mg/kg). Based on these findings, Ecology requested that EMJ should incorporate limited pavement sampling into the RI scope.

During the RI, ten pavement samples were collected. These included:

- TSA-Concrete-001 and TSA-Concrete-002: concrete samples taken from below the asphalt floor from the same locations as RI samples TSA-2020-002 and TSA-2020-001, respectively (Figure 16B).
- Asphalt-001 and Asphalt -002: asphalt samples taken from outside of the TSA to the east (from same location as TSA-2021-004) and west (from same location as TSA-2021-006), respectively (Figure 16B).
- Asphalt-003, Asphalt-004, and Asphalt-005: samples taken from unstained asphalt locations across the Site (from same locations as SB-2021-012, SB-2021-046, and MW-10R, respectively) (Figure 16A).
- Stain-001, Stain-002, and Stain-003: asphalt samples taken from stained areas across the Site (taken from within the Former Metals Shop Area, from south of the AHTB, and from outside of the main building to the east of the Shipping Area) (Figure 16A).

Pavement samples were analyzed for PCBs.

3.3 Archaeological Monitoring

During soil sampling activities, an archaeologist from Stell was on-site to monitor for cultural resources. No significant cultural resources were identified during the investigation. Appendix D includes a copy of the cultural resources report prepared by Stell.

3.4 Survey Activities

On April 20, 2021, True North Land Surveying, Inc. surveyed the newly installed groundwater monitoring wells and select borings, including the borings completed adjacent to Boeing's OA-11 and boring SB-2021-006 within the main building (SB-2021-006 was located in an area that made measuring its location with respect to Site features difficult). On January 11, 2022, the additional borings completed adjacent to Boeing's OA-11 were surveyed.

3.5 Deviations from Work Plan and Supplemental Memorandums

Minor deviations from the Work Plan and supplemental memorandums occurred during the RI. Deviations are discussed in Appendix C.

3.6 Additional PFAS Investigations

As mentioned in Section 1, additional PFAS investigation activities were completed following completion of the other RI work. The PFAS investigation was completed in a phased manner, divided into four tasks completed between September 2022 and February

2023. The activities included groundwater sampling from 15 existing groundwater monitoring wells that were not sampled for PFAS during the RI; installation of three new wells, and collection of soil and groundwater samples from these locations; collection of soil samples from unsaturated soil near potential source areas from three borings; and groundwater sampling from 28 wells, including 25 existing wells and the three new wells.

Key findings from the PFAS investigation have been included within this report, with details provided within the PFAS Investigation Report (Appendix H).

3.7 Star Forge Clean Closure Activities and Interim Actions

Details regarding the Star Forge Clean Closure Activities and Interim Actions are provided within the following reports prepared by DH Environmental, Inc., on behalf of Star Forge:

- Final Dangerous Waste Clean Closure report (DH Environmental, Inc., 2024a)
- Agency Review Draft Interim Action Completion Report (DH Environmental, Inc., 2024b)
- UST Decommissioning and Site Assessment Report (DH Environmental, Inc., 2024c)

Text, tables, figures, and selected appendices from the three Star Forge reports are included within Appendix I. Relevant findings are incorporated into this report.

3.7.1 Underground Storage Tank Decommissioning

Between August and October 2023, Star Forge decommissioned and removed 18 USTs from the Site. The USTs were situated within two UST banks (Figure 2A), referred to as the Decommissioned Diesel Storage Area (south bank of eight) and the Decommissioned Oil Storage Area (north bank of ten).

The two UST banks were comprised of concrete vaults (former building basements) that extended below and above grade. The USTs were situated within the vaults and were surrounded by fill that included a mixture of sand and slag. As discussed in Sections A.3.2 and A.3.4 of Appendix A, the Decommissioned Diesel Storage Area (south bank of eight) included eight 12,000-gallon tanks, and the Decommissioned Oil Storage Area (north bank of ten) included ten 15,000-gallon tanks. The vault for the Decommissioned Oil Storage Area was found to extend approximately 5 feet bgs and included a concrete base; the Decommissioned Diesel Storage Area vault extended slightly deeper and did not include a paved base.

Star Forge's activities included UST cleaning, removal of the USTs and piping from the concrete vaults in which they were situated, removal and off-site disposal of the concrete vault structures and fill material (sand and slag) that formerly encompassed the USTs,

removal of subsurface piping that extended from the UST banks, and collection of confirmation samples including excavation sidewall samples, excavation base samples, and samples from below pipe runs. Text, tables, figures, and selected appendices from the UST decommissioning and site assessment report (DH Environmental, Inc., 2024b) are provided in Appendix I.

Key observations and findings associated with the Decommissioned Diesel Storage Area tanks (south bank of eight) are discussed in Section 4.4. Findings and observations associated with the Decommissioned Oil Storage Area tanks (north bank of ten) are discussed in Section 4.6.

3.7.2 Transformer Spill Cleanup

As reported in the interim action completion report (DH Environmental, Inc. 2024b) (Appendix I), two transformers were located within a second-floor transformer room immediately south of the Former Melt Shop. Within the interim action completion report, this portion of the building is referred to as the Powerhouse structure. A release from the transformers reportedly dripped from the second floor to the first floor slab below. The transformers were removed during demolition. Soil samples taken from below the first floor slab (after the building was demolished) did not contain detectable PCBs.

3.7.3 Powerhouse Vault

During facility demolition and closure activities in 2023, Star Forge discovered a vault (referred to as the Powerhouse Vault) within the Former Metals Storage Area. PCBs were identified within soil in the vault. Star Forge completed removal of soil and water from the vault, confirmation sampling, and filled the vault. Confirmation PCB sample concentrations were below 1 mg/kg. Activities related to the Powerhouse Vault are detailed within the interim action completion report (DH Environmental, Inc., 2024b) (Appendix I). Findings are incorporated into Section 4.14 (Former Metals Storage Area).

3.7.4 Dangerous Waste Management Unit Closures

Star Forge completed Clean Closure of three DWMUs in 2023, including the TSA, the Central Accumulation Area (CAA), and the Bag House. Clean Closure activities are detailed within the final dangerous waste clean closure report (DH Environmental, Inc., 2024a) (Appendix I). Findings from the Clean Closure confirmation sampling for the TSA, CAA, and Bag House are incorporated into Sections 4.16 (Former Tote Storage Area), 4.17 (Northwest Corner), and 4.18 (Shoreline and Embayment), respectively.

3.7.5 Vault Filling and Covering

During the facility demolition process, Star Forge filled vaults and pits at the Site with crushed rock or Control Density Fill (CDF) and crushed rock. Four subsurface features were not filled during the demolition process, including the 660-ton press vault, the 1,250-ton press vault, the 2,500-ton press vault, and the Q1/Q2/Q3 vault. Instead, engineered pit covers were installed over these features to allow for future access. According to the Star Forge interim action completion report, the pit covers are set on curbs designed to prevent stormwater from entering the pits, the covers include waterproof membranes to prevent direct rain from entering the pits, and the covers are designed to support operational loading (DH Environmental, Inc., 2024b) (Appendix I).

3.7.6 Additional Tank Removals

During the facility demolition process, Star Forge removed aboveground storage tanks (ASTs) and hydraulic oil equipment reservoirs from the Site. They also removed the office building heating oil UST (located west of the former office building) and an additional heating oil UST that was identified during the demolition effort at the northern end of the former Melt Shop. AST and heating oil UST removal details are provided within the interim action completion report (DH Environmental, Inc., 2024b) provided in Appendix I. Findings from the heating oil UST removals are incorporated in Sections 4.9 and 4.13.

4 SAMPLING/ANALYTICAL RESULTS

The field investigations outlined within the previous section are discussed by matrix (LNAPL, soil, water, and pavement). Findings from the investigations are outlined in the following sections. To aid in interpreting the findings, the discussion is organized by areas of interest, rather than by matrix (except pavement). The discussion for each area of interest includes an overview of the area followed by a summary of the investigation findings. Though the discussion focuses on the results of this RI, where appropriate, historical data and data from the Star Forge 2024 reports are incorporated into the overview and/or findings discussion. Results from historical investigations are discussed within Appendix B. Soil and groundwater samples were collected from numerous explorations completed across the Site. Exploration locations are shown in Figures 16A, 16B, 16C, and 16D. The chemical analytical schedule was selected based on the results of past investigations, site activities in the area of an exploration, and to provide spatial distribution of data. Soil sample analysis was completed for one or more of the following:

- TPH-G, TPH-D, and TPH-O
- Extractable and volatile petroleum hydrocarbons

- BTEX
- PCBs as aroclors
- PAHs
- SVOCs (full list)
- HVOCs, including 1,1-dichloroethene (1,1-DCE), cis-1,2-DCE, trans-1,2-DCE, tetrachloroethene (PCE), TCE, and vinyl chloride
- Metals, including arsenic, barium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, vanadium, and zinc
- Hexavalent chromium
- Total organic carbon and total solids
- Physical parameters, including grain-size analysis and porosity

Soil analytical results are summarized in Tables 11 through 22.

Groundwater sample analysis was completed for one or more of the following:

- TPH-G, TPH-D, and TPH-O
- BTEX and methyl tert-butyl ether (MTBE)
- PCBs as aroclors
- PAHs
- Limited SVOCs (those identified as chemicals of potential concern [COPCs] within the RI work plan), including BEHP, dibutyl phthalate, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 2,4-dimethyphenol, benzoic acid, butyl benzyl phthalate, n-nitrosodiphenylamine, and pentachlorophenol
- SVOCs (full list)
- HVOCs, including 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and vinyl chloride
- Total and dissolved metals, including arsenic, barium, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, vanadium, and zinc
- Cr(VI) (dissolved only)
- PFAS (EPA's third Unregulated Contaminant Monitoring Rule [UCMR 3] list of six perfluorinated compounds – perfluorooctanesulfonic acid [PFOS], perfluorooctanoic acid [PFOA], perfluorobutanesulfonic acid [PFBS], perfluorohexanesulfonic acid [PFHxS], perfluoroheptanoic acid [PFHpA], and perfluorononanoic acid [PFNA]).
- Dissolved oxygen (field reading), nitrate, nitrite, sulfate, sulfite, ferrous iron, manganese, and methane (for NSZD and natural attenuation evaluation)

Groundwater analytical results are summarized in Tables 23 through 33. Field measured parameters taken during groundwater sampling activities are summarized in Table 34.

4.1 Data Validation

A Stage 2a Validation was performed to assess the data quality and usability for samples collected during the RI. The validation is documented within a Data Quality Summary Report (provided in Appendix E), which includes the laboratory analytical reports provided by the lab. Based on the methods outlined in the site-specific QAPP, the samples collected during the RI are considered to be representative of Site conditions at the locations and times they were obtained. Results affected by Quality Control anomalies are qualified with the appropriate data flags and are considered usable with the applied qualifiers. The quality of the analytical data does not appear to have been compromised by analytical irregularities.

4.2 Screening Levels

Ecology has developed a Preliminary Cleanup Level (PCUL) workbook and Supplemental Information paper for the LDW. Together, they are referred to as the PCUL document. The PCUL document is intended to be used for initial screening of environmental data for sites that may have transport pathways to the LDW with the objective of identifying chemicals and transport pathways of potential concern. The PCUL document is a living document. It was first issued in March 2017 and has been revised on multiple occasions, most recently in July 2024. Though RI activities and laboratory detection limits were designed to accommodate the PCULs that were in effect at the time that the work plan was issued, the findings from the RI have been screened against the July 2024 PCULs.

As discussed in Section 6.4, the Site qualifies for a Simplified Terrestrial Ecological Evaluation (TEE) assessment using values protective of wildlife exposure for industrial/commercial properties. For this reason, the Site-Specific TEE soil screening level column from the PCUL document has been replaced with the Simplified TEE values from Washington Administrative Code (WAC) 193-340-900 MTCA Table 749-2. Where available, values for industrial or commercial land use have been selected. Where these values are not established and a value has been listed for unrestricted land use, that value has been used.

It should be noted that the screening levels represent a very conservative standard of protection. For many compounds, laboratory reporting limits (RLs) are above the PCULs and current laboratory methods are unable to achieve a level of detection low enough to meet the screening level. While preparing the RI Work Plan, three environmental laboratories provided a list of their achievable RLs for the compounds to be analyzed during the investigation. These values were presented within Attachment 1 of the QAPP

(Appendix F of the RI Work Plan). Based on their RLs, ARI was selected to provide analytical services during the RI. For compounds with RLs that exceed the PCULs, non-detection results have been screened against the ARI RLs that are presented in the RI Work Plan QAPP.

Shannon & Wilson has evaluated the current and future highest beneficial use of the groundwater at the Site. The Site meets MTCA requirements for designation as non-potable because it is located immediately adjacent and in hydraulic connection with the non-potable saline LDW. Ecology concurred that the Site meets the requirements for non-potable groundwater (Ecology, 2018). For this reason, soil and groundwater data collected at the Site have been screened against the most stringent screening levels for non-potable groundwater. Specifically:

- Soil data collected at the Site have been screened against levels identified within the PCUL document as the most stringent soil screening levels for saturated zone soil and non-potable groundwater.
- Groundwater data have been screened against the levels identified as the most stringent screening levels for non-potable water. With exception of iron and manganese, if no screening level for non-potable water has been established, the most stringent screening level for potable water is used. Because iron and manganese are known to be prevalent in groundwater in the area (Ecology, 2014a), the background concentrations were used.

The term "screening level(s)" is used to refer to the PCULs throughout the remainder of this document and within supporting tables, figures, and appendices.

The following subsections provide a summary of the investigation findings for the various areas of interest at the Site. The analytical results are compared to the most stringent screening levels, as mentioned above. It should be noted that screening level exceedances called out in the following discussion do not necessarily indicate that a compound is present at levels of concern. In fact, many of the compounds noted to be present at concentrations above the screening level have been eliminated from the COPC list for the Site based on the factors discussed in Section 6. The screening levels used for soil and groundwater data collected during the investigation are summarized in Tables 9 and 10, respectively.

4.3 Area 1 Cutting Oil Contamination

Cutting oil (as established in previous sampling events) is present within soil, groundwater, and as an LNAPL plume on groundwater within an area located at the northern end of the former main building (the Hollowbore Area). This area has been historically referred to as Area 1 (Figure 2A). No single feature has been identified as the source of contamination; however, several features which may have contributed to the contamination were

historically located within the area. These features included vaults and tanks both inside the main building and outside to the north and northwest of the main building associated with operation of the Hollowbore Area lathes. Subsurface piping was used within the area to convey cutting oil to and from the Hollowbore Area lathes from the vaults and tanks. This subsurface piping is believed to be a likely significant source to the cutting oil plume. As part of their Interim Action and demolition at the Site, Star Forge removed the tanks from the Site and filled the vaults (Appendix I). Subsurface piping for the USTs was removed or capped (heating oil USTs). Reportedly, piping for AST or USTs that connected via the subsurface to vaults was capped but not removed.

Area 1 cutting oil investigations completed during the RI included LIF LNAPL plume delineation, soil, and groundwater sampling, LNAPL transmissivity testing, and NSZD evaluation sampling. Investigation locations within Area 1 are shown in Figures 16A and 17. Historical sample locations are presented in Figure B-2 of Appendix B.

4.3.1 Area 1 Light Nonaqueous Phase Liquid Laser-Induced Fluorescence Delineation

LIF boring locations are shown in Figures 16A and 17. Appendix F includes a report provided by Columbia Technologies that includes a summary of the investigation findings, Columbia's interpretations, and copies of LIF response readings at each exploration.

Within Area 1, 22 LIF borings were completed (A1-01 through A1-22). To begin the study, borings A1-01 and A1-02 were placed within the anticipated central portion of the plume footprint. The study continued with step-out borings A1-03 through A1-22 to provide lateral and vertical delineation in multiple directions.

The thickest zone of elevated LIF response within Area 1 was observed at A1-02, located adjacent to the Hollowbore lathe vaults and historic boring FB-2 (Figure B-2 of Appendix B). Samples collected in 2007 from FB-2 contained TPH-O at a concentration of 150,000 mg/kg within a sample taken from 3 to 5 feet bgs. LIF readings taken from A1-02 indicated likely LNAPL between depths of 2.5 and 20.5 feet bgs. Similar, but less pronounced readings were measured at borings A1-09 and A1-10, located approximately 40 feet to the east-southeast and 50 feet southeast of A1-02, respectively.

Sampling was completed at boring A1-02A, completed adjacent to LIF exploration A1-02. Petroleum odor was noted throughout the length of the boring and LNAPL sheen was observed within the boring at 10.8 feet bgs and again between depths of 18 and 23.6 feet bgs. Sample depths were selected to target high LIF readings and to provide vertical delineation. Samples taken from depth of 5, 10, 12.8, 18, and 25 feet bgs were analyzed for TPH-D and TPH-O. As shown in Table 11, TPH-D and TPH-O were detected within all five samples

with TPH-O being predominant. The sample taken from 12.8 feet bgs contained the highest TPH-D and TPH-O concentrations of 44,800 mg/kg and 155,000 mg/kg, respectively. Though the sample taken from 25 feet bgs contained detectable levels of TPH-D (99.2 mg/kg) and TPH-O (436 mg/kg), the concentrations were well below screening levels (2,000 mg/kg for TPH-D, TPH-O, and for the sum of TPH-D and TPH-O).

Throughout Area 1, LNAPL was noted between depths of 2.5 and 20.5 feet bgs within several discontinuous zones. At most locations, the LNAPL was confined to depths ranging from 8 to 17 feet bgs. Based on their review of the LIF signatures, Columbia indicated that the chemical composition of the LNAPL below 5 feet bgs was similar throughout the area. When a signature was detected at shallower depths, a different signature was noted.

The LNAPL plume was delineated using LIF borings; borings without LNAPL readings were successfully completed as follows:

- Two borings to the north of the plume located outside and to the west (A1-08) and northeast (A1-15) of the office building.
- One boring to the east of the plume located within the Former Shipping Area of the main building (A1-17).
- Two borings to the south of the plume located within the main building (A1-22 and A1-19) (located east-west of each other).
- One boring to the northwest of the western plume edge outside of the main building (A1-04).
- Two borings to the southwest of the western plume edge outside of the main building (A1-05 and A1-20) (located north-south of each other).

The estimated extents of LNAPL on water, LNAPL in soil, and dissolved TPH in groundwater in Area 1 are summarized in Figure 17. When compared to the estimated extent of LNAPL on groundwater (as noted within monitoring wells), LNAPL-saturated soil was found to extend farther to the north, east of the office building; to the east within the Former Shipping Area; and slightly farther to the south within the building. The western extent of LNAPL within Area 1 was found to be consistent with the extent of observed LNAPL on groundwater.

At one LIF location (A1-22), a shallow response was noted at approximately 3 feet bgs. Based on the depth of the response, and the lack of deeper LIF readings at the exploration, the response is believed to be associated with an unrelated surface release.

As discussed within the Columbia report, the TPH-D and TPH-O concentrations measured within the samples taken from 12.8 feet bgs (TPH-D at 44,800 mg/kg and TPH-O at 155,000 mg/kg) and from 18 feet bgs (TPH-D at 20,400 mg/kg and TPH-O at 77,600 mg/kg)

from A1-02A exceed residual saturation screening levels,[2] indicating that a portion of the LNAPL is potentially hydraulically recoverable.

The Columbia report provided in Appendix F includes several figures demonstrating the LNAPL extents measured during the LIF study. Based on their readings, Columbia estimates that there are approximately 390,000 kilograms of petroleum hydrocarbons within Area 1.

4.3.2 Area 1 Soil and Groundwater Sampling

Following the LIF investigation, plume perimeter monitoring wells (MW-55 through MW-59) were installed at locations outside of and surrounding the Area 1 LNAPL extents in soil (Figures 16A and 17). Soil samples were taken from each exploration. In addition, soil samples were taken from boring SB-2021-046, located outside to the north of the LNAPL plume (discussed in Section 4.9) near the office building heating oil UST.

Several previously installed wells are located within the vicinity of the Area 1 LNAPL plume. The wells include those in which LNAPL has been observed (MW-16 through MW-21, MW-22 (replaced during the RI with MW-22R), and MW-26 through MW-29) and wells placed outside of the LNAPL extents. Monitoring wells located outside and closest to the plume include MW-23, MW-24, MW-25, MW-30, MW-48, MW-49. Wells MW-31, MW-45[3], MW-71, MW-75, and MW-76 are located outside of the plume, but at a greater distance than the plume-perimeter wells (MW-55 through MW-59). Groundwater samples were taken from existing wells (except those that contain LNAPL) and from newly installed monitoring wells.

TPH and BTEX: With one exception (5 feet bgs sample taken from MW-57), soil samples taken from the borings for MW-55 through MW-59 and from SB-2021-046 contained low or non-detectable levels of petroleum hydrocarbons (below screening levels) (Table 12), demonstrating that the extent of residual LNAPL in soil within this area has been successfully delineated.

The 5 feet bgs sample taken from the MW-57 boring contained higher concentrations of TPH-D (4,420 mg/kg, above the screening level of 2,000 mg/kg) and TPH-O (1,460 mg/kg, below the screening level of 2,000 mg/kg). The 6 feet bgs sample taken from the same boring contained very low TPH-D (8.2 mg/kg) and TPH-O (12.9 mg/kg) concentrations. The

[2] Applicable residual saturation concentrations for diesel include 7,742 mg/kg (medium to coarse sand), 13,333 mg/kg (fine to medium sand), and 22,857 mg/kg (silt to fine sand). Applicable residual saturation concentrations for oil include 17,419 mg/kg (medium to coarse sand), 30,000 mg/kg (fine to medium sand), and 51,429 mg/kg (silt to fine sand) (American Petroleum Institute [API], 2000).
[3] MW-45 is screened within the "B" zone from between 30 and 40 feet bgs.

elevated detection within the 5 feet bgs sample from MW-57 is likely related to an unrelated surface release.

A soil sample taken from 8.4 feet bgs (near water table) at MW-58 contained BTEX at concentrations above screening levels. Shallower samples at this location did not contain detectable BTEX, suggesting that this contamination is associated with groundwater impacts. Groundwater samples collected from MW-58 (Table 23) contained elevated concentrations of benzene (as high as 188 JH*[4] micrograms per liter [µg/L]) and ethylbenzene (as high as 70.2 µg/L). The groundwater samples taken from MW-58 were not analyzed for TPH-G. Soil and groundwater impacts observed at MW-58 are not believed to be associated with the LNAPL plume; this location is within the Shipping Area and is discussed further in Section 4.10. Groundwater samples taken from other locations around the Area 1 LNAPL plume did not contain BTEX at concentrations above screening levels.

Groundwater samples taken from monitoring wells MW-23, MW-24, MW-25, MW-49, and MW-59 during the RI (or during the 2017 and 2018 sampling events) did not contain detectable concentrations of TPH-D or TPH-O. Monitoring well MW-48 was not sampled for petroleum hydrocarbon analysis during the 2017, 2018, or RI events; however, samples taken from the well in 2009 did not contain detectable concentrations of petroleum hydrocarbons. Samples taken from monitoring wells MW-55 through MW-58 contained detectable but low (below screening level) concentrations of TPH-D or TPH-O, with TPH-D being the most frequently detected.

Samples taken from plume perimeter well MW-30, within the main building located near the western end of the southern extent of the plume, contained TPH-D (up to 3,010 µg/L) and TPH-O (up to 867 µg/L) at concentrations above the screening levels of 500 µg/L. Well MW-31, located further downgradient (southwest of MW-30), contained TPH-D at up to 1,510 µg/L (TPH-O was not detected). There is not another "A" zone well located nearby to the south or southwest of MW-31. The nearest well in that direction is MW-38 (at the southern property boundary). MW-38 contained a single TPH-D detection (107 µg/L), below the screening level. Based on the concentration reductions observed between MW-30 and MW-31, the extent of diesel-impacted groundwater likely does not extend significantly past MW-31.

MW-45 is located south of MW-31 and is screened within the "B" zone between depths of 30 and 40 feet bgs. TPH-D was detected within MW-45 at concentrations up to 581 µg/L, just above the PCUL of 500 µg/L (TPH-O was not detected). The TPH-D detections within groundwater at MW-45 may be attributable to downward migration of diesel-impacted

[4] JH* indicates an estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson.

groundwater from the Area 1 plume. Alternatively, because this well is screened at a greater depth, and because diesel is less dense that water, it is possible that the diesel detections within this well may be attributable to a different source (Section 4.11).

Samples taken from monitoring wells MW-71 and MW-76, located to the northwest and west of the Area 1 plume, did not contain detectable petroleum hydrocarbons.

PCBs: During the RI, soil samples taken from this area were not analyzed for PCBs. Groundwater samples taken from MW-23, MW-24, MW-31, MW-45, MW-71, and MW-75 were analyzed for PCBs. PCBs were not detected above laboratory detection limits (Table 24).

PAHs: Soil samples taken from the borings for MW-55 through MW-59 and from boring SB-2021-046 were analyzed for PAHs. Several carcinogenic PAHs (cPAHs) (Table 14) were detected within the samples at very low concentrations, with benzo(a)pyrene and total cPAH toxicity equivalent quotient (TEQ) values exceeding the screening levels. The highest cPAH TEQ concentration of 0.024 mg/kg was detected within the 1 foot bgs sample taken at MW-59). These screening level exceedances are common at the Site due to the very low screening level (0.000016 mg/kg for benzo(a)pyrene and total cPAH TEQ).

In addition to cPAHs, naphthalene (Table 15) was detected within several soil samples at concentrations above the screening level of 0.0021 mg/kg. Except within two samples, the naphthalene detections were at 0.05 mg/kg or lower. The exceptions included:

- The 8.4 feet bgs sample taken at MW-58 (located in the Shipping Area) contained naphthalene at 0.524 E mg/kg; this is the same sample that contained elevated benzene, toluene, and ethylbenzene.
- The 5 feet bgs sample taken at MW-57 contained naphthalene at 0.254 mg/kg; this is the same sample that contained elevated TPH-D and TPH-O believed to be attributed to an unrelates surface release. The sample also contained 2-methylnaphthalene at 2.18 mg/kg (above the screening level of 0.67 mg/kg), dibenzofuran at 0.0949Q[5] mg/kg (above the screening level of 0.029 mg/kg), and fluorene at 0.125 mg/kg (above the screening level of 0.029 mg/kg).

Groundwater samples taken from MW-24, MW-25, MW-31, MW-71, MW-75, and MW-76 were analyzed for PAHs (Tables 25 and 26). PAHs were not typically detected. The following sporadic PAH screening level exceedances were measured:

[5] Q indicates a laboratory quality control failure that may affect the data quality. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.

- One of four samples taken from MW-25 contained benzo(a)anthracene at 0.00100 J[6] µg/L, (above the screening level of 0.00016 µg/L) and a total cPAH TEQ of 0.0014 µg/L (above the screening level of 0.000016 µg/L).
- One of four samples taken from MW-31 contained benzo(b)fluoranthene at 0.000900 J µg/L (above the screening level 0.00016 µg/L) and a total cPAH TEQ of 0.0014 µg/L (above the screening level of 0.000016 µg/L). Another of the four samples taken from MW-31 contained acenaphthene at 5.50 D[7] µg/L, just above the screening level of 5.34 µg/L.

SVOCs: Groundwater samples taken from MW-24, MW-31, MW-75, and MW-76 were analyzed for limited SVOCs (Table 27). Two of four groundwater samples taken from MW-24 contained BEHP (up to 0.700 µg/L) above the screening level of 0.046 µg/L. None of the other analyzed SVOCs were detected within groundwater samples at concentrations above screening levels.

VOCs: Soil samples taken from MW-58 were analyzed for HVOCs (Table 17). The samples did not contain detectable concentrations of the analyzed HVOCs. Groundwater samples taken from MW-23, MW-24, MW-25, MW-30, MW-31, MW-45, MW-48, MW-49, MW-71, MW-75, and MW-76 were analyzed for HVOCs (Table 29). HVOCs were not typically detected within groundwater samples taken from these wells except for the following:

- Vinyl chloride was detected within one of four samples taken from MW-45 ("B" zone well) at 0.310 µg/L (above the screening level of 0.18 µg/L).
- TCE was detected within all four samples taken from MW-49, which is located near the northern property boundary. Detections ranged from 1.26 to 6.54 µg/L, above the screening level of 0.7 µg/L. This is consistent with previous investigations; TCE had previously been detected at concentrations ranging from 0.55 to 3.1 µg/L.

Metals: Soil samples taken from this area contained selenium and vanadium[8] at concentrations above screening levels (Table 18). Other metal exceedances included sporadic arsenic (up to 11.6 mg/kg), copper (up to 51.4 mg/kg), and mercury (up to 0.203 mg/kg) detections compared to screening levels of 7.3, 36.38, and 0.07 mg/kg, respectively. In most cases, the arsenic, copper, and mercury exceedances were collocated.

[6] J indicates an estimated concentration, detected greater than the detection limit and less than the reporting limit. Flag applied by the laboratory.
[7] D indicates the reported value is from a dilution. Flag applied by the laboratory.
[8] Selenium and vanadium (to a lesser extent) were frequently detected at concentrations above their screening levels within Site soils. Based on their distribution, these exceedances do not appear to be associated with a Site source and appear to be present within native soils and/or fill placed at the Site.

Total and dissolved arsenic were detected within several wells at concentrations above the screening level of 8 µg/L (Table 30). One sample (taken from MW-25 in February 2021) contained total and dissolved arsenic at concentrations of 131 and 91.6 µg/L, respectively. Other samples (taken from this well and others in the area) contained total and dissolved arsenic at concentrations up to 43.3 D and 9.22 D µg/L, respectively. The elevation arsenic detections may be attributed to the nearby LNAPL plume and TPH-degradation-related changes to the pH and Eh. Other metal screening level exceedances included one-time exceedances of total copper (4.74 µg/L, above the screening level of 3.1 µg/L), total iron (39,700 D µg/L, above the screening level of 32,000 µg/L), and total and dissolved nickel (9.33 and 8.37 µg/L, above the screening level of 8.2 µg/L), measured within groundwater samples taken from MW-75.

Summary: Soil and groundwater sampling within the vicinity of the Area 1 LNAPL plume confirmed that the LIF study had successfully delineated the LNAPL extents in soil. Limited dissolved-phase impacts extend from the plume to the southwest. An unrelated shallow release was identified at the location of MW-57 and isolated BTEX impacts were identified within the Shipping Area at MW-58 (Section 4.10). Limited PAH and metal exceedances were observed within soil and groundwater; these are likely attributable to the petroleum impacts.

TCE detections, consistent with past sampling events, were measured within groundwater at MW-49 (at the northern property boundary, Section 4.23). BEHP was measured in groundwater during some events at MW-24.

4.3.3 Area 1 Light Nonaqueous Phase Liquid Transmissivity

To support evaluation of remedial options for the Area 1 LNAPL plume, two separate LNAPL transmissivity studies were completed (as outlined in Section 3.2.2.2 and detailed in Appendix C). Although the data did not exhibit a strong linear relationship, the data set from the first study was evaluated using the Bouwer-Rice method (analysis summarized in Appendix F). The estimated LNAPL transmissivity values and standard errors are provided below (Exhibit 4-1).

Exhibit 4-1: Estimated Area 1 LNAPL Transmissivity Values

Well Name	LNAPL Plume	Construction Materials	Screened Interval (feet bgs)	LNAPL Transmissivity (ft^2/minute)	LNAPL Transmissivity (ft^2/day)	Standard Error of LNAPL Transmissivity (ft^2/minute)
MW-17	Area 1	6-inch PVC	8 to 23	1.8E-4	0.26	0.01
MW-29	Area 1	6-inch PVC	7 to 22	3.6E-3	5.2	2.2

ft^2 = square feet

Due to the relatively high standard error values, a second "observational" transmissivity study was completed at the Site. The second study was comprised of extended LNAPL bail-down tests performed at MW-29. The response at MW-19 was also measured due to its proximity (24 feet) to MW-29. No bail-down was performed at MW-19.

Based on the collected data, an average of 2.3 gallons of LNAPL were removed per event from MW-29. The average excludes the initial bail-down and the bail-down immediately after the weekends. It is estimated that equilibrium conditions (i.e., static elevation of the air/LNAPL and LNAPL/water interfaces) may be reestablished after approximately one to two weeks following removal of LNAPL from wells MW-29. The bail-down of MW-29 appeared to influence (lower the elevation of) the interfaces observed at MW-19. The influence at MW-19 appeared to be delayed by approximately three days. Additional details are provided in Appendix F.

For comparison, bail-down tests were performed periodically during 1994 to 1996 at Area 1 monitoring wells (MW-16 through 21 and 26 through 29) (SECOR, 1997). The tests were performed by first measuring the stabilized pre-bail-down LNAPL and groundwater levels. The wells were then bailed until the LNAPL was approximately removed. The recovery of the wells was tracked and plotted on a graph. Of note, a LNAPL recovery system was in operation at adjacent wells and may have influenced data. Data collected during the 1994 to 1996 bail-down tests resulted in near complete recovery to pre-bail-down levels after approximately 4 to 6 hours, which is faster than estimated during the 2021 bail-down tests. The faster recovery rate in 1994 to 1996 suggests that the LNAPL transmissivity in Area 1 was higher than in 2021. The difference in transmissivity may have been impacted by several factors, including dissolution to groundwater or vaporization to soil gas of more mobile fractions of the LNAPL, recovery of product since 1996, or reduction in soil porosity due to the biofouling of the pore spaces .

However, based on the results of the 2021 bail-down test, it appears that there is some potential for recovery of LNAPL from the Area 1 plume.

4.3.4 Area 1 Natural Source Zone Depletion Evaluation

The Area 1 LNAPL Plume was evaluated for dissolution of LNAPL in groundwater by comparing dissolved-phase TPH-D and TPH-O concentrations detected within upgradient (MW-23 and MW-58) and downgradient (MW-30, MW-55, and MW-56) wells. Increased concentrations detected within downgradient wells would indicate that dissolution is occurring.

TPH-D and TPH-O were either not detected or detected up to 276 µg/L in the upgradient (MW-23 and MW-58) and two of the three downgradient (MW-55 and MW-56) wells.

TPH-D and TPH-O were detected at higher concentrations (up to 3,010 µg/L) in the third downgradient well (MW-30), suggesting that dissolution of LNAPL to groundwater is occurring. Additionally, well MW-31, located downgradient from MW-30, contained TPH-D at concentrations of up to 1,510 µg/L. Results of TPH-D and TPH-O analyses are provided in Table 23.

Evaluation of biodegradation of dissolved-phase hydrocarbons was completed by comparing indicator compounds detected within upgradient and downgradient wells during four quarterly monitoring events. Analytical results are provided in Table 32 and field readings are summarized in Table 34.

Dissolved oxygen, nitrate, and sulfate may decrease in concentration in downgradient wells if biodegradation were occurring.

- Oxygen was not detected in upgradient or downgradient wells during most sampling event. Due to the lack of detections, an evaluation for biodegradation using oxygen was not practicable.
- Nitrate was not detected in monitoring wells during four quarters of monitoring except at two upgradient and two downgradient wells during August 2021. During August 2021, concentrations at downgradient wells were an order of magnitude less than at the upgradient wells. Nitrate was detected at MW-58 during February 2021 but was not detected in other wells. Based on the August 2021 nitrate data, the presence of biodegradation was indicated.
- Sulfate was detected in most groundwater samples during four quarters of sampling. The detected concentrations in downgradient wells were similar to concentrations in upgradient wells. Based on the sulfate data, the presence of biodegradation was not indicated.

Nitrite, manganese, ferrous iron, sulfite, and methane may increase in concentration in downgradient wells if biodegradation were occurring.

- Nitrite was detected in 1 of 16 samples. Due to the lack of detections, and evaluation for biodegradation using nitrite was not practicable.
- Concentrations of manganese in downgradient wells appeared to be approximately half of the concentration in upgradient wells, which is the opposite trend expected if biodegradation were occurring. The cause of the decreased concentration is unknown.
- Concentrations of ferrous iron, sulfite, and methane in downgradient wells were similar to concentrations in upgradient wells. Based on the available data, the presence of biodegradation was not indicated by these analytes.

A summary of indicators of LNAPL dissolution and biodegradation is provided in Exhibit 4-2, below.

Exhibit 4-2: NSZD Evaluation Summary for Area 1 LNAPL

	Is the Presence of Dissolution or Biodegradation Indicated by Trends in Concentrations of Analytes? Area 1 LNAPL Plume
Dissolution of LNAPL	
TPH-D	Yes
TPH-O	Yes
Biodegradation	
Oxygen	Not sufficient data.
Nitrate	Yes
Sulfate	No
Nitrite	Not sufficient data.
Manganese	No
Ferrous Iron	No
Sulfite	No
Methane	No

Based on groundwater monitoring, it appears that dissolution of LNAPL is occurring. Biodegradation of dissolved-phase hydrocarbons may be progressing to a limited extent (nitrate reduction).

4.3.5 Summary of Findings

The LIF study successfully delineated the extent of LNAPL in soil, both horizontally and vertically (Figure 17). Analytical results for soil samples taken from boring A1-02A, completed adjacent to the LIF boring with greatest LIF response (A1-02), serve to confirm the ability of the LIF technology to identify LNAPL within the subsurface. The samples contained TPH-D and TPH-O with TPH-O being predominant. The deepest sample from the boring contained only low concentrations (below screening levels) of TPH-D and TPH-O, indicating that vertical delineation has been achieved.

Soil samples taken from borings for plume perimeter wells confirmed that horizontal delineation has been achieved. Groundwater samples taken from plume-perimeter borings generally only contained low levels of TPH-D and TPH-O, with TPH-D being detected most frequently. Samples taken from MW-30 and MW-31 suggest that dissolved-phase petroleum hydrocarbon impacts extend from the area to the southwest. Based on the concentration reductions seen between MW-30 and MW-31, concentrations above screening levels are not likely to extend beyond MW-31 by a significant distance.

Petroleum impacts within Area 1 are summarized in Figure 17. The figure overlays the extent of LNAPL on groundwater (as observed in monitoring wells) with the extent of LNAPL detected by the LIF study, along with the dissolved-phase impacts. Historical LNAPL on groundwater extents (as observed in monitoring wells) are summarized in Figure 18.

The TPH-D and TPH-O concentrations measured within the samples taken from 12.8 feet and 18 feet bgs from A1-02A exceed residual saturation screening levels, indicating that a portion of the LNAPL is potentially hydraulically recoverable. The transmissivity studies also demonstrated potential for recovery.

NSZD evaluation findings for the Area 1 plume were not conclusive. The evaluation confirmed that dissolution of LNAPL to groundwater is occurring, but evidence of biodegradation was limited to reduced nitrate level in downgradient wells during some of the monitoring events. This finding suggests that biodegradation may be occurring.

4.4 Area 2 Hydraulic Oil and Diesel Contamination

Hydraulic oil and diesel are present within soils, groundwater, and as a commingled LNAPL plume on groundwater within an area at the southeastern end of the former main building and extending to below the former AHTB to the east. This area has been historically referred to as Area 2 (Figure 2A). The hydraulic oil was identified in 1990 during the Dames & Moore limited site characterization. The diesel contamination was later identified in 1995, when diesel LNAPL was first noted in well MW-12 (Figure B-3 of Appendix B). The hydraulic oil is believed to have been released to the subsurface when the oil-water separator (located outside near the northwestern corner of the former AHTB) was overfilled on several occasions. The source of diesel contamination is believed to be from product lines that ran from the USTs in the Decommissioned Diesel Storage Area (south bank of eight USTs), below the AHTB, to the main building and/or from overfilling of the USTs.

Area 2 hydraulic oil and diesel investigations completed during the RI included LIF LNAPL plume delineation, soil and groundwater sampling, LNAPL transmissivity testing, and NSZD evaluation sampling. Investigation locations within Area 2 are shown in Figures 16A and 19. Historical sample locations are presented in Figure B-3 of Appendix B.

Between August and October 2023, Star Forge decommissioned eight 12,000-gallon USTs from the Decommissioned Diesel Storage Area, completed removal and off-site disposal of the concrete vault structure that housed the USTs and fill (sand and slag) that formerly filled the space between USTs, removed subsurface piping, and collected confirmation samples.

Text, tables, figures, and selected appendices from the UST decommissioning and site assessment report (DH Environmental, Inc., 2024b) are provided in Appendix I.

4.4.1 Area 2 Liquid Nonaqueous Phase Liquid Laser-Induced Fluorescence Delineation

Within Area 2, 18 LIF borings were completed (A2-01 through A2-18). A2-01 and A2-02 were placed within the anticipated central portion of the plume footprint and step out borings were completed to provide lateral and vertical delineation in multiple directions (Figure 16A and Figure 19). Though LNAPL was observed within the A2-01 and A2-02 explorations, the observed responses were relatively small when compared to other Area 2 explorations. The highest LNAPL responses within Area 2 were measured at A2-16 and A2-07. LIF signatures observed at A2-16 and A2-07 were dissimilar.

Exploration A2-16 was completed outside of the main building near the former oil-water separator. At A2-16, LNAPL readings were observed between depths of 8 and 16 feet bgs, with the highest readings measured at between 12 and 13 feet bgs. Sampling was completed at boring A2-16A, completed adjacent to LIF exploration A2-16. Petroleum odor and black staining was noted within the boring between depths of 8 feet and 12.5 feet bgs. Sample depths were selected to target high LIF readings and to provide vertical delineation. Samples were taken from 9.5, 12.5, and 18 feet bgs and analyzed for TPH-G, TPH-D, and TPH-O (Table 12). TPH-D and TPH-O were detected within all three samples with TPH-O being predominant. The sample taken from 12.5 feet bgs contained the highest TPH-O concentration of 10,800 mg/kg. The samples taken from 9.5 and 12.5 feet bgs contained similar TPH-D concentrations of 3,400 and 3,230 mg/kg, respectively. Though the sample taken from 18 feet bgs contained detectable levels of TPH-D and TPH-O, the concentrations were below the screening levels. TPH-G was detected below screening levels within the shallower two samples only.

Boring A2-07 was completed within the main building southwest of boring A2-16, near the former 1,250-ton press feature. Elevated LIF readings were noted within the exploration between depths of 8 and 16 feet bgs, with the highest response measured at 13 feet bgs. Sampling was completed at boring A2-07A, adjacent to LIF exploration A2-07. An odor similar to gasoline was noted within the boring beginning at 8.6 feet bgs and extending to the bottom of the exploration (30 feet bgs). The odor declined significantly with depths below 18.5 feet bgs. LNAPL sheen was observed between depths of 12 and 17 feet bgs. Samples were taken from depths of 12, 13, 18, and 25 feet bgs and analyzed for TPH-G, TPH-D, and TPH-O. The shallowest sample (12 feet bgs) contained elevated concentrations of TPH-G, TPH-D, and TPH-O, with TPH-D being predominant. Concentrations reduced with depth; TPH-D and TPH-O were not detected within the 18 and 25 feet bgs samples.

TPH-G was detected within the 13.5 and 18 feet bgs samples, but at concentrations below screening levels.

Within Area 2, LNAPL was observed between depths of approximately 3 and 18 feet bgs with most LNAPL readings noted between 8 to 16 feet bgs. At one location, A2-08, an additional LNAPL response was noted at 18 feet bgs. The Area 2 LNAPL plume was delineated and the LIF borings without LNAPL detections were successfully completed as follows:

- Two borings to the north, one within the main building (A2-05) and one outside within the driveway between the AHTB and the main building (A2-18).
- One to the east, within the AHTB (A2-12).
- Two borings to the south, one within the main building (A2-13) and one within the driveway between the AHTB and the main building (A2-15).
- One to the west within the main building (A2-03).

The estimated extents of LNAPL on water, LNAPL in soil, and dissolved TPH in groundwater in Area 2 are summarized in Figure 19. When compared to the estimated extent of LNAPL on groundwater (as noted within monitoring wells), the Area 2 LNAPL in soil distribution shape was found to be oriented in a distinctly northeast to southwest direction. The plume was found to be less extensive within the main building to the northwest but extended farther to the north to the east of the main building (LNAPL observed in soil slightly north of the AHTB) and to the south within the main building (LNAPL detected in soil nearly as far south as, but to the west, of MW-32). LNAPL was observed within soil below the western end of the AHTB but not within soil below the eastern end of the building.

The following findings from the LIF study suggest that two or more release areas were present within Area 2:

- The observed LIF signatures at A2-16 and A2-07 were dissimilar.
- Analytical results taken from borings A2-16A and A2-07A were also dissimilar. TPH-O was measured most predominantly at A2-16A. TPH-D with TPH-G was most predominant at A2-07A.
- LIF responses observed at borings A2-02, A2-09, and A2-14, completed between A2-07 and A2-16, were significantly reduced, indicating horizontal separation between the sources.

As discussed within the Columbia report, the TPH-G, TPH-D, and TPH-O concentrations measured within the samples taken from A2-16A and A2-07A (TPH-G, TPH-D, and TPH-O concentrations of up to 876 mg/kg, 10,700 mg/kg, and 10,800 mg/kg, respectively) did not

exceed residual saturation screening levels[9]. However, TPH-D has been detected above residual saturation screening levels during previous investigations at the Site.

The Columbia report provided in Appendix F includes several figures demonstrating the LNAPL extents measured during the LIF study. Based on their readings, Columbia estimates that there are approximately 28,000 kilograms of petroleum hydrocarbons within Area 2.

Confirmation samples taken during the 2023 Star Forge UST Decommissioning effort (detailed in Section 4.4.5) identified an additional area of petroleum soil impacts associated with the former Decommissioned Diesel Storage Area USTs. The impacts include elevated TPH-D and, to a lesser extent, TPH-G within soil below the southern end of the excavation completed during UST removal activities and immediately west of the excavation. The contaminant distribution is consistent with releases during tank filling operations, as they were observed in areas adjacent to the fill ports. As shown in Figure 19, this area appears to be separate from the LIF-delineated impacts due to a decline in concentrations downgradient before values increase again.

4.4.2 Area 2 Soil and Groundwater Sampling

Following LIF delineation, monitoring wells MW-13R, MW-60, MW-61, MW-62, MW-63, MW-64, MW-72, MW-73, and MW-74 were installed within the area of the plume (Figure 16A and 19). MW-13R was completed within the footprint of the LNAPL plume; MW-60, MW-61, and MW-73 were completed just outside of the anticipated plume footprint to the west, northwest, and east, respectively; and MW-62, MW-63, MW-64[10], MW-72, and MW-74 were installed at locations further from the plume to the north, west, west, east, and southwest, respectively. MW-63 and MW-64 were installed as a pair, with MW-63 screened within the "A" zone and MW-64 screened within the "B" zone.

Previously installed wells located within the vicinity of the Area 2 LNAPL plume included MW-35 (in which LNAPL is observed), wells MW-14 and MW-34 (located just outside of the plume), and wells MW-15, MW-32, MW-36, MW-37, MW-40, MW-41[11] (located outside of

[9] Applicable residual saturation concentrations for gasoline include 3,387 mg/kg (medium to coarse sand), 5,833 mg/kg (fine to medium sand), and 10,000 mg/kg (silt to fine sand). Applicable residual saturation concentrations for diesel include 7,742 mg/kg (medium to coarse sand), 13,333 mg/kg (fine to medium sand), and 22,857 mg/kg (silt to fine sand). Applicable residual saturation concentrations for oil include 17,419 mg/kg (medium to coarse sand), 30,000 mg/kg (fine to medium sand), and 51,429 mg/kg (silt to fine sand) (API, 2000).
[10] MW-64 is screened within the "B" zone from between 46 and 60 feet bgs.
[11] MW-41 is screened within the "B" zone from between 30 and 40 feet bgs.

the plume, but at a greater distance). Monitoring well MW-41 is screened within the "B" zone.

TPH and BTEX: During the RI, monitoring wells MW-60 and MW-61 were completed just to the west and northwest of the LNAPL plume, respectively. Soil samples taken from the borings for the wells contained low concentrations (below screening levels) of TPH-D and TPH-O, with TPH-O measured more frequently (Table 12). The sampling results demonstrate that LNAPL in soil has been delineated. MW-73 was installed within the AHTB. MW-73 was intended to be located upgradient of the Area 2 plume, but downgradient of the diesel tanks located within the Decommissioned Diesel Storage Area (located to the east of the AHTB). Soil samples taken from the boring for MW-73 contained elevated concentrations of TPH-G (up to 2,550 JL*[12] mg/kg) and TPH-D (up to 6,510 D mg/kg). These concentrations are above the LNAPL saturation concentrations for TPH-G and TPH-D, suggesting that free product may be present at this location. Rather than being an upgradient well, MW-73 appears to be located within the LNAPL extents.

Soil samples taken from the boring for MW-62, MW-64, MW-72, and MW-74 contained only low (below screening level) detections of TPH-D and TPH-O. Samples from the boring for MW-63 (placed adjacent to MW-64) were not analyzed for petroleum hydrocarbons.

MW-13R was completed within the plume footprint; soil samples were not taken from the boring during installation. Up to 1.13 feet of LNAPL has been measured within MW-13R since it was installed. Prior to the occurrence of LNAPL in MW-13R, groundwater samples were collected during two events. Elevated levels of THP-D (up to 4,270 µg/L) and TPH-O (up to 2,120 µg/L) were detected within the samples (compared to screening levels of 500 µg/L) (Table 23).

TPH-D and TPH-O were detected within the samples taken MW-14, located to the north of the plume during the sampling events completed in February and November of 2021 but not during the May and August 2021 events. The total TPH-D and TPH-O concentration detected in February 2021 (871 µg/L) exceeded the 500 µg/L screening level. The TPH-D and TPH-O concentrations detected in November 2021 were individually above the 500 µg/L screening levels (TPH-D at 790 µg/L and TPH-O at 538 µg/L). Petroleum hydrocarbons were not detected within samples taken from MW-15, located to the northeast of the plume.

TPH-G, TPH-D, and TPH-O were detected within all four samples taken from MW-73. TPH-G detections ranged from 301 to 752 µg/L, all below the screening level of 1,000 µg/L.

[12] JL* indicates an estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson.

All four samples contained TPH-D at concentrations above the screening level (between 3,380 to 14,300 E µg/L). Three of the four TPH-O concentrations exceeded the screening level (between 306 and 2,630 µg/L). The detections within this well confirm that this well is not upgradient of the LNAPL plume.

Groundwater samples taken from MW-60 and MW-61 contained elevated concentrations of TPH-D and TPH-O with TPH-D detected more frequently and at higher concentrations. TPH-O was only detected within one sample taken from MW-60, but was detected in all four samples taken from MW-61. In contrast, TPH-G was detected within all four samples taken from MW-60, but within only one sample taken from MW-61. All TPH-G detections were below the screening level.

Groundwater samples taken from MW-32, located outside between the former main building and the former AHTB, to the south of the LNAPL extents, contained low concentrations of TPH-D (up to 384 JH* µg/L), at concentrations below the screening level, indicating that dissolved-phase impacts are bounded to the south. Samples taken from wells MW-36 and MW-74, located to the southwest of the plume, contained detectable concentrations of TPH-D and sometimes TPH-O and TPH-G. Some of the detections exceeded screening levels. Samples taken from both wells did not contain BTEX constituents at concentrations above screening levels. Monitoring well MW-37 is located to the south of MW-74, near the southern property boundary. Samples taken from MW-37 did not contain detectable petroleum hydrocarbons, indicating that the dissolved-phase impacts do not extend off-site to the southwest.

Monitoring wells MW-62 and MW-72, located to the northwest and east of the plume, did not contain detectable petroleum hydrocarbons. Monitoring wells MW-40 and MW-63 are located to the west of the plume (and west of dissolved-phase impacts measured within samples taken from MW-60). MW-40, which is closer to the plume, contained detectable concentrations of TPH-D (up to 550 µg/L) and TPH-O (single detection of 326 µg/L). Two samples taken from MW-40 contained total TPH-D and TPH-O concentrations above the screening level of 500 µg/L. MW-63, located further from the plume, did not contain detectable petroleum hydrocarbons, indicating that dissolved-phase impacts have been delineated.

Monitoring wells MW-41 and MW-64 are located adjacent to monitoring wells MW-40 and MW-63, respectively. The wells are screened at greater depths within the "B" zone; specifically, MW-41 is screened from between 30 and 40 feet bgs and MW-64 is screened from between 45 and 60 feet bgs. Samples taken from MW-41 and MW-64 contained detectable concentrations of TPH-D; with detections typically higher than measured in their shallower neighboring wells. Samples taken from MW-41 contained TPH-D at

concentrations up to 909 µg/L, with two of the detections above the screening level of 500 µg/L. Samples taken from MW-64 contained detectable concentrations of TPH-D with one detection above the screening level (977 µg/L detected in February 2021). The TPH-D detections within groundwater at MW-41 and MW-64 may be attributable to downward migration of diesel-impacted groundwater from the Area 2 plume. Alternatively, because these wells are screened at a greater depth, and because diesel is less dense that water, it is possible that the diesel detections within this well may be attributable to a different source (Section 4.11).

Soil samples taken from the borings for MW-60 and MW-73 were analyzed for BTEX. Benzene was detected at low concentrations (but above the screening level of 0.000558 mg/kg) within the 9 feet bgs sample (just at the water table) from MW-60 (0.00101 J mg/kg) and within the 7 feet bgs (0.000740 mg/kg) and 11 feet bgs (0.000600 J mg/kg) samples taken from MW-73. Groundwater samples taken from MW-13R, MW-14, MW-36, MW-37, MW-60, MW-61, MW-62, MW-63, MW-64, MW-72, MW-73, and MW-74 were analyzed for BTEX constituents. None of the samples contained BTEX at concentrations above screening levels.

PCBs: Soil samples taken from the borings for MW-60, MW-61, MW-73, and MW-74 were analyzed for PCBs (Table 13). Very low concentrations (above the screening level) of PCBs were detected within the 1.5 feet bgs sample taken from MW-61 (0.0947 mg/kg), the 3.2 feet bgs sample taken from MW-73 (0.00780 J mg/kg), and within the 10.3 feet bgs sample taken at MW-74 (0.00480 J mg/kg). At MW-61 and MW-73, deeper samples did not contain detectable PCBs. At MW-74, the PCB detection occurred within the deepest sample taken from near the water table.

Groundwater samples taken from wells MW-60, MW-62, MW-63, MW-64, and MW-72 were analyzed for PCBs (Table 24). PCBs were not detected within the samples.

PAHs: Soil samples taken from the borings for MW-60, MW-61, MW-62, MW-64, MW-72, MW-73, and MW-74 were analyzed for PAHs (Tables 14 and 15). Soil samples taken from MW-72 did not contain detectable PAHs. At all other locations, cPAHs were detected at low concentrations (above screening levels), with total cPAH TEQ values of up to 0.021 mg/kg (though typically at 0.003 mg/kg or lower). Naphthalene was detected within several of the borings at concentration above the screening level of 0.0021 mg/kg; detections were typically at or below approximately 0.01 mg/kg. Samples taken from the boring for MW-73 (completed within residual soil LNAPL extents) contained higher naphthalene concentrations (up to 0.102 J D mg/kg). Several other PAHs were detected above screening levels at MW-73, including 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, anthracene, dibenzofuran, fluoranthene, fluorene, and pyrene within the 7 feet bgs sample;

2-methylnaphthalene, acenaphthene, dibenzofuran, fluorene, and pyrene within the 11 feet bgs sample; and 2-methylnaphthalene and fluorene within the 15 feet bgs sample. No PAHs were detected above screening levels within the 17.7 feet bgs sample taken from MW-73. Groundwater samples taken from MW-37, MW-40, MW-41, MW-60, MW-61, MW-62, MW-63, MW-64, MW-72, MW-73, and MW-74 were analyzed for PAHs (Tables 25 and 26). Samples taken from MW-37, MW-40, MW-63, MW-72, and MW-74 did not contain detectable cPAHs. Samples taken from MW-41, MW-60, MW-61, MW-62, MW-64, and MW-73 contained sporadic cPAH detections with total cPAH TEQ values of up to 0.010 µg/L (but typically below 0.005 µg/L).

Except at MW-60, other PAHs were not detected above screening levels. Groundwater samples taken from MW-60 contained acenaphthene at up to 47.6 µg/L (above the screening level of 5.34 µg/L) within all four samples and fluorene at 5.13 µg/L (above the screening level of 3.67 µg/L) within one sample.

SVOCs: Soil samples taken from MW-72 were analyzed for full list SVOCs (Table 16). Low concentrations of pentachlorophenol were detected within the 1.0 feet bgs and 10.9 feet bgs samples (up to 0.00660 J mg/kg) above the screening level of 0.0000018 mg/kg. No other SVOCs were detected within the samples taken from MW-72.

Groundwater samples taken from MW-14, MW-32, MW-40, MW-41were analyzed for the limited list of SVOCs (Table 27) and samples taken from MW-63 and MW-72 were analyzed for the full list of SVOCs (Table 28). BEHP was detected within one sample taken from MW-40 (0.200 J µg/L) and one sample taken from MW-72 (0.200 J µg/L), above the screening level of 0.046 µg/L. Other analyzed SVOCs were not detected above screening levels within the groundwater samples.

VOCs: Soil samples taken from MW-60 and MW-73 were analyzed for HVOCs (Table 17). HVOCs were not detected within the samples. Groundwater samples taken from monitoring wells MW-14, MW-15, MW-36, MW-37, MW-40, MW-41, MW-60, MW-61, MW-62, MW-63, MW-64, MW-72, MW-73, and MW-74 were analyzed for HVOCs (Table 29). Vinyl chloride was detected above the screening level of 0.18 µg/L within groundwater samples taken from MW-40 (up to 0.390 µg/L), MW-41 (up to 0.510 µg/L), and MW-64 (up to 0.390 µg/L). Monitoring wells MW-41 and MW-64 are screened within the "B" zone.

Metals: As with other locations on the Site, soil samples taken from this area contained selenium and (to a lesser extent) vanadium at concentrations above screening levels (Table 18). Other metal exceedances were minor and limited to soil samples taken from the boring for MW-61. The 1.5 feet bgs sample taken from MW-61 contained arsenic at 8.71

mg/kg (above the screening level of 7.3 mg/kg), chromium at 89.6 mg/kg (above the screening level of 48 mg/kg), copper at 64.7 mg/kg (above the screening level of 36 mg/kg), and nickel at 227 mg/kg (above the screening level of 48 mg/kg). These metals were not detected above screening levels within deeper samples taken from the boring. The 11 feet bgs sample taken from MW-61 contained mercury at 0.0802 J*[13] mg/kg (above the screening level of 0.07 mg/kg.

Groundwater samples collected from the area contained several metals at concentrations above screening levels (Table 30), including:

- Total and dissolved arsenic were detected above the screening level of 8 µg/L within groundwater samples taken from several wells in the area. The highest concentrations and most frequent exceedances were observed within samples taken from MW-32, MW-36, MW-40, MW-41, MW-60, and MW-63, all located downgradient of the LNAPL plume. Total and dissolved arsenic were detected at concentrations as high as 73.8 and 36.2 µg/L (within a sample taken from MW-41), respectively. Samples taken from MW-37 (near the southern property boundary) did not contain arsenic at concentrations above the screening level.
- Total and dissolved cobalt (up to 7.40 D and 7.14 µg/L, respectively) were detected above the screening level of 4.8 µg/L within some of the samples taken from wells MW-15, MW-61, MW-62, and MW-73.
- Total and dissolved copper were detected above the screening level of 3.1 µg/L within one or more samples taken from MW-37, MW-40, MW-60, MW-61, MW-62, MW-63, MW-64, MW-72, and MW-73. The highest total copper concentrations were detected within samples taken from MW-73 (up to 38.9 µg/L); at other locations the detections were below 10 µg/L).
- Total and dissolved iron (up to 54,100 D and 35,100 D µg/L, respectively) were detected above the screening level of 32,000 µg/L within two of the samples taken from MW-60. One sample taken from MW-73 contained total iron at 33,400 D µg/L, just above the screening level.
- Total and dissolved manganese were detected above the background level of 2,000 µg/L at concentrations up to 4,270 D and 3,870 D µg/L, respectively within samples taken from MW-36 and MW-74. The highest detections were observed within wells located downgradient of the LNAPL plume.
- Total and dissolved nickel were detected above the screening level of 8.2 µg/L within some of the samples taken from MW-37, MW-61, MW-62, and MW-73. In general, detections were at or below approximately 12 µg/L. One of the samples taken from

[13] J* indicates an estimated concentration due to quality control failures. Flag applied by Shannon & Wilson.

MW-73 contained higher concentrations of total (23.4 µg/L) and dissolved (21.3 µg/L) nickel.

- Total mercury was detected above the screening level of 0.025 µg/L within several samples at concentrations up to 0.0440 J µg/L. No more than one mercury exceedance occurred in any location.

In general, metal screening level detections occurred most frequently and at higher concentrations within wells surrounding the LNAPL plume and may be attributable to TPH-degradation-related changes to the pH and Eh.

Summary: Soil and groundwater sampling within the vicinity of the Area 2 LNAPL plume confirmed that the LIF study had successfully delineated the LNAPL extents in soil. Limited dissolved-phase impacts extend from the plume to the west and southwest. Limited PAH, SVOC, and metal exceedances were observed within soil and groundwater; these are attributable to the petroleum impacts.

Vinyl chloride was detected at low levels (above the screening level) within samples taken from MW-40, MW-41 and MW-64 (Section 4.23).

4.4.3 Area 2 Light Nonaqueous Phase Liquid Transmissivity

To support evaluation of remedial options for the Area 2 LNAPL plume, two separate LNAPL transmissivity studies were completed (as outlined in Section 3.2.2.2 and detailed in Appendix C). Although the data did not exhibit a strong linear relationship, the data set from the first study was evaluated using the Bouwer-Rice method. The estimated LNAPL transmissivity values and standard errors are provided below (Exhibit 4-3).

Exhibit 4-3: Estimated Area 2 LNAPL Transmissivity Values

Well Name	LNAPL Plume	Construction Materials	Screened Interval (feet bgs)	LNAPL Transmissivity (ft^2/minute)	LNAPL Transmissivity (ft^2/day)	Standard Error of LNAPL Transmissivity (ft^2/minute)
MW-35	Area 2	2-inch PVC	5 to 20	1.5E-3	2.1	0.06

ft^2 = square feet

Due to the relatively high standard error values, a second "observational" transmissivity study was completed at the Site. The second study was comprised of extended LNAPL bail-down tests performed at MW-35.

Based on the collected data, an average of 0.7 gallon of LNAPL was removed per event from MW-35. The average excludes the initial bail-down and the bail-down immediately after the weekends. It is estimated that equilibrium conditions (i.e., static elevation of the air/LNAPL

and LNAPL/water interfaces) may be reestablished after approximately one to two weeks following removal of LNAPL from well MW-35.

Based on the results of the bail-down test, it appears that there is some potential for recovery of LNAPL from the Area 2 plume.

4.4.4 Area 2 Natural Source Zone Depletion Evaluation

The Area 2 LNAPL Plume was evaluated for dissolution of LNAPL in groundwater by comparing dissolved-phase TPH-D and TPH-O concentrations detected within upgradient and downgradient wells. Increased concentrations detected within downgradient wells would indicate that dissolution is occurring.

In general, TPH-D and TPH-O were detected at higher concentrations in downgradient wells (MW-60, MW-61, and MW-36) compared to upgradient wells (MW-14 and MW-15). TPH-D and TPH-O were not detected in upgradient well MW-72. Results of TPH-D and TPH-O analyses are provided in Table 23.

Evaluation of biodegradation of dissolved-phase hydrocarbons was completed by comparing indicator compounds detected within upgradient and downgradient wells during four quarterly monitoring events. Analytical results are provided in Table 32. Field measured parameters are summarized in Table 34.

Dissolved oxygen, nitrate, and sulfate may decrease in concentration in downgradient wells if biodegradation were occurring.

- Oxygen was detected in 4 of 8 upgradient samples and not detected in all 8 downgradient samples. Biodegradation is indicated by decreasing oxygen concentration.
- Nitrate concentrations appeared to be generally lower in downgradient wells that upgradient wells. Biodegradation is indicated by decreasing nitrate concentration.
- Sulfate concentrations appeared to be generally lower in downgradient wells that upgradient wells. Biodegradation is indicated by decreasing sulfate concentration.

Nitrite, manganese, ferrous iron, sulfite, and methane may increase in concentration in downgradient wells if biodegradation were occurring.

- Nitrite was detected in 1 of 16 samples. Due to the lack of detections, and evaluation for biodegradation using nitrite was not practicable.
- Concentrations of manganese, ferrous iron, and methane in downgradient wells were higher than concentrations in upgradient wells. Biodegradation is indicated by increasing concentrations of the analytes.

- Sulfite was detected in 3 of 12 analyzed samples. The detection occurred during August 2021 and were at two upgradient wells and one downgradient well. The downgradient concentration was lower than the upgradient concentration, which is the opposite trend expected for biodegradation. Based on the limited sulfite data, the presence of biodegradation was uncertain.

A summary of indicators of LNAPL dissolution and biodegradation is provided in Exhibit 4-4, below.

Exhibit 4-4: NSZD Evaluation Summary for Area 2 LNAPL

	Is the Presence of Dissolution or Biodegradation Indicated by Trends in Concentrations of Analytes? Area 2 LNAPL Plume
Dissolution of LNAPL	
TPH-D	Yes
TPH-O	Yes
Biodegradation	
Oxygen	Yes
Nitrate	Yes
Sulfate	Yes
Nitrite	Not sufficient data.
Manganese	Yes
Ferrous Iron	Yes
Sulfite	No
Methane	Yes

Based on groundwater monitoring, it appears that dissolution of LNAPL is occurring, and biodegradation of dissolved-phase hydrocarbons is occurring from oxygen reduction through methanogenesis in the Area 2 LNAPL Plume.

4.4.5 Star Forge Underground Storage Tank Decommissioning

During UST removal activities completed by Star Forge in 2023, the tanks within the Decommissioned Diesel Storage Area were observed to be in poor condition with "significant corrosion and pitting" on each tank. In some cases, "corrosion holes were visible completely through the tank walls" (DH Environmental, Inc., 2024b). It should be noted that the tanks within this area passed tank tightness tests completed in 1990-1991 and in 1996. A return line located below the former AHTB failed to pressurize during the 1996 tightness tests, and the tanks have not been used since 1996 (Section A.3.2 of Appendix A). Based on the tank tightness test results, it appears likely that the corrosion and pitting

occurred after the tanks were no longer in service. During the removal effort, Star Forge confirmed that the vault in which the tanks were situated did not include a concrete base.

Star Forge removed the eight tanks, the concrete vault, fill that surrounded the tanks, and piping that extended west from the tanks below the former AHTB and to the utilidor. Star Forge collected the following confirmation samples (Exhibit 4-5):

- Excavation base samples collected from 8.5 feet bgs at eight locations designated as ST-SS-1 through ST-SS-8. The samples were taken from below the west end of the excavation (corresponding to the fill port locations on each of the eight USTs).
- Excavation sidewall samples collected from 6.5 feet bgs at eleven locations designated as ST-SS-9 through ST-SS-19. The sidewall samples were distributed evenly around the excavation. One of the sidewall samples (ST-SS-15) was taken from stained soil near the former fill port for the USTs at the southern end of the western sidewall.
- Three samples taken from below piping designated ST-piping-SS-20 through ST-piping-SS-22. Of these, ST-piping-20 was collected from a depth of 6.5 feet bgs (from below the utilidor immediately west of the former AHTB) and ST-piping-20 and ST-piping-21 were collected from 2 feet bgs immediately below piping trenches below the former AHTB footprint.

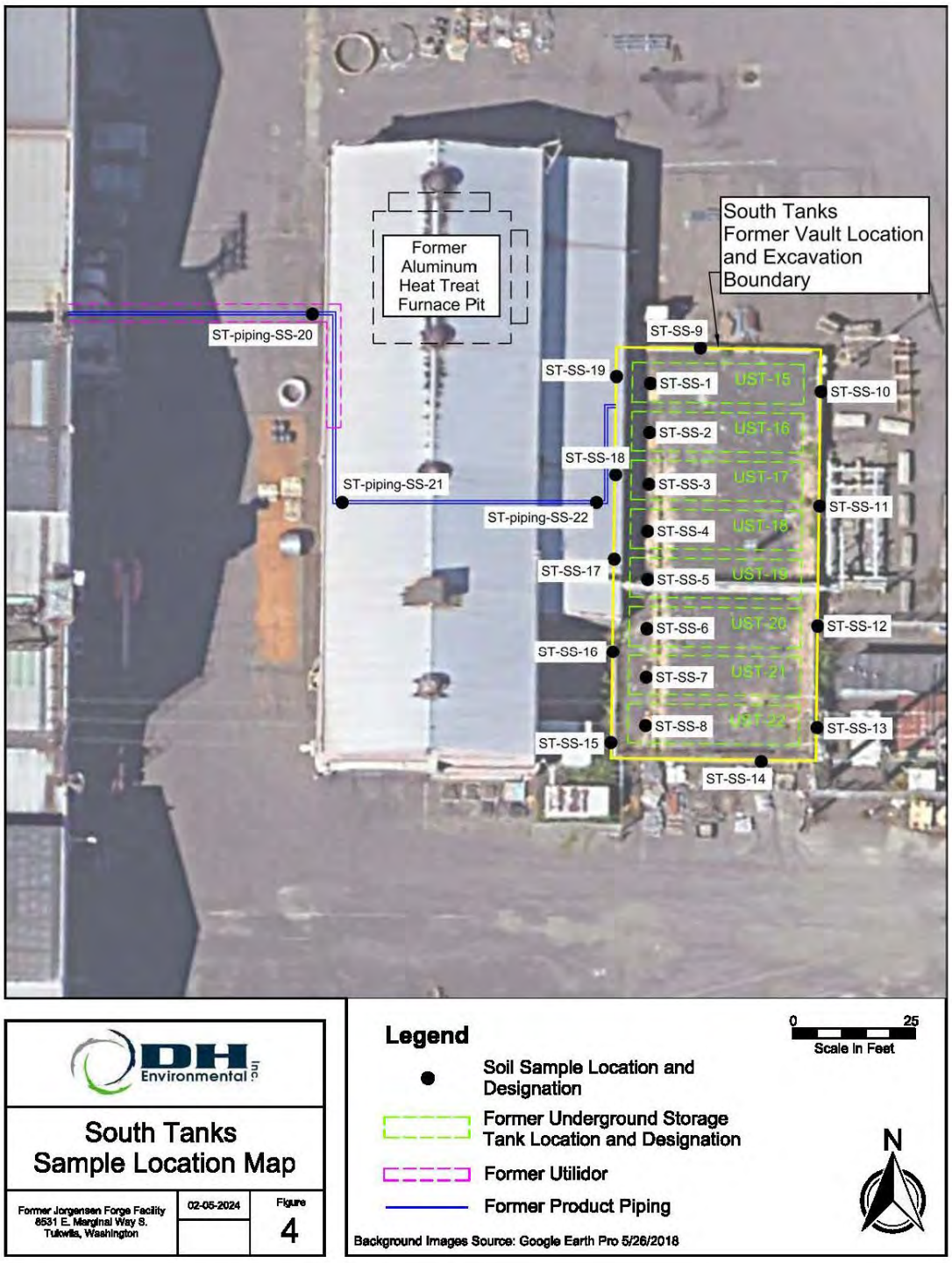


Exhibit 4-5: Decommissioned Diesel Storage Area Confirmation Sampling (DH Environmental, Inc., 2024c)

The 22 confirmation samples were analyzed for petroleum hydrocarbons, with follow-up testing completed on seven selected samples for BTEX, cPAHs, PCBs, and metals. The UST

decommissioning and site assessment report (DH Environmental, Inc., 2024c) is provided in Appendix I. Soil sample results have been summarized in Table 36. Key findings include:

- TPH-D was detected at concentrations exceeding the screening level of 2,000 mg/kg within the two southernmost excavation base samples (concentrations up to 5,300 mg/kg), within four of the five sidewall samples taken from the west wall of the excavation (concentrations up to 18,000 mg/kg), and within the piping sample taken to the west of the former AHTB (concentration of 3,400 mg/kg).
- TPH-O was detected at concentrations ranging from 85 mg/kg to 860 mg/kg within four samples, including one excavation base sample and the three samples taken from below piping. The TPH-O detections were all below the screening level of 2,000 mg/kg.
- TPH-G was detected above the screening level of 100 mg/kg within two of the confirmation samples, including the southernmost excavation base sample (concentration of 1,300 mg/kg) and the piping sample taken to the west of the former AHTB (220 mg/kg).
- Toluene (up to 0.40 mg/kg), ethylbenzene (up to 0.80 mg/kg), and xylenes (up to 6.5 mg/kg) were detected above their respective screening levels of 0.044 mg/kg, 0.010 mg/kg, and 0.055 mg/kg. These exceedances occurred within the two samples that had contained TPH-G and within the sidewall sample taken from stained soils (ST-SS-15). Benzene was not detected within the seven analyzed samples.
- Five of the seven analyzed samples contained cPAHs (total cPAH TEQ concentrations up to 0.830 mg/kg). These exceedances occurred within the three piping samples and two of the sidewall samples, including the sample taken from stained soils.
- PCBs were not detected within the seven analyzed samples.
- Arsenic (up to 31 mg/kg), cadmium (up to 0.85 mg/kg), chromium (55 mg/kg), copper (up to 67 mg/kg), and nickel (up to 94 mg/kg) were each detected within one or more samples at concentrations above their respective screening levels of 7.3 mg/kg, 0.77 mg/kg, 48 mg/kg, 36 mg/kg, and 48 mg/kg. Metals exceedances were limited to the three piping samples.

The results from the Star Forge decommissioning sampling effort indicate that TPH-D and, to a lesser extent, TPH-G are present within soil adjacent to and below the former Decommissioned Diesel Storage Area UST excavation at concentrations above screening levels. The contamination was most prevalent within excavation base samples taken from the southern end of the excavation and within west sidewall samples. The highest TPH-D detections (18,000 mg/kg at ST-SS-17 and 15,000 mg/kg at ST-SS-15) exceed residual saturation levels for TPH-D,[14] indicating that a portion of the LNAPL is potentially

[14] Applicable residual saturation concentrations for gasoline include 3,387 mg/kg (medium to coarse sand), 5,833 mg/kg (fine to medium sand), and 10,000 mg/kg (silt to fine sand).

hydraulically recoverable. The contaminant distribution is consistent with releases during tank filling operations, as they were observed in areas adjacent to the fill ports. As shown in Figure 19, this area appears to be separate from the LIF-delineated impacts.

4.4.6 Summary of Findings

The LIF study successfully delineated the extent of LNAPL in soil, both horizontally and vertically. The LIF readings, supported by analytical results for soil samples taken from A2-07A and A2-16A (completed adjacent to the LIF boring with greatest LIF response), indicate that multiple release areas are responsible for the LNAPL observed in Area 2.

Analytical results for soil samples taken from boring A2-07A and A2-16A served to confirm the ability of the LIF technology to identify LNAPL within the subsurface. The samples contained TPH-G, TPH-D, and TPH-O. TPH-O was measured most predominantly at A2-16A. TPH-D with TPH-G was most predominant at A2-07A. The deepest samples from the borings contained only low concentrations (below screening levels) or non-detectable levels of petroleum hydrocarbons, indicating that vertical delineation has been achieved.

Confirmation samples collected during the Star Forge 2023 UST decommissioning effort identified an additional area of soil impact associated with the Decommissioned Diesel Storage Area USTs. The samples contained TPH-D and, to a lesser extent, TPH-G.

Soil samples taken from borings for plume perimeter wells MW-60 and MW-61 confirmed that horizontal delineation has been achieved. Groundwater samples taken from within the vicinity of the Area 2 LNAPL show that dissolved-phase impacts, predominantly TPH-D, are present to the west and southwest of the LNAPL but do not extend off-site to the south (bounded by MW-37) and do not extend as far as MW-63 to the west.

Petroleum impacts within Area 2 are summarized in Figure 19. The figure overlays the extent of LNAPL on groundwater (as observed in monitoring wells) with the extent of LNAPL detected by the LIF study, along with the dissolved-phase impacts. Historical LNAPL on groundwater extents (as observed in monitoring wells) are summarized in Figure 20.

The TPH-G, TPH-D, and TPH-O concentrations measured within soil samples taken from Area 2 during the RI did not exceed residual saturation screening levels. However, two of the confirmation samples collected during the 2023 Star Forge UST decommissioning effort contained TPH-D at concentrations above residual saturation screening levels.

Applicable residual saturation concentrations for diesel include 7,742 mg/kg (medium to coarse sand), 13,333 mg/kg (fine to medium sand), and 22,857 mg/kg (silt to fine sand).

Additionally, TPH-D has been detected above residual saturation screening levels during previous investigations at the Site. A portion of the LNAPL within Area 2 may be hydraulically recoverable. The transmissivity studies also demonstrated potential for recovery.

NSZD evaluation findings for the Area 2 plume confirmed that dissolution of LNAPL to groundwater is occurring and biodegradation of dissolved-phase hydrocarbons is likely occurring from oxygen reduction through methanogenesis.

4.5 Area 3 Gasoline Underground Storage Tanks

Three USTs previously occupied an area adjacent to the Site entrance along the eastern Site boundary (Figure 2A). From north to south, the tanks included a 2,000-gallon UST, a 1,000-gallon UST, and an 8,000-gallon UST. The 8,000-gallon UST was reportedly installed in 1978, registered with Ecology, and used to store gasoline. It is not known when the 1,000- and 2,000-gallon USTs were installed and what they were used to store, though it is presumed that they were also used to store gasoline. During investigations completed in 1990, fuel-related contamination was identified adjacent to the USTs.

The tanks were decommissioned and removed in 1991 along with approximately 66 cubic yards of soil. Figure B-4 of Appendix B shows the excavation extents and historical sample locations. Figure B-3 of Appendix B shows a wider area of the Site, including wells located downgradient of the USTs. The northern two unregistered USTs were observed to be in poor condition with the larger southern UST noted as being in fair condition. Excavation base samples taken from below the northern two USTs contained TPH-G at concentrations of 180 mg/kg (sample T3-8 from below northernmost tank) and 1,500 mg/kg (sample T2-10 from below center tank), above the TPH-G screening level of 100 mg/kg. Sample T3-8, taken from below the northernmost tank, also contained benzene at 0.120 mg/kg, above the screening level of 0.00056 mg/kg. Samples taken from below the large southernmost tank did not contain TPH-G or benzene at concentrations above the screening level.

As shown in Figure B-4 of Appendix B, monitoring wells MW-3 and MW-4 are located adjacent to the northern two USTs (MW-4 adjacent to the northernmost tank). Wells MW-8 and MW-11 are located downgradient of the area to the west-southwest and southwest, respectively. Samples taken in the early 1990s from monitoring wells MW-3, MW-4, and MW-8 contained elevated concentrations of TPH-G (up to 59,000 µg/L in MW-4) and benzene (up to 1,200 µg/L in MW-4). MW-11 did not contain detectable concentrations of TPH-G and low (below screening level) concentrations of benzene. A treatment system using in situ air injection combined with in situ vapor extraction was installed and operated

beginning in 1993. The system appeared to be effective; TPH-G and benzene concentrations reduced to below detectable levels.

During the August 2017 groundwater sampling event, TPH-G was detected at concentrations above the screening level of 1,000 µg/L (up to 2,640 µg/L) within the MW-3 and MW-4 samples (higher concentrations at MW-4), suggesting possible rebound. Samples taken from the same wells did not contain elevated TPH-G in February 2018.

RI activities included limited soil sampling (from boring SB-2021-033, SB-2021-034, and SB-2021-035) to evaluate for the presence of remaining TPH-G soil contamination at levels above screening levels and groundwater sampling from the existing wells to evaluate trends in the area. In addition, MTBE, which had not been previously analyzed for, was included within the groundwater sampling schedule. Investigation locations within Area 3 are shown in Figure 16A. Historical sample locations are presented in Figure B-4 of Appendix B.

TPH, BTEX, and MTBE: Boring SB-2021-033 was completed within the footprint of the northernmost (2,000-gallon) UST excavation. Petroleum sheen and odor were observed beginning at the water table (10.7 feet bgs). Sheen was visible between 10.7 and 12.7 feet bgs and odor was observed to decrease with depth until it was no longer discernable at 18.1 feet bgs. A sample taken from 11 feet bgs from the boring contained elevated TPH-G (1,420 mg/kg) (Table 12). TPH-G was detected at 22.6 mg/kg (below the screening level) within the 15 feet bgs sample and was not detected within the 18 feet bgs sample. The historical maximum benzene detection (0.120 mg/kg in sample T3-8) was collected below the northernmost tank; however, benzene was not detected within the samples taken from SB-2021-033, indicating that the remediation system reduced benzene soil concentrations to below detectable levels.

Boring SB-2021-034 was completed within the footprint of the center (1,000-gallon) UST excavation, completed near the location of historical sample T2-10 (where the historical maximum TPH-G concentration of 1,500 mg/kg was detected). Strong petroleum odor was noted at the groundwater table (10.7 feet bgs) and was noted to decrease with depth until it was no longer discernable at 21 feet bgs. TPH-G was detected at 179 J* mg/kg within a sample taken from 10.7 feet bgs (above the screening level of 100 mg/kg). A duplicate sample taken from the same depth contained TPH-G at below the screening level (83.8 J* mg/kg). TPH-G was detected at 29.8 mg/kg (below the screening level) within the 15 feet bgs sample and was not detected within the 21 feet bgs sample. Low concentrations of benzene (though above the screening level) were detected within the primary and duplicate samples taken from 10.7 feet bgs (up to 0.00145 J* mg/kg) but was not detected within the deeper samples.

Boring SB-2021-035 was completed within the footprint of the southern (8,000-gallon) UST excavation. Groundwater was noted within the boring at 11 feet bgs. No indication of petroleum contamination was observed. Samples taken from 11 and 13.8 feet bgs from the boring did not contain detectable concentrations of TPH-G. Benzene was detected at low concentrations (though above the screening level) within both samples. The 11 feet bgs sample contained a higher benzene concentration of 0.00100 J mg/kg.

During the four quarterly RI groundwater sampling events, samples taken from monitoring wells MW-3, MW-4, MW-8, MW-11 (locations shown in Figure B-3 of Appendix B), and further downgradient well MW-14 (location shown in Figure B-3 of Appendix B) were analyzed for TPH-G, BTEX, and MTBE (Table 23). TPH-G was detected within the samples taken from MW-3 (up to 536 µg/L) and MW-4 (up to 2,960 µg/L). For both wells, the sample results appear to be seasonally linked with higher detections occurring during the May and August events and lower (or non-detect) results occurring during the February and November events. This trend is consistent with the recent 2017-2018 sampling events; elevated concentrations measured during the August 2017 event and low concentrations noted during the February 2018 event. TPH-G was not detected within the samples taken from MW-8, MW-11, or MW-14. Benzene and MTBE were not detected within any of the groundwater samples; toluene, ethylbenzene, and xylenes were detected at low levels (below screening levels).

PCBs, PAHs, and SVOCs: Soil samples taken from this area were not analyzed for PCBs, PAHs, or SVOCs.

VOCs: Soil samples taken from SB-2021-033 and SB-2021-034 were analyzed for HVOCs. HVOCs were not detected within the samples (Table 17). Groundwater samples taken from MW-3 were analyzed for HVOCs (Table 29). HVOCs were not detected within the samples.

Metals: Soil samples from this area were not analyzed for metals. Groundwater samples taken from MW-4, MW-8, MW-11, and MW-14 were analyzed for selected metals (Table 30). Arsenic, copper, and mercury were each detected above screening levels within one or more samples, including:

- Three of four samples taken from MW-8 contained total and dissolved arsenic at concentrations above the 8 µg/L screening level (up to 26.5 and 25.6 µg/L) respectively. One sample taken from MW-14 also contained total arsenic at just above the screening level (8.10 µg/L); dissolved arsenic within the sample was below the screening level.
- Total copper was detected above the screening level of 3.1 µg/L within two of the four sample taken from MW-4 (up to 4.88 µg/L). Dissolved copper was detected above the screening level in one sample (3.36 µg/L) from the well.
- One sample taken from MW-14 contained total mercury at 0.0270 J µg/L, just above the screening level of 0.025 µg/L.

Metal impacts within groundwater were limited and may be attributable to increased mobility resulting from TPH-degradation-related pH changes.

Summary: TPH-G and benzene (to a lesser extent) impacted soil remains present below the base of the excavations completed during removal of the gasoline USTs. TPH-G was detected above screening levels below the northernmost and center UST excavations, with higher concentrations below the northernmost UST excavation. Benzene was detected below the center and southernmost UST excavations.

The contamination was first observed at the groundwater table (10.7 feet bgs) and appears to be limited in depth. Samples taken from 15 feet bgs did not contain TPH-G or benzene at concentrations above screening levels.

The sample taken from 11 feet bgs from boring SB-2021-033 (associated with the northernmost UST excavation), contained TPH-G at 1,420 mg/kg. This concentration is above the LNAPL saturation concentration[15] but below the residual saturation concentrations for gasoline[16], suggesting that free product is present but immobile.

TPH-G was measured above the screening level within one groundwater sample taken from MW-4 (adjacent to the northernmost UST excavation) and below screening levels within samples taken from MW-3 (adjacent to the center UST). TPH-G concentrations were seasonal, with higher levels noted during events completed during dryer months (May and August 2021). Benzene impact was not observed in groundwater.

Groundwater contamination associated with the USTs was not observed at downgradient wells MW-8, MW-11, or MW-14 except for limited metal exceedances that may be associated with increased mobility resulting from TPH-degradation-related pH changes.

4.6 Decommissioned Oil Storage Area (Area 4)

The Decommissioned Oil Storage Area was located outside to the east of the former main building (Figure 2A). At the time of the RI, the area included ten 15,000-gallon tanks, which were situated within the basement of a former office building and partially above-grade. Historically, the tanks were used to store heating oil and diesel fuel. After tank tightness testing in 1990/1991, three of the USTs were closed in place by filling with inert material. Use of the remaining tanks, except the southernmost tank, was reportedly discontinued. The southernmost UST was repurposed as a settling tank within the Oil Recovery Area. The Oil Recovery Area included an oil-water separator comprised of the settling tank and a used oil centrifuge; a clean hydraulic oil tank; and a waste oil tank. This area was used until the facility ceased operations in 2018.

[15] Applicable LNAPL saturation concentrations for gasoline include 143 mg/kg (medium to coarse sand), 215 mg/kg (fine to medium sand), and 387 mg/kg (silt to fine sand) (API, 2000).
[16] Applicable residual saturation concentrations for gasoline include 3,387 mg/kg (medium to coarse sand), 5,833 mg/kg (fine to medium sand), and 10,000 mg/kg (silt to fine sand) (API, 2000).

Soil sampling within this area was completed in the 1990s. Limited petroleum hydrocarbons soil impacts were identified. Soil impacts were limited to a single TPH-O detection of 14,000 mg/kg, measured within a sample taken from boring SB9 from between 8 and 8.7 feet bgs (Figure B-3 of Appendix B). A deeper sample (from between 10 and 11 feet bgs) from the boring did not contain detectable TPH-O. No other impacted soil was identified within the area.

Monitoring well MW-10 (no longer present) was located to the west of the tanks, MW-11 is located to the east of the tanks, and MW-14 is located to the south of the tanks. Groundwater samples taken from monitoring well MW-10 historically contained elevated concentrations of TPH-D (up to 9,600 µg/L) and TPH-O (up to 18,100 µg/L). A single groundwater sample taken from the well was analyzed for PAHs; several PAHs were detected above screening levels. Samples taken from MW-11 and MW-14 have contained elevated concentrations of TPH-D (up to 4,960 µg/L at MW-11 and up to 7,890 µg/L at MW-14) and TPH-O (up to 1,940 µg/L at MW-11 and up to 6,730 µg/L at MW-14), though at lower concentrations than MW-10. PAHs have not been detected within samples taken from MW-11 and MW-14.

MW-10 has not been sampled since 2008; the well was found to be damaged and was decommissioned in 2017. Since sampling began in the early 1990s, petroleum hydrocarbon concentrations at well MW-11 and MW-14 have been showing a decreasing trend.

Investigation locations within Area 4 are shown in Figure 16A. Historical sample locations are presented in Figure B-3 of Appendix B.

Between August and October 2023, Star Forge decommissioned ten 15,000-gallon USTs from the Decommissioned Oil Storage Area, completed removal, excavation, and off-site disposal of the concrete vault structure that housed the USTs and fill (sand and slag) that formerly filled the space between USTs, removed subsurface piping, and collected confirmation samples. Text, tables, figures, and selected appendices from the UST decommissioning and site assessment report (DH Environmental, Inc., 2024b) are provided in Appendix I.

4.6.1 Area 4 Soil and Groundwater Sampling

During the RI, MW-10R was installed to replace the previously decommissioned MW-10. MW-62 was installed within the main building to the west-southwest of MW-10R. Groundwater samples were collected from the newly installed wells and from existing well MW-11.

TPH and BTEX: During drilling of the boring for MW-10R, field indication of petroleum impact was not observed. Soil samples taken from the boring contained very low (up to

29 mg/kg) concentrations of TPH-O (Table 12). Benzene was detected within the samples at concentrations ranging from 0.000620 J to 0.00184 J* mg/kg, above the screening level of 0.00056 mg/kg. Results for soil samples taken from the boring for MW-62 were similar except that TPH-D was also detected (very low concentrations of up to 29.3 mg/kg) and benzene was not analyzed.

Groundwater samples taken from MW-10R and MW-62 did not contain detectable concentrations of TPH-D, TPH-O, or BTEX (Table 23). Groundwater samples taken from MW-11 contained TPH-D at concentrations ranging from 173 JH* to 1,070 µg/L with two of the detections above the screening level of 500 µg/L. Groundwater samples taken from MW-14 contained TPH-D and TPH-O at concentrations up to 790 µg/L and 538 µg/L, respectively, with only one sample containing TPH-D and TPH-O at concentrations above the screening level.

PCBs: Groundwater samples taken from MW-10R and MW-62 were analyzed for PCBs (Tables 14 and 24). PCBs were not detected within the samples.

PAHs: Soil samples taken from the borings for MW-10R and MW-62 contained low concentrations of several cPAHs, with benzo(a)pyrene and total cPAH TEQ at concentrations above screening levels (Table 14). At both locations, the highest total cPAH TEQ values (up to 0.005 mg/kg at MW-10R and up to 0.02 mg/kg at MW-62) were detected within soil samples taken from near the water table. Naphthalene (Table 15) was also detected above its screening level of 0.002 mg/kg within one or more samples taken from each boring; the highest concentrations (0.05 mg/kg at MW-10R and 0.01 mg/kg at MW-62) were detected within the samples taken from near the water table.

A single groundwater sample taken from each of the wells contained chrysene at low detectable concentrations (below the screening level) with total cPAH TEQ values of 0.0013 mg/kg (above the screening level of 0.000016 mg/kg), but did not otherwise contain detectable cPAHs (Table 25). PAHs (such as naphthalene) were not detected within groundwater samples taken from the wells (Table 26).

SVOCs: Samples from this area were not analyzed for SVOCs, other than PAHs.

VOCs: Soil samples taken from the exploration for MW-10R and groundwater samples taken from MW-10R, MW-14, MW-62 were analyzed for HVOCs (Tables 17 and 29). No HVOCs were detected within the samples with the exception of a single vinyl chloride detection within one groundwater sample taken from MW-62 (concentration of 0.002525 J µg/L) and two vinyl chloride detections within samples taken from MW-14 (concentrations up to 0.0207 µg/L). The detections were below the screening level of 0.18 µg/L.

Metals: As with other locations on the Site, soil samples taken from the borings for MW-10R and MW-62 contained selenium and sometimes vanadium at concentrations above screening levels (Table 18). One soil sample taken from MW-10R (from 9 feet bgs) contained copper at 38.8 mg/kg, just above the screening level of 36.38 mg/kg.

Groundwater samples taken from MW-62 during three of four groundwater sampling events contained total cobalt (up to 6.66 µg/L) and total copper (up to 4.94 µg/L), just above the screening levels of 4.8 and 3.1 µg/L, respectively. Dissolved cobalt was also detected above the screening level (up to 5.15 µg/L) within two of the samples. One groundwater sample taken from MW-62 contained total and dissolved nickel at concentrations of 11 and 9.03 µg/L (above the screening level of 8.2 µg/L). These higher concentrations are likely attributed to increased mobility associated with TPH-degradation-related pH changes. Groundwater samples collected from MW-10R did not contain metals at concentrations above screening levels.

Total arsenic (8.10 µg/L) and total mercury (0.0270 J µg/L) were each detected slightly above their respective screening levels of 8 µg/L and 0.025 µg/L within one groundwater sample (each) taken from MW-14.

Summary: The RI investigation did not identify a soil source area within the vicinity of the Decommissioned Oil Storage Area. Impacts that were previously observed in groundwater at MW-10 were not observed in newly installed well MW-10R or in downgradient well MW-62 suggesting that these impacts have naturally attenuated since use of the area was changed in the early 1990s. Impacts to groundwater at MW-11 and MW-14 appear to be limited and reducing with time.

4.6.2 Star Forge Underground Storage Tank Decommissioning

During UST removal activities completed by Star Forge in 2023, the tanks within the Decommissioned Oil Storage Area were observed to be in good condition and "no holes or significant corrosion were visible" (DH Environmental, Inc., 2024b). During the removal effort, Star Forge confirmed that the vault (a former building basement) in which the tanks were situated included a concrete base.

Star Forge removed the ten tanks, the concrete vault, fill that surrounded the tanks, and piping that extended south from the tanks to the former AHTB. Star Forge collected the following confirmation samples (Exhibit 4-6):

- Excavation base samples collected from 6.5 feet bgs at 10 locations designated as NT-SS-26 through NT-SS-35. All but one of the excavation base samples (NT-SS-35) were taken from below the east end of the excavation (corresponding to the fill port locations on each of the USTs). Base sample NT-SS-35 (below the southernmost UST) was

collected at the location where a sump, believed to be a feature of the building basement that was used as the UST vault, was observed. Sample NT-SS-31 was located near the former fill port for the USTs.

- Excavation sidewall samples collected from 5.0 feet bgs at 13 locations designated as NT-SS-11 through ST-SS-23. The sidewall samples were distributed evenly around the excavation. Samples NT-SS-13, NT-SS-14, NT-SS-17, and NT-SS-18 were placed in areas where staining was observed. Of these, NT-SS-13 and NT-SS-14 were located on the east sidewall, with NT-SS-14 located near the former fill port for the USTs. NT-SS-17 and NT-SS-18 correspond to a southern sidewall sample and a sidewall sample at the southern end of the western sidewall, both within the former Oil Recovery Area.
- Three samples collected from below piping designated NT-piping-SS-24 through NT-piping-SS-26. The samples were collected from 2 feet bgs immediately below piping trenches that ran south to the AHTB.



Exhibit 4-6: Decommissioned Oil Storage Area Confirmation Sampling(DH Environmental, Inc., 2024c)

The 26 confirmation samples were analyzed for petroleum hydrocarbons, with follow-up testing completed on eight selected samples (including a duplicate) for BTEX, cPAHs, PCBs,

and metals. The UST decommissioning and site assessment report (DH Environmental, Inc., 2024c) is provided in Appendix I. Soil sample results have been summarized in Table 36. Key findings include:

- TPH-D was detected at concentrations exceeding the screening level of 2,000 mg/kg within one excavation base sample (NT-SS-34) and within four sidewall samples (NT-SS-13, NT-SS-14, NT-SS-17, and NT-SS-18). The highest concentration of 25,000 mg/kg was measured within sidewall sample NT-SS-17 adjacent to the waste oil storage area.
- TPH-O was detected at concentrations exceeding the screening level of 2,000 mg/kg within three excavation base samples (NT-SS-31, NT-SS-34, and NT-SS-35), within four sidewall samples (NT-SS-13, NT-SS-14, NT-SS-17, and NT-SS-18), and within one piping sample (NT-piping-SS-24). The highest concentration of 200,000 mg/kg was measured within sidewall sample NT-SS-17.
- TPH-G was detected above the screening level of 100 mg/kg within one excavation base sample (NT-SS-34), within four sidewall samples (NT-SS-14, NT-SS-15, NT-SS-17, and NT-SS-18). The highest concentration of 480 mg/kg was measured within sidewall sample NT-SS-17.
- Ethylbenzene (concentrations of up to 0.15 mg/kg) and xylenes (concentrations of up to 0.54 mg/kg) were detected above their respective screening levels of 0.010 mg/kg and 0.055 mg/kg within some of the samples. The highest concentrations were detected within samples that also contained elevated TPH-G concentrations. Benzene and toluene were not detected within the eight samples.
- Five of the eight analyzed samples contained cPAHs (total cPAH TEQ concentrations up to 0.172 mg/kg). These detections occurred within excavation base sample NT-SS-35, within sidewall samples NT-SS-13, NT-SS-17, and NT-SS-18, and within the piping sample NT-piping-SS-24. The highest detection was measured within sample NT-SS-13.
- PCBs were detected within four samples at concentrations up to 0.52 mg/kg. These detections occurred within sidewall samples NT-SS-13, NT-SS-17, and NT-SS-18, and within piping sample NT-piping-SS-24. The highest detection was measured within sample NT-piping-SS-24.
- Arsenic was detected at 39 mg/kg, above its screening level of 7.3 mg/kg within excavation base sample NT-SS-31. Other metals were not detected within the sample at concentrations above screening levels. The sample taken from NT-piping-SS-24 contained arsenic (27 mg/kg), chromium (100 mg/kg), copper (150 mg/kg), lead (140 mg/kg), nickel (910 mg/kg), and zinc (190 mg/kg) above their respective screening levels of 7.3 mg/kg, 48 mg/kg, 36 mg/kg, 56 mg/kg, 48 mg/kg, and 85 mg/kg.

The results from the Star Forge decommissioning sampling effort indicate that TPH-D, TPH-O, and TPH-G (to a lesser extent) are present within soil adjacent to and below the former Decommissioned Oil Storage Area UST excavation at concentrations above screening levels. The contamination was most prevalent within excavation base and sidewall samples

at the southern end of the excavation (the Oil Recovery Area), sidewall samples on the east wall of the excavation (where tank fill ports were located), within the excavation base sample closest to the fill port for the USTs), and adjacent to the UST vault below piping than ran to the south towards the AHTB.

4.6.3 Summary of Findings

The RI did not identify soil or groundwater impacts downgradient of the Decommissioned Oil Storage Area at MW-10R or MW-62, except for low detections of cPAHs in soil and groundwater at MW-10R (above the screening level). Groundwater impacts were historically present at MW-10 and remain present at wells MW-11 and MW-14 to the east and south of the area.

Confirmation samples collected during the Star Forge 2023 UST decommissioning effort identified soil impacts within excavation base and sidewall samples, and within a sample taken below a pipe that ran south towards the former AHTB. The impacts appear consistent with releases from the Oil Recovery Area at the south end of the Decommissioned Oil Storage Area, releases during tank filling operations (along the east side of the former USTs), and a release from the piping immediately adjacent to the area.

The soil impacts were identified within samples taken from depths ranging between 2 and 6.5 feet bgs. The highest concentrations were measured within excavation sidewall samples taken from 5 feet bgs. During installation of nearby well MW-10R, groundwater was observed within the boring at 10 feet bgs. During subsequent sampling events, groundwater was measured within the well at approximately 7 to 8 feet bgs. Based on the lack of groundwater impacts downgradient of the former Decommissioned Storage Area (at MW-10R and MW-62), continued decreasing trends observed at MW-11 and MW-14, the confirmation sample depths, and the groundwater depths measured at MW-10R, it appears that the vertical extent of soil contamination associated with the Decommissioned Oil Storage Area is likely limited.

Limited groundwater impacts remain present at MW-11 and MW-14, located to the east and south of the Decommissioned Oil Storage Area, respectively.

4.7 Machine Shop Shallow Soils

In early 2020, a product seep was observed within the Large Bullard vault, located within the Machine Shop area of the main building (Figure 2A). A sample of the product was analyzed and identified as TPH-O. In 2007, geotechnical studies were completed at the Site to support capital improvement projects. An exploration was completed within this area to support foundation design for the new Bueltman bar peeler (FB-3). TPH-O was measured at

140,000 mg/kg within a sample taken from FB-3 at 3 to 5 feet bgs (Figure B-3 of Appendix B). An excavation was completed to 6 feet bgs during the foundation installation activities and contaminated soil was removed; the extent of the removal is not known.

During the RI, borings SB-2020-001, SB-2021-002, SB-2020-028, SB-2020-029, and SB-2020-045 were completed at the east end of the Machine Shop area of the main building to a depth of 10 feet bgs. In addition to investigating the Machine Shop features, boring SB-2020-045 was also intended to assess for potential contamination associated with adjacent transformers (at east of building). Two soil samples were taken from each boring and submitted for analysis. No indication of contamination was observed within the borings. Investigation locations within this area are shown in Figure 16A. Historical sample locations are presented in Figure B-3 of Appendix B.

TPH and BTEX: The soil samples collected were analyzed for TPH-D and TPH-O and a subset of the samples were also analyzed for TPH-G and BTEX. Petroleum hydrocarbons were not detected above screening levels. The shallow samples taken from borings SB-2021-002 and SB-2020-029 contained TPH-O at concentrations of 33.9 and 203 mg/kg, respectively (Table 12). The sample taken from SB-2021-002 also contained TPH-D at 21.4 mg/kg. The deeper samples taken from these explorations did not contain detectable petroleum hydrocarbons. Petroleum hydrocarbons were not detected within samples taken from the other borings. The samples taken from SB-2020-045 were analyzed for BTEX. Only low detections of toluene, well below the screening level, were detected within the samples.

PCBs: Samples taken from SB-2021-002 and SB-2020-045 were analyzed for PCBs (Table 13). The shallow sample taken from SB-2021-002 contained very low but detectable concentrations of PCBs (0.00110 J mg/kg); specifically, Aroclor 1260. The deeper sample did not contain detectable PCBs and the samples taken from SB-2020-045 (located adjacent to the transformers) did not contain detectable PCBs.

PAHs: Samples were analyzed for PAHs (Tables 14 and 15). All of the analyzed samples contained low concentrations of cPAHs with total cPAH TEQ values ranging from 0.000159 to 0.0116 mg/kg. At all five locations, cPAH concentrations were detected at greater concentrations within the shallower sample. The highest cPAH concentration was measured within the shallow sample taken from SB-2021-002. Naphthalene was also detected above its screening level of 0.0021 mg/kg within the shallowest sample taken from each boring (except SB-2020-045) at concentrations of up to 0.0313 mg/kg.

SVOCs: Samples taken from this area were not analyzed for SVOCs (other than PAHs).

VOCs: The samples taken from SB-2020-045 were analyzed for HVOCs (Table 17). HVOCs were not detected within the samples.

Metals: Some of the soil samples taken from this area contained selenium and vanadium at concentrations above screening levels (Table 18). This occurred frequently within other areas of the Site, but was less apparent within these samples. The shallower samples taken from SB-2020-001, SB-2021-002, and SB-2020-028 contained higher concentrations of these metals and several additional metals at concentrations above screening levels, including:

- Arsenic, copper, and vanadium were detected at concentrations of up to 11.2 mg/kg, 43.3 mg/kg, and 60.9 mg/kg, respectively (above the respective screening levels of 7.3 mg/kg 36.38 mg/kg, and 45 mg/kg) within the 3 feet bgs sample taken from SB-2020-002 and the 2.3 feet bgs sample taken at SB-2020-028.
- Selenium was detected at concentrations of up to 2.12 J mg/kg within the 3 feet bgs and 6 feet bgs samples taken from SB-2020-002 and the 2.3 feet bgs sample taken at SB-2020-028 (above the screening level of 0.78 mg/kg).
- Zinc was measured at 114 mg/kg within the 2.2 feet bgs sample taken from SB-2020-001 (above the screening level of 85 mg/kg.
- Mercury was detected at concentrations of up to 0.169 mg/kg (above the screening level of 0.07 mg/kg) within the 2.2 feet bgs sample taken from SB-2020-001, the 3 feet bgs sample taken from SB-2020-002, and from the 2.3 feet bgs sample taken at SB-2020-028.

Other than the selenium detection within the 6 feet bgs sample taken from SB-2020-002, metal concentrations were below screening levels within the deeper samples taken from these borings.

Summary: Results from the sampling effort in this area showed limited shallow soil metal and PAH screening level exceedances but did not identify a significant release. As discussed in Section 6.1, the compounds that were measured above screening levels in this area are not retained as COPCs for this area of the Site.

4.8 Quench Tank Vault

During past investigations, PCBs were detected at concentrations ranging from 3.7 to 9.4 milligrams per liter within the oil samples taken from Q1, Q2, the Q1/Q2 combined overflow tank, and the Q1/Q2/Q3 vault (Figure 2A). During the RI, boring SB-2020-004 was completed adjacent to the vault (Figure 16A)

TPH and BTEX: Low levels of TPH-D and TPH-O (below screening levels) were detected within the 2.5 feet bgs and 21 feet bgs samples taken from the boring. TPH-D (4,260 mg/kg) and TPH-O (5,210 mg/kg) were detected at concentrations above their screening level of 2,000 mg/kg within the 8 feet bgs sample. Benzene was detected at 0.000730 J mg/kg (above the screening level of 0.00056 mg/kg) with the 13 feet bgs sample taken from the boring, but was not otherwise detected above the screening level.

PCBs: The 8 feet bgs sample from SB-2020-004, which contained elevated TPH-D and TPH-O, also contained detectable PCBs (0.0631 mg/kg) (comprised of Aroclors 1254 and 1260). PCBs were not detected within other samples taken from the exploration. PCBs have not been detected in groundwater in this area of the Site.

PAHs: cPAHs were detected at low levels within the soil samples taken from the boring with total cPAH TEQ values ranging from 0.0000823 mg/kg to 0.0091 mg/kg (above the screening level of 0.000016 mg/kg). Benzo(a)pyrene was detected at concentrations of up to 0.00677 mg/kg (above the screening level of 0.000016 mg/kg) with the highest concentration measured within the 8 feet bgs sample. Low concentrations of acenaphthene (up to 0.115 mg/kg, above the screening level of 0.028 mg/kg) and naphthalene (up to 0.0578 mg/kg, above the screening level of 0.021 mg/kg) were also detected at this location.

SVOCs: SVOCs (other than PAHs) were not analyzed at this location.

HVOCs: Soil samples taken from the boring did not contain detectable HVOCs.

Metals: Selenium was detected at concentrations above its screening level of 0.78 mg/kg within the samples taken from 13 feet bgs (1.05 J mg/kg) and 17 feet bgs (0.860 J mg/kg) from SB-2020-004. The sample taken from 13 feet bgs also contained vanadium (46.9 mg/kg) at a concentration above its screening level of 45 mg/kg (Table 18). No other metals were detected at concentrations above screening levels.

Summary: The investigation findings are consistent with a small shallow release from the adjacent vault. TPH-D, TPH-O, and PCBs were measured within an 8 feet bgs sample but did not extend to greater depths (groundwater encountered at 8 feet bgs). Low PAHs were also identified.

As mentioned in Section 3.7.5, the Q1/Q2/Q3 vault remains at the Site and is covered with an engineered pit cover.

4.9 Office Building Heating Oil Underground Storage Tank

At the time of the RI, a 600-gallon heating oil UST was located to the west of the main office and north of the main building (Figure 2A). During past inspections, it was not apparent whether the tank was situated within a vault or within soil; however, recent documentation suggests that it is located within a vault (SoundEarth Strategies, 2019). During past inspections, surface soils with apparent sheen, potentially associated with spills during tank fill operations, were observed. Borings completed adjacent to the UST during past Site investigations (DM-B-2 and DM-B-3) did not identify petroleum hydrocarbon impacts associated with the UST (Figure B-2 of Appendix B).

During the RI, boring SB-2021-046 was completed adjacent to the UST. Visual and olfactory indication of contamination was not observed within the boring (Figure 16A).

TPH and BTEX: Low levels of TPH-D (up to 31.5 mg/kg) and TPH-O (up to 210 mg/kg), below screening levels, were measured within the 5.6 and 10.7 feet bgs samples taken from boring SB-2021-046 with higher concentrations measured in the 5.6 feet bgs sample (Table 12). The shallowest sample, taken from 2 feet bgs, did not contain detectable petroleum hydrocarbons.

PCBs: Soil samples taken from boring SB-2021-046 were not analyzed for PCBs.

PAHs: Soil samples taken from boring SB-2021-046 contained several cPAHs at very low concentrations (Table 14). Benzo(a)pyrene was detected within all four samples taken from the boring at concentrations up to 0.00709 mg/kg (above its screening level of 0.000016 mg/kg). Total cPAH TEQ values ranged from 0.00016 to 0.0097 mg/kg (above the screening level of 0.000016 mg/kg) with the highest detections co-located with the petroleum hydrocarbon detections. The two samples with highest cPAH detections also contained naphthalene (up to 0.0211 mg/kg) at concentrations above the screening level of 0.0021 mg/kg (Table 15).

SVOCs: Soil samples taken from boring SB-2021-046 were not analyzed for SVOCs other than PAHs.

VOCs: Soil samples taken from boring SB-2021-046 were not analyzed for HVOCs.

Metals: As with other locations on the Site, soil samples taken from SB-2021-046 contained selenium and vanadium (to a lesser extent) at concentrations above screening levels (Table 18). No other metals were detected at concentrations above screening levels.

Summary: Boring SB-2021-046 is in close proximity to the northern boundary of the Area 1 LNAPL plume. LIF boring A1-07, with a low LNAPL response at 9 feet bgs, is located just southeast of the boring. LIF boring A1-08, with no observed LNAPL, is located just north of the boring. Based on the depths at which the detections occurred within SB-2021-046, a minor release may have occurred from the UST; however, concentrations are below screening levels.

The office building heating oil UST was removed by Star Forge during the facility demolition process. According to the interim action completion report, the tank "was empty at the time of removal, and there was no visual or olfactory evidence of contamination in soil adjacent to or beneath" the UST (DH Environmental, Inc., 2024b) (Appendix I).

4.10 Shipping Area

The Shipping Area was located in the northeast corner of the main building (Figure 2A). Historically, metal products were cleaned, tested, and stored within this area. Products were reportedly cleaned by applying solvent to clean rags that were used to wipe the metal surface. Solvents identified as being used in the area include a dry-cleaning solvent (i.e., P-D-680 [mineral spirits product]) and fingerprint remover/neutralizer (Tectyl 833 [petroleum-based product] or equivalent). Reportedly, Solvent Gold was most recently used for this purpose. Solvents were reportedly stored within fire-safe lockers in the Shipping Area.

During the RI, monitoring well MW-58 was installed within the Shipping Area (Figure 16A).

TPH and BTEX: Soil samples taken from the MW-58 boring contained very low (below screening levels) TPH-D and TPH-O detections within a shallow (1.5 feet bgs) sample (Table 12). The sample did not contain detectable BTEX. Petroleum hydrocarbons and BTEX were not detected within a sample taken from 5.5 feet bgs. A sample taken from 8.4 feet bgs (near the water table) contained low TPH-D, TPH-O, and BTEX. Benzene (0.921 JH* mg/kg), toluene (5.01 mg/kg), ethylbenzene (4.51 mg/kg), and xylenes (12.2 mg/kg) detections exceeded their respective screening levels of 0.00056 mg/kg, 0.044 mg/kg, 0.010 mg/kg, and 0.055 mg/kg. The sample was not analyzed for TPH-G.

Groundwater samples collected from MW-58 contained low concentrations of TPH-D (up to 276 µg/L), below screening levels (Table 23). TPH-O was not detected within the samples. Samples collected from the well contained detectable BTEX, including elevated concentrations (above screening levels) of benzene (as high as 188 JH* µg/L) and ethylbenzene (as high as 70.2 µg/L), above their respective screening levels of 1.6 µg/L and 21 µg/L. Similar levels of benzene and ethylbenzene were not detected during the RI within groundwater at other locations on the Site.

PCBs: Soil and groundwater samples taken from MW-58 were not analyzed for PCBs.

PAHs: Soil and groundwater samples taken from MW-58 were analyzed for PAHs (Tables 14, 15, 25, and 26). Low concentrations of cPAHs were detected within the soil samples with benzo(a)pyrene at concentrations up to 0.00225 mg/kg (above the screening level of 0.000016 mg/kg) and total cPAH TEQ values of up to 0.00303 mg/kg (above the screening level of 0.000016 mg/kg). Naphthalene was detected at concentrations up to 0.524 E mg/kg within soil samples taken from MW-58 (above the screening level of 0.0021 mg/kg). The highest detection was measured in the soil sample taken from 8.4 feet bgs, which also contained 2-methylnaphthalene at 0.361 mg/kg (above the screening level of 0.039 mg/kg).

Groundwater samples taken from MW-58 were analyzed for PAHs. One of the four collected groundwater samples contained detectable cPAHs at low concentrations, including benzo(a)anthracene (0.00100 J µg/L) and benzo(b)fluoranthene (0.00100 J µg/L) at concentrations above their respective screening levels of 0.00016 µg/L and 0.0016 µg/L. The total calculated cPAH TEQ value (0.00147 µg/L) is above the screening level of 0.000016 µg/L. Other PAH detections at this location were below screening levels except for naphthalene, which was detected above the screening level of 1.4 µg/L within two samples (up to 9.70 D µg/L).

SVOCs: Soil and groundwater samples taken from MW-58 were not analyzed for SVOCs (other than PAHs).

VOCs: Soil and groundwater samples taken at MW-58 did not contain detectable concentrations of the analyzed HVOCs (Tables 17 and 29).

Metals: As with other locations on the Site, soil samples taken from MW-58 contained selenium (concentrations up to 1.20 J mg/kg) above the screening level of 0.78 mg/kg (Table 18). Other metal soil exceedances were minor and included a single arsenic exceedance. Arsenic was detected at 8.10 mg/kg (above the 7.3 mg/kg screening level) within the 8.4 feet bgs sample.

Groundwater samples taken from MW-58 contained total and dissolved arsenic (up to 68.2 and 26.3 µg/L, respectively) and total and dissolved iron (up to 92,700 D and 56,600 D µg/L, respectively) above their respective screening levels of 8 µg/L and 32,000 µg/L; these exceedances may be attributable to the nearby LNAPL plume and TPH-degradation-related changes to the pH and Eh. Other metal detections of note included total and dissolved nickel detections (18.0 and 18.4 µg/L, respectively) within one sample at concentrations above the screening level of 8.2 µg/L.

Summary: Soil sampling at MW-58 did not identify a significant release to soil. Impacted soils were identified at the water table; however, these impacts appear to be associated with groundwater contamination at this location. Groundwater sampling from the well confirms the presence of elevated benzene and ethylbenzene. The source of the contamination is unclear. Benzene and ethylbenzene have not been detected in nearby MW-9 (located to the east-southeast) (Figure 16A). In 1991, elevated benzene (up to 1,200 µg/L) and ethylbenzene (up to 1,900 µg/L) concentrations were detected in samples taken from MW-4 (adjacent to the northernmost Area 3 gasoline UST) (Figure 16A) prior to remediation activities. However, it is unlikely that this benzene contamination would reach MW-58 without being detected at MW-9. For this reason, it appears that the contamination may be associated with a release in the Shipping Area. The extent of the contamination is not defined. As discussed

in Section 2.2.4, the overall hydraulic gradient (generally west to southwest towards the LDW) is used to interpret flow direction rather than localized apparent flow directions. The adjacent LNAPL plume makes sampling for VOCs in groundwater immediately to the west of MW-58 impracticable. However, samples from beyond the plume to the west did not contain benzene at concentrations above screening levels. If localized apparent flow direction is considered, groundwater would be expected to flow towards the northeast from MW-58 (due to the mounding observed within Area 1) and would then flow westward towards the LDW. Samples taken from wells located along this flow path (MW-23, MW-49, and MW-59) also have not contained benzene at concentrations above screening levels.

4.11 "B" Zone Petroleum Impacts

Most of the groundwater monitoring wells at the Site are screened within the "A" zone with screen intervals limited primarily to the upper 20 to 25 feet bgs. A subset of the Site monitoring wells are screened at greater depths, within the "B" Zone (Table 1). These wells (locations shown in Figure 16A) include:

- MW-41 (screened from 30 to 40 feet bgs), located adjacent to and west of the former 5,000-ton press vault (which extends to a depth of 35 feet bgs).
- MW-43 (screened from 30 to 40 feet bgs) and MW-44 (screened from 50 to 60 feet bgs), respectively, located along the western end of the Site near the shoreline. These wells are located approximately due west of MW-41.
- MW-45 (screened from 30 to 40 feet bgs), located outside of the former main building, northwest of MW-41.
- MW-64 (screened from 45 to 60 feet bgs), located approximately 90 feet west-southwest of MW-41.
- MW-70, screened from 45 to 60 feet bgs, located in the northwest corner of the Site.

As noted previously, dissolved-phase petroleum impacts, specifically TPH-D, have been measured within some of the "B" zone wells. During the four RI groundwater sampling events, samples taken from MW-41 contained TPH-D at concentrations ranging from 298 µg/L to 909 µg/L, with two detections above the 500 µg/L screening level (Table 23). MW-45, located to the northwest of MW-41, contained TPH-D at concentrations ranging from 411 to 581 µg/L with three detections above the screening level. Samples taken from MW-64, located to the west-southwest of MW-41, contained TPH-D at concentrations ranging from 141 to 977 µg/L, with one detection above the screening level. Monitoring well MW-43, located west of MW-41 and adjacent to the shoreline, contained TPH-D at low concentrations ranging from 102 J* to 169 µg/L, with all detections below the screening level. MW-44, located adjacent to MW-43 but screened at a greater depth, did not contain detectable petroleum hydrocarbons.

The TPH-D detections within "B" zone wells may indicate that limited downward migration of contaminated groundwater has occurred. Alternatively, because diesel is less dense than water and does not typically "sink" within the subsurface, dissolved-phase impacts within the "B" zone may be attributable to a different source than the "A" zone impacts. Two deep vaults were present within the former main building (Figure 2A). The 5,000-ton press vault extended to a depth of approximately 35 feet bgs. The Quench Tank 1/2/3 vault (which housed three quench tanks and a vertical furnace) extended to a depth of approximately 30 feet bgs. Both former deep vaults were considered potential sources to the deeper groundwater zone. Though dissolved-phase TPH-D impacts were noted within "B" zone wells at the Site, the impacts appear to decrease from east to west across the Site to below screening levels at the western property boundary. Because the facility operations have ceased, these deep vaults are unlikely to constitute an ongoing source of contamination. The 5,000-ton press vault was filled in 2023 as part of the Star Forge demolition and facility closure. As mentioned in Section 3.7.5, the Q1/Q2/Q3 vault remains at the Site and is covered with an engineered pit cover.

Soil samples taken from borings SB-2020-004 (Figure 16A) during the RI and from previous borings for monitoring wells MW-41 and MW-45 (sample depths up to 40 feet bgs) did not contain petroleum hydrocarbons at concentrations above screening levels (shallower samples from SB-2020-004 did contain elevated levels of TPH-D and TPH-O, discussed in Section 4.8).

MW-70 is in the northwestern corner of the Site. TPH-D was detected within one sample taken from the well at 1,080 µg/L. Given its location, and other impacts within the well (TCE and vinyl chloride), the TPH-D detected within groundwater at this location is likely unrelated to the impacts measured within the other "B" zone wells and may be related to the TPH-D impacts identified on the adjacent Boeing property 2-66 Area.

4.12 Previously Unpaved Locations in the Melt, Forge, and Heat Treat Shops

The surface of the floor within the Melt, Forge, and Heat Treat Shop area was historically covered with a layer of dust presumed to be a "mixture of dust, fine particulates, soil 'track-in' and exposed soil that accumulated throughout the facility over many years of operation" (DH Environmental, Inc., 2020). The dust is not believed to be associated with any single facility operation. Star Forge removed much of the dust (approximately 2,500,000 lbs) in 2019 and 2020, but some remained.

Because the remaining dust would need to be managed during building demolition activities, Star Forge's consultant, DH Environmental, completed a statistical evaluation of

the dust in 2020 to designate the material. Their effort included the collection of 22 dust samples and analysis for VOCs, PCBs, metals (including RCRA metals and copper, nickel, and zinc), and Toxicity Characteristic Leaching Procedure (TCLP) metals (RCRA metals). Findings from the evaluation included:

- Mean TCLP RCRA metal concentrations were below toxicity thresholds.
- The mean PCB concentration was 0.83 mg/kg.
- Low levels of VOCs, below TCLP volatiles characteristic levels, were detected.
- Washington State Toxic Criteria book designation calculations resulted in equivalent concentrations (ECs) between 0.001% and 1.0%, which would lead to a book designation of Washington State Toxic Criteria WT02. Fish bioassays were completed on the two samples with highest ECs. The fish bioassay analyses resulted in zero fish mortality and the material was designated as Non-Dangerous Solid Waste.

After equipment was removed following facility closure, some areas of soil without overlying pavement were exposed. Because dust was present within these areas, Ecology requested that limited sampling be completed within the unpaved areas.

The sampling effort (summarized in Section 3.2.3.7 and detailed in Appendix C) included eight probes (HA-2020-001 through HA-2020-008) in the unpaved locations (Figure 16A) with collection of two to three samples from each probe. When three samples were collected, they included collection of the loose surface dust, one from the upper soil (below the loose material), and one from approximately six inches below the upper soil sample. When loose surface dust was not present, only the upper soil and lower soil samples were taken. Upon collection, the upper soil samples were analyzed for metals (including arsenic, barium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, vanadium, zinc, and mercury); select samples were also analyzed for PCBs.

Follow-up analyses were performed on the loose dust and lower soil samples, based on the results from the first analysis.

Metals: Results are summarized in Tables 19A and 19B. As shown in Table 19A, metals were detected at elevated concentrations at all of the sample locations. All 13 analyzed metals were detected above screening levels within one or more samples with barium, cadmium, cobalt, and mercury being the least frequently detected at elevated levels. Chromium (as high as 6,620 mg/kg), copper (as high as 1,240 mg/kg), and nickel (as high as 4,460 mg/kg) were detected at the most elevated concentrations and with the greatest frequency. Lead (as high as 585 J* mg/kg) and zinc (as high as 1,550 mg/kg) were detected with less frequency but at similarly elevated levels.

Where loose dust was available for sampling, detections of metals within the loose dust samples were, on average, higher than concentrations within the upper soil samples. This trend was most apparent for the copper, lead, and nickel analyses. With some exceptions, the concentrations of metals within the lower soil samples were notably lower than the concentrations measured within the upper soil samples, demonstrating a clear reduction with depth.

Several borings were completed within the area (discussed further in Section 4.13), including SB-2020-004, SB-2021-006, SB-2021-010, SB-2021-038, and SB-2021-040 (Figure 16A). Samples from these borings were analyzed for metals. With one exception (SB-2021-006), elevated metals were not detected within samples taken from these borings. It should be noted that selenium, and vanadium were detected within some of the samples at concentrations above screening levels; however, these metals were detected above screening levels within many samples at the Site and are not believed to be indicative of metals impact.

The shallowest sample (1.5 feet bgs) taken from boring SB-2021-006 contained elevated concentrations of several metals, including arsenic (20 mg/kg), copper (56.9 mg/kg), lead (168 mg/kg), nickel (52.8 mg/kg), and zinc (139 mg/kg). Deeper samples taken from the boring did not contain elevated metals. This boring was completed at a concrete-paved location (0.6 foot of concrete at the surface). A metal fragment was observed at 1 foot bgs within the boring, suggesting that the elevated metals measured within this boring are likely unrelated to the nearby unpaved areas.

PCBs: As shown in Table 19B, samples taken from HA-2020-001, HA-2020-002, HA-2020-003, and HA-2020-005 (locations that are closest to facility transformers) were also analyzed for PCBs. Very low concentrations (though above the screening level of 0.0000005 mg/kg) of PCBs were detected within all of the analyzed samples without an apparent trend with depth. The detections ranged from 0.011 J to 0.1088 D mg/kg. The detections were comprised of Aroclors 1248, 1254, and 1260.

Summary: The results from this sampling effort suggest that shallow localized areas with metals impact are present within the unpaved areas of the Melt, Forge, and Heat Treat Shops. The impacts appear to decline quickly with depth. Nearby borings did not demonstrate metals impact at greater depths. Because the dust was designated as Non-Dangerous Solid Waste, additional removal was not completed during the demolition process. The unpaved areas were covered with geomembrane liners to prevent stormwater infiltration, and only dust that adhered to surfaces or was swept up during general stormwater maintenance was removed from the Site. Following demolition work, clean fill was imported across these areas to achieve proper drainage, and these areas were paved (DH Environmental, Inc., 2024b).

4.13 Former Melt Shop

The Former Melt Shop (Figure 2A) was used to melt scrap metals within large furnaces for the purposes of forming ingots. Several vaults were located within the area (labeled within Figure A-2 of Appendix A). Two hydraulic oil tanks were used for the arc furnace and were situated within the arc furnace vault. During the September 2018 Site walk-through, the vaults appeared to be in good condition; however, dust, metal, and debris were present throughout the area and prevented viewing all surfaces. Star Forge completed vault cleaning operations in 2019. Unpaved floors were present within some areas of the Former Melt Shop. During the 2019/2020 observations, groundwater seeps were observed within the arc furnace vault and the vacuum degassing vaults, and cracks were noted in some vaults. According to employees, infiltrated groundwater was pumped out of the deepest point of the arc furnace vault (referred to as the cable vaults) using trash pumps or a vacuum truck, and a sump pump was operated within the vacuum-degassing vault to remove infiltrated groundwater.

During the facility demolition process, a previously unknown heating oil UST was discovered within an area used for office space along the northern end of the former Melt Shop (Exhibit 4-7). The tank was reportedly full, but "appeared to be in good condition at the time of removal and no breaches, holes or piercings were observed. No visual or olfactory evidence of contamination was observed in the soil adjacent to or beneath" the UST (DH Environmental, Inc., 2024b) (Appendix I).

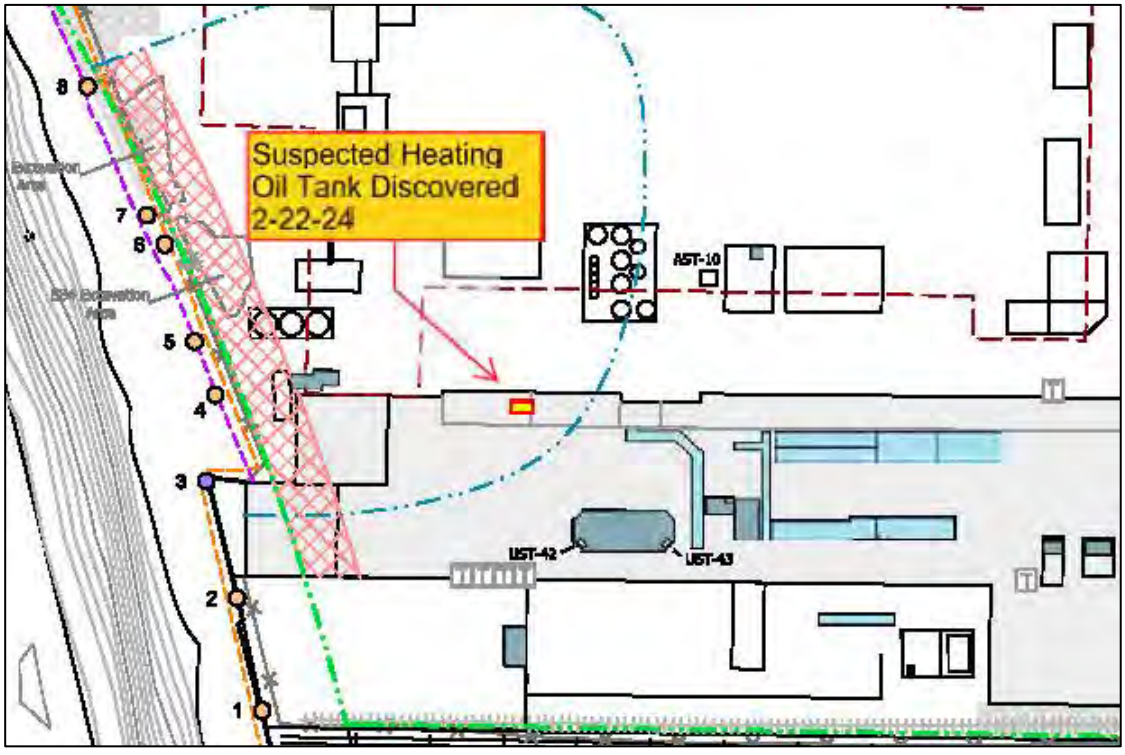


Exhibit 4-7: Heating Oil UST Within the Former Melt Shop (DH Environmental, Inc., 2024b)

Past investigations did not include explorations within the Former Melt Shop; however, several monitoring wells are located outside of and surrounding the area. During the RI, borings SB-2021-040 and SB-2021-010 were completed inside the Former Melt Shop and shallow samples (HA-20202-001, HA-2020-002, and HA-2020-003) were taken from unpaved areas (discussed in Section 4.12) (Figure 16A). Groundwater samples were taken from nearby wells MW-39 (southwest of area), MW-38 (south of the area), MW-42/MW-43/MW-44 (west of the area), and MW-6 (northwest of the area). Monitoring wells MW-42, MW-43, and MW-44 area a set of wells with varying screen intervals. MW-42 is screened within the "A" zone from 5 to 20 feet bgs; MW-43 and MW-44 are screened within the "B" zone from depths of 30 to 40 and 50 to 60 feet bgs, respectively.

TPH and BTEX: Soil samples taken from borings SB-2021-010 and SB-2021-040 contained very low concentrations (below screening levels) of TPH-D and/or TPH-O (Table 12). Groundwater samples (Table 23) taken from MW-38, MW-39, MW-6, MW-42, MW-43, and MW-44 were analyzed for TPH-D, TPH-O, and BTEX. None of the groundwater samples contained concentrations above screening levels. Occasional low detections of TPH-D or TPH-O were measured within samples taken from MW-6 and MW-38. All four samples taken from MW-43 ("B" zone) contained detectable concentrations of TPH-D and benzene; these detections were well below screening levels.

PCBs: Soil samples taken from borings SB-2021-010 and SB-2021-040 were not analyzed for PCBs (Table 13). Shallow samples taken from HA-2020-001, HA-2020-002, and HA-2020-003 (associated with loose dust and immediately underlying soil) were analyzed for PCBs (discussed previously in Section 4.12). As shown in Table 19B, samples taken from HA-2020-001, HA-2020-002, and HA-2020-003 contained very low concentrations (though above screening levels) of PCBs without an apparent trend with depth. Total PCB concentrations ranged from 0.011 J to 0.1088 D mg/kg. Groundwater samples taken from MW-6, MW-39, MW-42, MW-43, and MW-44 were analyzed for PCBs (Table 24). Two of the four samples taken from MW-39 contained low PCB detections (potentially attributable to particulates). PCBs were not detected within samples taken from MW-6, MW-42, MW-43, and MW-44.

PAHs: Soil samples taken from SB-2021-010 and SB-2021-040 contained very low concentrations of cPAHs with total cPAH TEQ values of up to 0.00682 mg/kg) (Table 14). Benzo(a)pyrene was detected within soil at SB-2021-010 and SB-2021-040 at concentrations of up to 0.00159 mg/kg and 0.005008 mg/kg, respectively, above the screening level of 0.000016 mg/kg. Two of the samples taken from SB-2020-040 also contained naphthalene (at

up to 0.0285 mg/kg) at concentrations above its screening level of 0.0021 mg/kg) (Table 15). Groundwater samples taken from monitoring wells MW-6, MW-38, MW-39, MW-42, MW-43, and MW-44 during the RI were not analyzed for PAHs; however, past samples taken from these wells did not contain detectable PAHs.

SVOCs: Samples taken from this area during the RI were not analyzed for SVOCs (other than PAHs). Groundwater samples taken from wells MW-6, MW-38, MW-39, MW-42, MW-43, and MW-44 during prior events did not contain detectable SVOCs.

VOCs: Soil samples taken from this area were not analyzed for VOCs. Groundwater samples taken from MW-6, MW-39, MW-42, MW-43, and MW-44 were analyzed for HVOCs (Table 29). HVOCs were not detected with the exception of vinyl chloride, which was measured above its screening level (0.18 µg/L) within all four samples taken from "B" zone well MW-43 (up to 0.440 µg/L).

Metals: Elevated metals were noted within the shallow samples taken from unpaved locations in the Former Melt Shop (discussed previously in Section 4.12) (Table 19A). As with other locations on the Site, soil samples taken from borings SB-2021-010 and SB-2021-040 contained selenium (up to 1.19 J mg/kg) at concentrations above the screening level of 0.78 mg/kg (Table 18). Other screening level exceedances were limited to a single mercury exceedance (0.338 mg/kg) measured within the 10.4 feet bgs sample taken from SB-2021-040 (above the screening level of 0.07 mg/kg). Groundwater metal screening level exceedances included (Table 30):

- Samples taken from MW-6 contained total and dissolved arsenic at concentrations of up to 44.7 µg/L and 28.1 µg/L, respectively, above the screening level of 8 µg/L.
- One sample taken from MW-39 contained total nickel at a concentration of 12.4 µg/L, above the screening levels of 8.2 µg/L. Dissolved nickel was not detected above the screening level.
- Three samples taken from MW-39 contained hexavalent chromium at concentrations up to 16 D mg/kg, above the screening level of 0.36 mg/kg.

Summary: Soil and groundwater sampling completed within and around the Former Melt Shop did not identify a release from this area. Elevated metals and low PCB detections were measured within dust and very shallow underlying soils within the area; however, the metal concentrations were shown to reduce quickly with depth and were not apparent within soil samples taken from borings SB-2021-010 and SB-2021-040. A previously unknown heating oil UST was discovered and removed from this area during facility demolition. A release was not identified in association with the UST.

4.14 Former Metals Storage Area

As shown in Figure 2A, the Former Metals Storage Area is in the southwestern portion of the Site. It includes exterior areas to the south and southwest of the Melt Shop portion of the main building. Twenty-four scrap storage bins were located within the Metals Storage Area; the bins were constructed in the early 1940s and used to store scrap and debris. The bins consisted of large concrete partitions that extended approximately 10 to 15 feet above grade and to approximately 8 feet below grade. The 24 bins reportedly had concrete bottoms. Between 2008 and 2009, the bins were decommissioned by removing the metal contents, removing the concrete structure to just below grade, filling with crushed rock, and paving.

Following closure of the scrap metal storage bins, scrap was stored within a paved concrete block containment area. According to a 2009 Ecology National Pollution Discharge Elimination System permit compliance inspection, the material within this area had "enough petroleum in it to warrant the use of absorbent pads" (Ecology, 2009). During an inspection completed in 2014, it was noted that a collection trench was present in this area to direct the fluids (described as cutting fluids) to a vault that was vacuumed out for disposal by a subcontractor (Ecology, 2014b). The exact location of this feature is unknown; as such, it is not presented in figures.

During demolition and facility closure activities in 2023, Star Forge discovered a vault which they refer to as the Powerhouse Vault within the former Metals Storage Area (outside to the south of the main building). It is possible that the Powerhouse Vault is the same vault that was noted during the Ecology 2014 inspection.

Until 2024, the western end of the former Metals Storage Area was unpaved. Prior to 2013, slag, chips, and swarf, were stored on the ground surface in this unpaved area. In 2013, the stored material was removed, the area was graded, and clean gravel was applied. In 2024, Star Forge paved the area as part of the demolition and facility closure activities.

A sheet pile/concrete panel bulkhead bounds the property along the southwestern shoreline (i.e., adjacent to the Former Metals Storage Area). Fill was historically placed uplands of the bulkhead.

Past sampling activities in the area have been limited (Figure B-6 of Appendix B). Sampling identified shallow metals contamination (surface samples), PCBs in soil samples taken from borings completed behind the bulkhead, and limited metals contamination.

4.14.1 Former Metals Storage Area Soil and Groundwater Sampling

During the RI, three borings were completed (SB-2021-011, SB-2021-012, and SB-2021-068) and two monitoring wells (MW-67 and MW-68) were installed to evaluate the Former Metals Storage Area (Figure 16A). The explorations were located:

- SB-2021-012 was completed at the northeastern end of the Former Metals Storage Area, near the main building exterior wall. No indication of contamination was observed within the boring that was extended to 15 feet bgs.
- Monitoring well MW-67 was completed in an unpaved location immediately southwest of the former metal storage bins, near the southern property boundary.
- SB-2021-011, SB-2021-068, and MW-68 were completed within the storage area at the west end of the Metals Storage Area. SB-2021-068 was intended to be MW-68, but refusal was encountered at 6.3 feet bgs and the exploration was renamed to SB-2021-068. MW-68 was successfully completed just southwest of the original boring. Metal shavings were observed from surface to the bottom of the exploration at SB-2021-068. Slag, metal fragments, and yellow brick fragments were observed in the upper 4 feet of the SB-2021-011 boring.

TPH and BTEX: Soil samples taken from boring SB-2021-012 (northeast end of the area) contained very low concentrations of TPH-D (up to 29.7 mg/kg) and TPH-O (up to 198 mg/kg), with a maximum total TPH-D and TPH-O concentration of 227.7 mg/kg, below the screening level of 2,000 mg/kg (Table 12).

A shallow soil sample (0.5 foot bgs) taken from the boring for MW-67 (southwest of former metal storage bins) contained TPH-D at 336 mg/kg and TPH-O at 1,730 mg/kg, with a total TPH-D and TPH-O concentration of 2,066 mg/kg, just above the screening level of 2,000 mg/kg. Petroleum hydrocarbons were not detected above screening levels within deeper samples taken from the boring. Groundwater samples taken from MW-67 contained total TPH-D and TPH-O at concentrations ranging from not detected to 559 µg/L (Table 23), with only one sample exceeding the total TPH-D and TPH-O screening level of 500 µg/L. BTEX constituents were not detected within groundwater samples taken from MW-67.

Soil samples taken from SB-2021-011, SB-2021-068, and the boring for MW-68 (located in the storage area) contained TPH-D and TPH-O. At SB-2021-011, total TPH-D and TPH-O was detected at concentrations ranging from 42.24 mg/kg to 1,675 D mg/kg, below the 2,000 mg/kg screening level. The highest detection at SB-2021-011 occurred within the 1 foot bgs sample; concentrations reduced with depth. Both samples taken from boring SB-2021-068 (from 1 and 5.5 feet bgs) contained TPH-D and TPH-O, with total TPH-D and TPH-O concentrations of 8,480 mg/kg and 4,090 mg/kg, respectively, above the screening level of 2,000 mg/kg. The highest detection was measured within the shallower 1 foot bgs sample

that also contained benzene at 0.000810 J (just above the screening level of 0.00056 mg/kg). Samples taken from 8.5 feet bgs from the boring for MW-68 (immediately adjacent to SB-2021-068) contained detectable but low concentrations of TPH-D and TPH-O (total TPH-D and TPH-O of 57.4 mg/kg, below the screening level of 2,000 mg/kg) and benzene (0.000950 J mg/kg, just above the screening level). Groundwater samples taken from MW-68 contained TPH-D and TPH-O, with total TPH-D and TPH-O concentrations ranging from 611 µg/L to 1,628 µg/L, above the screening level of 500 µg/L. BTEX constituents were not detected above screening levels within groundwater samples taken from MW-68.

PCBs: PCBs were detected at 1.4 mg/kg (above the screening level of 0.00000055 mg/kg) within the shallowest (1 foot bgs) sample taken from SB-2021-068 (Table 13). The next shallowest sample (5.5 feet bgs) from SB-2021-068, and the sample taken from the boring for MW-68 (8.5 feet bgs) did not contain detectable PCBs.

Groundwater samples taken from MW-67 and MW-68 were analyzed for PCBs (Table 24). Low concentrations of PCBs (0.00300 J µg/L, above the screening level of 0.000007 µg/L) were detected within a single groundwater sample taken from MW-68. Samples taken from MW-67 did not contain PCBs.

Samples taken from MW-39, located near the bulkhead to the northwest of MW-68, contained PCBs on two occasions (up to 0.00400 J µg/L). MW-39 is discussed further in Section 4.18.

PAHs: Soil samples taken from SB-2021-012 (northeast end of area) contained low concentrations of several cPAHs, with total cPAH TEQ values of up to 0.00598 mg/kg (Table 14), above the screening level of 0.000016 mg/kg. Benzo(a)pyrene was detected within the samples at concentrations up to 0.00435 mg/kg, above the screening level of 0.000016 mg/kg. The highest detections occurred within the 3.4 feet bgs sample, which also contained naphthalene at 0.00512 mg/kg (just above the screening level of 0.0021 mg/kg) (Table 15).

Soil samples taken from 0.5, 5.5, and 9 feet bgs within the boring for MW-67 (southwest of former metals storage bins) contained several PAHs at low concentrations, with total cPAH TEQ values of up to 0.0413 mg/kg, above the screening level of 0.000016 mg/kg. Benzo(a)pyrene was detected within the 0.5 and 5.5 feet bgs sample at concentrations of up to 0.0309 mg/kg, above the screening level of 0.000016 mg/kg. Naphthalene was detected at concentrations of up to 0.0121 mg/kg (above the screening level of 0.0021 mg/kg) within the 0.5, 5.5, and 9 feet bgs samples, and dibenzofuran was detected at 0.0345 J mg/kg (above the screening level of 0.029 mg/kg) within the 5.5 feet bgs sample. Other PAHs were not detected at concentrations above screening levels. Deeper samples from the boring (taken

from 16 and 20.5 feet bgs) did not contain detectable PAHs. Groundwater samples taken from MW-67 did not contain detectable cPAHs or other PAHs at concentrations above screening levels (Tables 25 and 26).

Soil samples taken from SB-2021-011, SB-2021-068, and the boring for MW-68 (unpaved storage area) were analyzed for PAHs:

- Samples taken from SB-2021-011 contained low concentrations of several PAHs, including total cPAH TEQ values of up to 0.0880 mg/kg (above the screening level of 0.000016 mg/kg), benzo(a)pyrene up to 0.0577 D mg/kg (above the screening level of 0.000016 mg/kg), 2-methylnaphthalene up to 0.0457 D mg/kg (above the screening level of 0.039 mg/kg), fluoranthene up to 0.211 mg/kg (above the screening level of 0.029 mg/kg), naphthalene of up to 0.0380 D mg/kg (above the screening level of 0.0021 mg/kg), and pyrene up to 0.201 D mg/kg (above the screening level of 0.14 mg/kg).
- Soil samples taken from SB-2021-068 did not contain detectable cPAHs, but anthracene was detected at 0.0614 J mg/kg within the 5.5 feet bgs sample taken from the boring (just above the screening level of 0.051 mg/kg).
- Soil samples taken from the boring for MW-68 contained low concentrations of cPAHs. Benzo(a)pyrene was detected within the 15.5 feet bgs sample at 0.000480 J mg/kg (above the screening level of 0.000016 mg/kg, but was not detected within the 8.5 feet bgs sample. Total cPAH TEQ values ranged from 0.0007148 mg/kg up to 0.00467 mg/kg, above the screening level of 0.000016 mg/kg). No other PAHs were detected above screening levels within soil samples taken from MW-68.

Groundwater samples taken from MW-68 did not contain detectable cPAHs or other PAHs at concentrations above screening levels.

SVOCs: Soil samples taken from SB-2021-012 (northeast end of area) were not analyzed for SVOCs other than PAHs.

All but the shallowest soil samples taken from the boring for MW-67 (southwest of former metals storage bins), contained BEHP at low concentrations (up to 0.0586 mg/kg), above the screening level of 0.000022 mg/kg (Table 16). One soil sample taken from the boring contained pentachlorophenol at 0.0114 J mg/kg, above the screening level of 0.0000018 mg/kg. One groundwater sample taken from MW-67 contained BEHP at 0.200 J µg/L, above the screening level of 0.046 µg/L (Table 27).

Soil samples taken from SB-2021-068 and the boring for MW-68 (unpaved storage area) were analyzed for SVOCs. screening level exceedances included:

- The 5.5 feet bgs sample from SB-2021-068 and the 8.5 feet bgs sample from MW-68 contained 1,4-dichlorobenzene at concentrations of 0.186 J mg/kg and 0.0352 mg/kg,

respectively (above the screening level of 0.0081 mg/kg). The same samples contained 2-chlorophenol at concentrations of 0.237 mg/kg and 0.0450 mg/kg, respectively (above the screening level of 0.011 mg/kg). Isophorone was detected at 0.164 J mg/kg (above screening level of 0.0387 mg/kg) within the 5.5 feet bgs sample from SB-2021-068.

- The shallowest sample from SB-2021-068 (1 foot bgs) contained BEHP at 0.413 J mg/kg (above the screening level of 0.000022 mg/kg).
- The 1 and 5.5 feet bgs samples from SB-2021-068 and the 8.5 feet bgs sample from MW-68 contained pentachlorophenol at concentrations up to 0.195 J mg/kg (above the screening level of 0.0000018 mg/kg). Phenol was also detected above its screening level of 0.048 mg/kg within the samples taken from SB-2021-068 (concentrations up to 0.183 J mg/kg).

Two groundwater samples taken from MW-68 contained BEHP at 0.200 J µg/L, above the screening level of 0.046 µg/L. Other SVOCs were not detected above screening levels within groundwater samples taken from MW-68 (Table 28).

VOCs: Soil samples taken from SB-2021-068 and from the borings for MW-67 and MW-68 were analyzed for HVOCs (Table 17). HVOCs were not detected within the samples taken from MW-67. Very low concentrations of TCE were detected (above the screening level of 0.000266 mg/kg) within the 5.5 feet bgs sample taken from SB-2021-068 (0.00305 mg/kg) and within the 8.5 feet bgs sample taken from MW-68 (0.0142 mg/kg).

Very low concentrations of TCE were measured within groundwater samples taken from MW-67 (up to 0.220 µg/L) and MW-68 (up to 0.230 µg/L), but at concentrations below the screening level of 0.7 µg/L (Table 29). Vinyl chloride was detected above its screening level of 0.18 µg/L within samples taken from MW-68 (up to 0.620 µg/L).

Metals: As with other locations on the Site, soil samples taken from this area contained selenium and vanadium at concentrations above screening levels (Table 18). Additional screening level exceedances included:

- The shallowest soil sample (2 feet bgs) taken from SB-2021-012 (northeast end of the area) contained mercury above the screening level (at 0.111 mg/kg), but the deeper samples contained only low concentrations below the screening level of 0.07 mg/kg.
- Slight screening level exceedances of arsenic (one sample), copper (one sample), and mercury (two samples) were measured within soil samples taken from the boring for MW-67 (southwest of former metals storage bins). Groundwater samples taken from MW-67 contained low concentrations of various metals; one groundwater sample collected from the well contained total (4.03 µg/L) and dissolved (3.33 µg/L) copper at concentrations just above the screening level of 3.1 µg/L (Table 30).

- Soils samples taken from SB-2021-011, SB-2021-068, and MW-68 (unpaved storage area) contained elevated concentrations of several metals, including arsenic, barium, cadmium, chromium, copper, lead, nickel, selenium, vanadium, and zinc. Selenium, and vanadium are detected routinely at concentrations above screening levels at the Site; however, the detections within these borings were higher than at other Site locations. The most highly elevated metals included chromium (as high as 2,620 D mg/kg) and zinc (as high as 1,260 D mg/kg). Hexavalent chromium was not detected within the samples taken from SB-2021-068. Metal concentrations quickly reduced with depth such that the deepest samples taken from SB-2021-011 and MW-68 contained only selenium , and vanadium at concentrations above screening levels. Groundwater samples taken from MW-68 contained total and dissolved arsenic (up to 14.1 and 13.2 µg/L, respectively), total and dissolved copper (up to 9.16 and 6.74 µg/L, respectively), and total and dissolved manganese (up to 2,500 B,D and 2,420 D µg/L) above their respective screening levels of 8, 3.1, and 2,000 µg/L.

4.14.2 Star Forge Powerhouse Vault Discovery

As reported in their interim action completion report, Star Forge discovered a vault (referred to as the Powerhouse Vault) during facility closure activities in 2023 within the Former Metals Storage Area. The vault was outside to the south of the main building below "an above ground concrete structure, which was sitting on a steel plate, supported by a steel I-beam" (DH Environmental, Inc., 2024b). As shown in Exhibit 4-8, the vault was rectangular in shape from east to west with a southern extension near the eastern end of the vault. The vault featured a concrete base and concrete sidewalls except at the southern end of the southern extension.

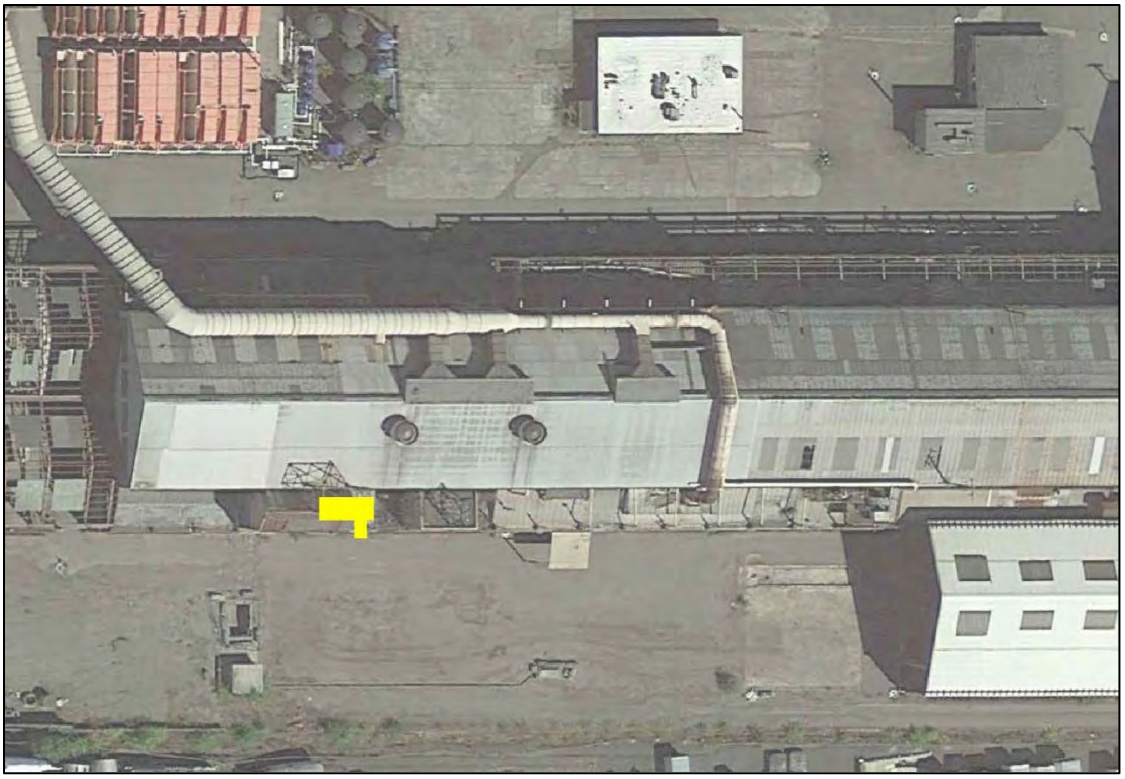


Exhibit 4-8: Powerhouse Vault – Shown in Yellow (DH Environmental, Inc., 2024b)

Soil and water were present within the vault. Samples were collected from soils within the vault to support waste characterization. The sample contained elevated PCBs (50 mg/kg). The soil and water within the vault were removed and disposed of off-site. A soil sample was collected from 2 feet bgs from the southern sidewall where a concrete wall was not present. The sample contained PCBs at a concentration of 0.14 mg/kg, above the screening level of 0.0000005 mg/kg.

The source of PCBs within this vault is not known.

4.14.3 Summary of Findings

Finding from investigations completed in the Former Metals Storage Area identified the following:

- Samples taken from the northeast end of the Former Metals Storage area from SB-2021-012 did not identify significant impacts in this area. The samples contained low concentrations of TPH-D and TPH-O (below screening levels), very low cPAHs, and a single mercury exceedance.
- Samples taken from immediately southwest of the former metals storage bins from MW-67 did not identify significant impacts from the bins. Very limited shallow

petroleum hydrocarbons impacts were observed within a 0.5 foot bgs sample. Low concentrations of PAHs and SVOCs were measured within soil at this location and incidental metals exceedances were noted. Groundwater impacts were limited to incidental screening level exceedances of BEHP (one sample) and copper (one sample).

Impacts were identified at the unpaved storage area. These included shallow metal and petroleum impacts that decreased with depth, a single PCB detection (in a 1 foot bgs sample), low concentrations of benzene and TCE, and several PAHs and SVOCs. Groundwater impacts included TPH-D and TPH-O; a single PCB detection; two BEHP detections; and exceedances of arsenic, copper, and manganese.

Star Forge identified and removed soil with elevated PCBs within the Powerhouse Vault during its facility closure activities. Following the removal activities, a sidewall sample was collected from the southern end of the vault. The sidewall sample contained PCBs at low concentrations, though above the screening level.

4.15 Steam Clean Area

A steam clean area was historically present outside of the former main building to the west of the former laboratory (Figure 2A). The area consisted of a steel grate overlying a 1 foot bgs concrete reservoir that drained by gravity to an associated oil-water separator. The oil-water separator was constructed of two hydraulic/ally connected tanks separated by a concrete baffle. Effluent water was gravity fed to Metro; oil was manually pumped to aboveground mobile totes. A former 300-gallon gasoline AST was historically located within an uncovered bermed area to the west of the steam clean area. The features were removed in 2008 to 2009.

Monitoring well MW-46 is located adjacent to the steam clean area and the approximate location of the former AST (Figure 16A). TPH-D and TPH-O were not detected in soil samples collected during installation of the well in 2009 but were detected in groundwater samples collected from the well during the August 2017 and February 2018 events. In August 2017, TPH-D was detected at 1,510 µg/L (above the screening level of 500 µg/L). TPH-G was not detected in soil samples but has been detected in groundwater samples at concentrations below screening levels. Benzene has also been detected in groundwater at low concentrations below screening levels.

During the RI, borings SB-2021-009 and SB-2021-039 were completed adjacent to these features and groundwater samples were taken from existing well MW-46 (Figure 16A).

TPH and BTEX: Petroleum hydrocarbons were not detected within samples taken from SB-2021-009, located within the footprint of the steam clean area (Table 12). Very low

TPH-O (all samples) and TPH-D (one sample) concentrations were measured within samples taken from boring SB-2021-039, north of the steam clean area. Low benzene concentrations were detected within the deepest soil samples (taken from adjacent to the water table) from both borings at concentrations up to 0.000910 J mg/kg, above the screening level of 0.00056 mg/kg.

Groundwater samples taken from MW-46 during the RI contained detectable TPH-D (up to 533 µg/L) with only one detection above the screening level of 500 µg/L (Table 23). TPH-G was detected at low concentrations (up to 160 µg/L) within two of the four samples (below the screening level of 1,000 µg/L). The samples that contained detectable TPH-G also contained detectable BTEX, but at levels below screening levels. Samples taken from this well during previous investigations have occasionally contained detectable petroleum hydrocarbons; samples taken before 2017 did not contain concentrations above screening levels.

PCBs: Soil and groundwater samples taken from this area (soil from SB-2021-009, SB-2021-039, and MW-46) and groundwater samples taken from MW-46 were not analyzed for PCBs.

PAHs: Low levels of several cPAHs were detected within soil samples taken from SB-2021-009 and SB-2021-039. Benzo(a)pyrene was detected at concentrations up to 0.00762 mg/kg, above the screening level of 0.000016 mg/kg. Total cPAH TEQ values ranged from 0.000093 to 0.0099 mg/kg, above the screening level of 0.000016 mg/kg (Table 14). These screening level exceedances are common at the Site due to the very low screening levels. In 2009, naphthalene was detected within soil samples taken during installation of MW-46 (as high as 1.5 mg/kg within a 10.5 feet bgs sample). Naphthalene was detected at 0.154 D mg/kg within a 7.4 feet bgs sample taken from SB-2021-039, above the screening level of 0.0021 mg/kg (Table 15).

Groundwater samples taken from MW-46 contained several PAHs at concentrations above screening levels (Tables 25 and 26), including two benzo(a)anthracene (up to 0.00200 J µg/L), one benzo(b)fluoranthene (0.00200 J µg/L), and two naphthalene (up to 27.6 D, B[17] µg/L) exceedances. Two of the samples had total cPAH TEQ values (up to 0.00145 µg/L) above the screening level of 0.000016 µg/L.

SVOCs: Soil samples taken during the RI were not analyzed for SVOCs (other than PAHs). Groundwater samples taken from MW-46 were analyzed for the limited list SVOCs; none were detected above screening levels (Table 27).

VOCs: Soil samples taken from SB-2021-009 and SB-2021-039 did not contain detectable concentrations of the analyzed HVOCs (Table 17). Groundwater samples taken from MW-46 contained low, below screening level, concentrations of vinyl chloride (Table 29).

[17] B indicates the analyte was detected in the method blank. Flag applied by the laboratory.

Metals: As with other locations on the Site, soil samples taken from this area contained selenium and vanadium (to a lesser extent) at concentrations above screening levels (Table 18). Other metal exceedances were minor. Arsenic was detected slightly above the 7.3 mg/kg screening level within the 10.8 feet bgs sample from SB-2020-009 (9.09 mg/kg). Mercury was detected above the 0.07 mg/kg screening level within the 13.8 feet bgs sample taken from SB-2021-039 (0.338 mg/kg).

Three of the four groundwater samples taken from monitoring well MW-46 contained total (but not dissolved) arsenic at concentrations of up to 26.1 µg/L (above the 8 µg/L screening level). These exceedances may be attributable to TPH-degradation-related pH changes or could be associated with particulates within the sample

Summary: The soil sampling completed in this area did not identify a significant release from the steam clean feature. Minor groundwater impacts are observed within samples taken from MW-46, including petroleum hydrocarbons and some PAHs. Some metals exceedances were measured that are likely associated with increased mobility resulting from the degradation of TPH.

It should be noted that no groundwater monitoring wells are present in the area between MW-46 and upgradient monitoring well MW-31 that also contains elevated TPH-D concentrations. It is possible that the detections in MW-46 are associated with dissolved-phase petroleum contamination associated with the Area 1 LNAPL plume. However, the distance between MW-46 and MW-31 makes this unlikely. In addition, TPH-G is sometimes detected at MW-46 and is not detected at the upgradient locations, suggesting that the groundwater contamination at this location may be attributable to releases from the gasoline AST, steam clean area, or the associated oil-water separator.

4.16 Former Tote Storage Area

The former TSA, referred to within the RI Work Plan as the Former Acid House/Former Etch House, was an approximately 800 square feet concrete-bermed and covered area located south of the melt bag house (Figure 2A). The floor of the structure consisted of an asphalt slab overlying concrete. Since the 1990s, the structure was used for temporary storage of chemicals for future disposal. Historically, the structure was used to clean and etch product samples prior to laboratory testing. An acid pit, consisting of a concrete vault located to the north of the TSA and south of the melt baghouse, reportedly contained limestone and was used to neutralize acid from etching operations.

Explorations completed within the vicinity of the TSA are shown in Figure 16B. Borings completed during previous Site investigations in the vicinity of the TSA and acid pit (DM-B-15 and DM-B-16) contained soil samples with low pH levels (4.15 and 4.2 mg/kg). Monitoring well MW-47 is located to the west and downgradient of the TSA. Field pH

measurements at well MW-47 have been within normal (6.71 to 6.93) range, and petroleum hydrocarbons and PCBs have not been detected within the well.

During Clean Closure activities completed in 2020, Star Forge collected four asphalt samples from the floor of the TSA and analyzed the samples for petroleum hydrocarbons, VOCs, PCBs, metals (RCRA metals and copper, nickel, and zinc), and TCLP RCRA metals. The samples contained PCBs at concentrations ranging from 15.1 to 40 mg/kg and TPH-O at concentrations ranging from 15,000 to 20,000 mg/kg. The highest concentrations were measured within the sample taken in the southwest quadrant of the TSA. Based on these results, Ecology requested that additional sampling be completed during the RI to further investigate the PCB detections with the TSA asphalt.

4.16.1 Remedial Investigation Pavement and Soil Sampling

During the RI, Shannon & Wilson completed sampling from three locations within the TSA building and four locations outside of the TSA (see Figure 16B). Additionally, monitoring wells MW-53 and MW-54 were installed along the shoreline to the north and south of the TSA (Figure 16A).

Explorations TSA-2020-001, TSA-2020-002, and TSA-2020-003 were completed within the southeast, north-central, and southwest areas of the TSA, respectively. Borings TSA-2021-004, TSA-2021-005, TSA-2021-006, and TSA-2021-007 were completed outside of the building to the east, north, west, and south, respectively. Within the TSA, coring was completed to expose the underlying soil. Approximately 0.3 foot of asphalt was observed at the surface of each location. At two locations (TSA-2020-001 and TSA-2020-002), approximately 0.7 foot of concrete was cored below the asphalt to reach the underlying soil. At TSA-2020-003, approximately 0.6 foot of gravel was encountered below the asphalt. When the gravel was removed to allow for soil sampling, the field sampler noted that the exploration appeared to have been completed at a location where the concrete had historically been cored (concrete that had not been cored during this investigation was noted around the sidewall of the hole).

Soil and pavement analytical results from within and around the TSA are summarized in Table 20. Concrete samples taken from borings TSA-2020-001 (southeast area of TSA) and TSA-2020-002 (north-central area of TSA) contained PCBs at concentrations of 0.764 mg/kg and 0.0566 mg/kg, respectively. Soil samples collected during the RI from below the TSA pavement contained PCBs at concentrations ranging from 0.00350 J to 1.476 mg/kg. The highest PCB detection was measured within the 1.5 feet bgs sample taken from TSA-2020-002 (north-central area of the TSA). The sample taken from 2 feet bgs at boring TSA-2020-002 contained PCBs at only 0.00370 J mg/kg.

Asphalt samples taken from TSA-2021-004 (east of TSA) and TSA-2021-006 (west of TSA) contained PCBs at concentrations of 8.67 D mg/kg and 0.431 mg/kg, respectively. Soil samples taken from around the TSA contained PCBs at low concentrations ranging from not-detected above laboratory detection limits to as high a 0.762 JH* mg/kg. Concentrations were shown to reduce with depth to very low or not-detectable levels.

Groundwater samples taken from wells MW-53 and MW-54 did not contain detectable concentrations of petroleum hydrocarbons or PCBs.

4.16.2 Star Forge Clean Closure Sampling

In October 2023, Star Forge completed Clean Closure of the TSA. The TSA building, slab, and entrance ramp were demolished, and the underlying soil was excavated to depths ranging from 1.5 to 2.0 feet bgs. The deeper portion of the excavation coincided with the northern portion of the building footprint, where higher PCBs were measured during the RI. As shown in Exhibit 4-9, confirmation samples were taken from four locations below the removed slab (TS-SS-NW, TS-SS-NE, TS-SS-SW, and TS-SS-SE) and from a location below the entrance ramp to the east (TS-SS-E). The samples were taken from depths of 1.5 feet bgs (the southern two samples and the ramp sample) and 2.0 feet bgs (the northern two samples), and were analyzed for TPH-D, TPH-O, and PCBs.

TPH-D, TPH-O, and PCBs were detected within two of the five confirmation samples. The TPH-D (up to 900 mg/kg) and TPH-O (up to 560 mg/kg) concentrations were below the screening level of 2,000 mg/kg. The PCB concentrations (up to 0.36 mg/kg) exceed the screening level of 0.0000005 mg/kg but were below the Star Forge targeted cleanup level of 1 mg/kg. The detections were measured within the 2 feet bgs sample taken from below the northeast area of the building footprint and within the 1.5 feet bgs sample taken from below the entrance ramp to the east of the building. The highest detections were measured within the sample collected from below the ramp location.



Exhibit 4-9: Tote Storage Area Clean Closure Sampling (DH Environmental, Inc., 2024a)

4.16.3 Summary of Findings

Sampling completed within and around the TSA during the RI identified low concentrations of PCBs within soils below and around the TSA. Only one soil sample (1.5 feet bgs sample from north-central area of the TSA) contained PCBs at concentrations above 1 mg/kg. PCB detections reduced with depth. During Clean Closure of the TSA, Star Forge removed the TSA building, slab, and ramp, and excavated soils below the building footprint and ramp. The excavation extended to depths ranging from 1.5 to 2.0 feet bgs. Below the northern portion of the building footprint (location with PCBs at concentrations above 1 mg/kg), the excavation was extended to 2 feet bgs. Based on the confirmation samples, it appears that the soil with PCBs at concentrations above 1 mg/kg was successfully removed from the Site.

Groundwater samples taken from wells MW-47 (west of the TSA), MW-53 (northwest of the TSA), and MW-54 (southwest of the TSA) have not contained detectable concentrations of petroleum hydrocarbons or PCBs.

4.17 Northwest Corner

Boeing's Area 2-66 sheet pile is located adjacent to the northwestern corner of the Site. As discussed in Section B.1.11.1 of Appendix B, groundwater impacts have been identified on Boeing property in this area, including chlorinated VOCs, BTEX, naphthalene, metals, cyanide, TPH-G, TPH-D, and PCBs.

Two structures were located in the northwest corner of the Site. These included the Black Shack Motor Storage building and the Diesel Fueling and Used Oil Storage Building. The later of these previously contained a diesel AST and has been used as a dangerous waste accumulation area; within Clean Closure documentation, this building is referred to as the Central Accumulation Area (CAA). Following cleaning of the concrete floor of the CAA, DH Environmental, Inc., collected concrete samples to determine if the slab would need to be managed as hazardous debris. The concrete samples were analyzed for total metals, TCLP metals, VOCs, PCBs, PAHs, and for petroleum hydrocarbons. The slab did not characterize as hazardous; however, TPH-D and TPH-O were detected within the concrete. A concrete sample taken from within the southeast corner of the building contained TPH-D and TPH-O at concentrations of 4,700 and 2,400 mg/kg, respectively.

Explorations completed in the northwest corner of the Site are shown in Figure 16C. During past investigations, petroleum hydrocarbon impacts have been identified in the area. The contaminated soil appeared to be most prevalent in the area to the east of the Black Shack Motor Storage building and north of the Diesel Fueling and Used Oil Storage Building. The highest TPH-G concentrations (maximum concentration of 5,200 mg/kg measured in sample taken from boring SB-07229) were measured in samples taken from depths between 10 and

14 feet bgs. TPH-D was measured at concentrations above screening levels within samples taken between 2 and 16 feet bgs, with the highest detected concentrations measured in samples taken between 6 and 10 feet bgs (maximum concentration of 9,000 mg/kg measured in sample taken from boring SB-07233r). TPH-O was measured at concentrations above screening levels in samples taken from depths between 6 and 16 feet bgs, with the highest concentrations measured within samples taken from 6 to 10 feet bgs (maximum concentration of 19,000 J mg/kg measured in sample taken from boring SB-07233r). Benzene was not detected above screening levels in soil samples taken in this area except from within the nearby JFOS area. PCBs were detected in some soil samples taken from this area; though concentrations were above screening levels, they were generally low (at or below 0.2 mg/kg). PCBs have been detected within nearby areas, including the JFOS and soils adjacent to OA-11. PAHs have been detected within the JFOS, but not typically within this area.

Limited groundwater impacts were identified, including TPH-G at up to 1,800 J µg/L (detected in 2006) and TPH-D at concentrations up to 730 µg/L (detected in 2005). Benzene was detected in groundwater samples taken from the area, with the highest detections occurring adjacent to the JFOS. PCBs were detected within a single groundwater sample taken from Boeing well PL2-JF01AR, which was located adjacent to the JFOS. BEHP has occasionally been detected within groundwater samples taken in this area, including concentrations of 29 µg/L within a sample taken from PL2-JF04A and 35 µg/L within a sample taken from MW-5.

4.17.1 Remedial Investigation Soil and Groundwater Sampling

During the RI, borings SB-2020-014, SB-2020-015, SB-2020-016, and SB-2021-041 were completed at locations to the northwest, northeast, south, and southeast of the two buildings, respectively (locations shown in Figure 16C). Monitoring wells MW-69 and MW-70 were installed to the northwest of the buildings near the northern property boundary and SB-2020-014. MW-69 and MW-70 were completed as a set, with MW-69 screened within the "A" zone and MW-70 screened within the "B" zone from 45 to 60 feet bgs.

TPH and BTEX: Soil samples taken from SB-2020-015 and SB-2020-016 did not contain detectable concentrations of TPH-G, TPH-D, or TPH-O. Low concentrations (below screening levels) of TPH-D (up to 190 J* mg/kg) and TPH-O (600 J* mg/kg) were measured within soil samples taken from near the water table at boring SB-2020-014 and SB-2021-041, with higher concentrations measured within the sample taken from SB-2020-014. The SB-2020-014 sample (collected from 11 feet bgs) also contained TPH-G (at 713 J* mg/kg, above the screening level of 100 mg/kg). Shallower samples from these borings did not contain

detectable petroleum hydrocarbons, suggesting that these impacts are associated with groundwater contamination at this location. Soil samples taken at MW-70, located near SB-2020-014, contained low concentrations (below screening levels) of TPH-D (up to 243 D mg/kg) and TPH-O (up to 673 D mg/kg) within samples taken from 0, 4.3, and 8 feet bgs. The highest concentrations, which were slightly higher than those measured at SB-2020-014, were measured within a shallower 4.3 feet bgs sample at MW-70. Samples taken from the boring for MW-70 did not contain detectable TPH-G.

Soil samples taken from SB-2020-014, SB-2020-015, SB-2020-016, SB-2021-041, and MW-70 contained low (above the screening level of 0.00056 mg/kg) concentrations of benzene (up to a concentration of 0.00166 mg/kg). Except at MW-70, the benzene detections occurred with samples taken from the near the water table.

Samples taken from MW-50, MW-51, and MW-52 (located to the northeast, north, and southwest of the buildings) during the RI or during past events (as recent as 2017), have not contained detectable concentrations of TPH-G, TPH-D, or TPH-O. Samples taken from these wells contained low (below screening level) or non-detectable levels of benzene.

Well pair MW-69 and MW-70 was installed during the RI to the west of MW-51 and near the northern property boundary. Samples taken from newly installed "A" zone well MW-69 contained TPH-D (up to 1,340 µg/L) at concentrations above the screening level. Benzene was detected in all four samples taken from MW-69 (as high as 2.69 µg/L); three of the four detections exceeded the screening level. Low concentrations (below screening levels) of TPH-G (up to 455 µg/L) and less frequently TPH-O (up to 403 µg/L) were also detected within samples taken from this well.

One sample taken from newly installed "B" zone well MW-70 contained TPH-G (293 µg/L, below the screening level of 1,000 µg/L) and TPH-D (1,080 µg/L, above the screening level of 500 µg/L). Other samples taken from MW-70 did not contain petroleum hydrocarbons. The sample with elevated TPH-D also contained benzene at 1.72 µg/L, just above the screening level of 1.6 µg/L.

PCBs: PCBs were detected at very low concentrations within soil samples taken from borings in this area. The highest detection (0.283 mg/kg) was measured within a 1 foot bgs sample taken from boring SB-2020-015, which is located south of the OA-11 investigation area. Deeper samples from SB-2020-015 did not contain detectable PCBs. At other locations within the area, PCBs were detected at up 0.0688 J* mg/kg. Typically, the PCB detections occurred within the shallower samples (depths ranging from 1 to 11 feet bgs), with non-detects occurring within the deeper samples. PCBs were not detected within groundwater samples taken from MW-50, MW-51, MW-52, MW-69, or MW-70. Except for a groundwater

sample taken from Boeing well PL2-JF01AR in 2007, which contained PCBs at 0.0140 µg/L, PCBs have not been detected in groundwater within this area.

PAHs: Low concentrations of cPAHs were detected within soil samples taken from SB-2020-014, SB-2020-015, SB-2020-016, SB-2021-040, and MW-70, with detections occurring less frequently within samples taken from SB-2020-015 and SB-2020-016. Benzo(a)pyrene was detected at concentrations of up to 0.00947 mg/kg (above the screening level of 0.000016 mg/kg). Total cPAH TEQ values ranged from not detected to up to 0.014 mg/kg (above the screening level of 0.000016 mg/kg). The highest benzo(a)pyrene and total cPAH TEQ values were measured within a surface sample taken from the boring for MW-70.

Naphthalene was detected less frequently at concentrations up to 0.0947 mg/kg (above the screening level of 0.0021 mg/kg). One sample taken from SB-2020-015 (from 1 foot bgs) contained 2-methylnaphthalene at 0.0641 mg/kg, above the screening level of 0.039 mg/kg.

With the exception of a single benzo(a)anthracene detection of 0.00600 J µg/L at MW-70 (above the screening level of 0.00016 µg/L), wells within this area did not contain detectable cPAHs. Naphthalene was detected within a sample taken from MW-69 (11.8 µg/L, above the screening level of 1.4 µg/L), but not within other samples taken from the area (TPH-D was present within the sample).

SVOCs: Groundwater samples taken from MW-69 were analyzed for limited SVOCs. Three of four groundwater samples taken from MW-69 contained 1,4-dichlorobenzene at concentrations above the screening level of 4.96 µg/L (detections up to 5.90 JL* µg/L).

HVOCs: Low concentrations of TCE (up to 0.0783 mg/kg, above the screening level of 0.00027 mg/kg) and, to a much lesser extent, PCE (up to 0.00515 mg/kg, above the screening level of 0.0016 mg/kg) were detected within soil samples taken from borings SB-2020-014, SB-2020-015, SB-2020-016, SB-2021-041, and MW-70. The TCE detections occurred within shallow soils. At SB-2020-015 and SB-2020-016, TCE was not detected in the deepest samples (taken from 13 and 12 feet bgs, respectively). At SB-2021-041, TCE was detected within a sample taken from 13.3 feet bgs, but not within a 19 feet bgs sample. TCE was detected within all samples taken from SB-2020-014 (deepest sample taken from 11 feet bgs), but was not present within the 35, 45, or 55 feet bgs samples taken from nearby MW-70.

Samples taken from the "A" zone wells (MW-50, MW-51, MW-52, and MW-69) contained intermittent low (below screening level) detections of TCE and trans-1,2-DCE and persistent low detections (below screening level) detections of 1,2-DCE. All but three of the samples contained vinyl chloride at concentrations above the screening level with the highest detections (up to 2.96 µg/L) measured within the samples taken from MW-50. Intermittent HVOC detections were also measured within samples taken from "B" zone well MW-70.

One sample from the well contained elevated TCE (9.38 µg/L) and another contained vinyl chloride (0.540 µg/L) above the screening level.

Metals: Metal detections within soil in this area were generally consistent with other metals found on the site. As with other locations on the Site, soil samples taken from this area contained selenium and vanadium (to a lesser extent) at concentrations above screening levels. Other screening level exceedances were typically minor. Higher than typical concentrations of nickel were detected within the 20.5 feet bgs sample taken from SB-2020-015 (140 mg/kg). A surface sample taken from the boring for MW-70 contained several metals at concentrations above screening levels, including arsenic (at 12.7 mg/kg), chromium (122 mg/kg), copper (189 mg/kg), nickel (662 D mg/kg), and zinc (149 mg/kg). These detections decreased with depth to below screening levels.

Total and dissolved manganese were detected above the screening level of 2,000 µg/L (up to 2,310 D and 2,270 D µg/L, respectively) within samples taken from MW-69 and MW-70. Other incidental metal exceedances occurred, including two samples at MW-70 with total barium (up to 272 D µg/L) above the screening level of 200 µg/L (dissolved barium below screening level); one sample at MW-70 with total copper (3.61 µg/L) slightly above the screening level of 3.1 µg/L; and one sample at MW-69 with total iron (32,700 D µg/L) slightly above the background level of 32,000 µg/L.

4.17.2 Star Forge Clean Closure Sampling

In August 2023, Star Forge completed Clean Closure of the CAA. The CAA building was demolished, and the underlying slab was removed from the Site (DH Environmental, Inc., 2024a). As shown in Exhibit 4-10, confirmation samples were taken from four locations below the removed slab (CAA-SS-NW, CAA-SS-NE, CAA-SS-SW, and CAA-SS-SE) from depths of 0.25 foot bgs.

The samples were analyzed for TPH-D and TPH-O. The samples contained TPH-D (up to 790 mg/kg) and TPH-O (up to 410 mg/kg) at concentrations below screening levels. The highest TPH-D and TPH-O detections were measured within the sample taken from the northeast corner of the building footprint (CAA-SS-NE).

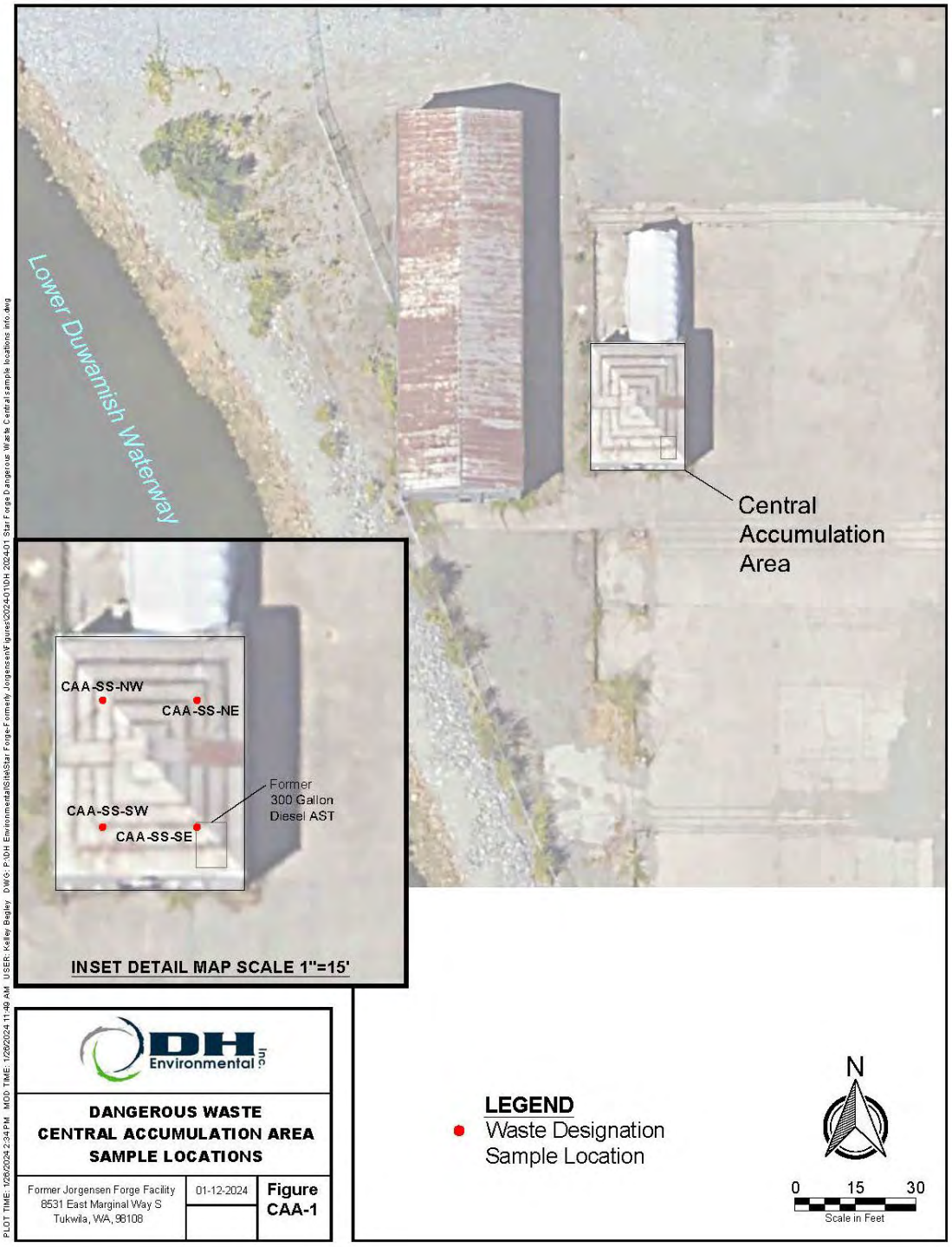


Exhibit 4-10: Central Accumulation Area Clean Closure Sampling (DH Environmental, Inc., 2024a)

4.17.3 Summary of Findings

Soil sampling completed during the RI did not identify a significant release area within the northwest corner of the Site. Low levels of petroleum hydrocarbons and benzene were measured within soil samples taken from near the water table, indicating that the soil impacts are likely associated with groundwater impact. TCE and PCBs were detected with some regularity in shallow soils, but at very low levels. Clean Closure confirmation samples taken from below the CAA slab identified low concentrations (below screening levels) of TPH-D and TPH-O; the detections suggest limited releases may have occurred from this building but are not consistent with a significant release.

The primary issues identified within this area include:

- TPH-D and benzene was detected above screening levels in groundwater at MW-69 and, to a lesser extent, MW-70. The impact was not observed at other locations.
- HVOCs, primarily vinyl chloride, were detected within groundwater in the area.

Groundwater impacts in this area are believed to be associated with off- to on-site migration from the neighboring upgradient Boeing Plant 2 facility. Off- to on-site migration from the Boeing Plant 2 facility is discussed further in Section 4.23. Figures showing plumes extending from the Boeing Plant 2 Facility and onto the Site are included within Attachment B-1 of Appendix B.

4.18 Shoreline and Embayment

The Site borders the LDW on its western boundary. At the southern end of the Site, the property abuts the LDW with a vertical sheet pile bulkhead and concrete panel wall. In areas to the north, the property shoreline is roughly sloped at a 3 Horizontal to 1 Vertical ratio and has been covered with granular activated carbon-amended filter material, armor material, and rounded habitat material. Fill is present along much of the shoreline, including behind the sheet pile bulkhead and within the historical embayment. Site activities along the shoreline have been limited; they formerly included a swarf storage area along the center portion of the Site and slag storage at the southwestern corner of the Site (discussed in Section 1.2)(Figure 2A). Prior to 1982, steam cleaning operations were reportedly completed in the swarf storage area (SEACOR, 1992). The melt bag house was located within this area. As discussed within Section A.2.1 of Appendix A, dust generated during the former melt operations was handled as dangerous waste (designated K061). As such, the bag house was considered a DWMU during the Star Forge Clean Closure activities. Concrete samples taken from the slab below the northern portion of the bag house contained TPH-D (up to 2,900 mg/kg) and hexavalent chromium (up to 23 mg/kg).

To minimize repetition, discussion within this section focuses on the shoreline areas that do not overlap with the northwest corner (discussed in Section 4.17) and the Former Metals Storage Area (discussed in Section 4.14).

PCBs, PAHs, and metals have been detected during previous investigations along the shoreline, particularly within near-shore locations. Historical sample locations in this area are shown in Figure B-7 of Appendix B. Though detected within soils, PCBs and PAHs have not frequently been measured above screening levels within groundwater samples collected in the area. Two excavations were completed in 2013 along the shoreline near the center of the Site to remove PCB- and metal-impacted soil in advance of Jorgensen Forge EAA shoreline remediation activities. These excavations, referred to as the SB3 and SB4 excavations, are discussed further in Section B.2.2 of Appendix B and shown in Figure B-7 of Appendix B, as well as within Figures 2A and 2B. Prior to the excavation work, PCBs were detected within samples taken from borings SB3 and SB4 at concentrations of up to 17.8 mg/kg and 11.3 mg/kg, respectively. At SB3, the PCB concentrations reduced quickly with depth. At SB4, the PCB concentrations reduced with depth, but were still above 1 mg/kg within the deepest sample (1.56 mg/kg within 14 to 16 feet bgs sample). The SB4 excavation removed material up to 6 feet bgs; as such, PCB-impacted soils were left in place below the base of the excavation. After the excavations, the remaining concentrations (measured in excavation sidewall and base samples) were significantly lower. Except at one location (JF-SB4NSW-9), PCBs were either not detected or were detected at concentrations below 1 mg/kg within the confirmation samples. Sample JF-SB4NSW-9, a 4 feet bgs sidewall sample within excavation SB4, contained PCBs at 4.5 mg/kg.

4.18.1 Remedial Investigation Soil and Groundwater Sampling

During the RI, several borings and monitoring wells were completed along the shoreline and in the filled embayment (Figure 16A). Boring SB-2020-013 was completed near the shore in the approximate center of the Site and wells MW-53 and MW-54 were completed to the north-northeast and south-southeast of the boring. Additional borings SB-2020-007, SB-2020-008, and SB-2021-065 were completed inland within the embayment footprint. Monitoring well MW-65 was completed within the footprint of the embayment adjacent to boring SB-2021-065.

Several previously installed wells are located along the shoreline of the Site; from north to south, these include MW-47, MW-42, MW-43, MW-44, and MW-39. MW-42, MW-43, and MW-44 were installed as a set with varying screen intervals.

TPH and BTEX: Low concentrations of TPH-D and TPH-O (below screening levels) were measured in soil samples taken from the borings for MW-53, MW-54, and MW-65. Low concentrations of benzene (up to 0.00131 J mg/kg, above the screening level of 0.00056

mg/kg) were detected within samples taken from 2 and 5.5 feet bgs at SB-2020-008, from 1 foot bgs at MW-54, and from 20 feet bgs at MW-65 (Table 12).

Groundwater samples taken from this area did not contain petroleum hydrocarbons or benzene at concentrations above laboratory reporting limits except at MW-65 and MW-43. The groundwater samples taken from MW-65 contained detectable levels of benzene (up to 0.250 µg/L, below the screening level of 1.6 µg/L). Samples taken from MW-43 (which is screened within the "B" zone), contained low (below screening levels) concentrations of TPH-D (up to 169 µg/L) and benzene (up to 0.220 µg/L).

PCBs: PCBs were detected in one or more soil samples taken from each exploration completed in this area except at boring SB-2021-065, which was only sampled at 13 feet bgs (Table 13). PCB detections occurred more frequently at explorations where the depth of fill placement was greatest.

At MW-54, located approximately 35 feet southwest of historical excavation SB4, elevated PCBs (56.1 D mg/kg) were detected within a sample taken from 1 foot bgs. The next shallowest sample at MW-54 (5.5 feet bgs) contained 4.42 D mg/kg total PCBs. PCB concentrations within deeper samples (9 and 14.5 feet bgs) contained very low concentrations of PCBs (less than 0.06 mg/kg). The lateral distribution of PCB impacts in this area is not known. However, based on the PCB occurrence and excavation work completed at SB3 and SB4, the extent of PCB-impacted soil in the vicinity ofMW-54 is likely limited.

At SB-2020-013, immediately adjacent to historical excavation SB4, PCBs were detected at concentrations ranging from 0.00380 J to 0.1987 mg/kg with the highest detections in the 1.5 feet bgs sample (0.1693 mg/kg) and the 20.5 feet bgs sample (0.1987 mg/kg). PCBs were not detected within the sample taken at SB-2020-013 from 23 feet bgs.

At other explorations in this area (MW-53, SB-2020-007, SB-2020-008, and MW-65), PCBs were detected at very low concentrations of up to 0.0342 mg/kg. The PCB soil detections are likely due to the historical placement of fill in this area.

Low, but above the screening level, concentrations of PCBs were detected on occasion within groundwater samples taken from MW-39 (Table 24). The samples collected from MW-39 in May 2021 and November 2021 contained PCBs at concentrations of 0.00300 J µg/L and 0.00400 J µg/L, respectively. PCBs were not detected within the samples collected from the well in February 2021 and August 2021. The PCB detections may be attributable to particulates or other factors such as salinity as this well has been demonstrated to be influenced by the adjacent LDW (Section 2.2.6.2). Field measured parameters taken during groundwater sampling activities are summarized in Table 34. As shown in Table 34,

conductivity, salinity, total dissolved solids , and turbidity readings measured at well MW-39 were higher in May 2021 and November 2021 (the events with PCB detections) than in February 2021. Readings were not recorded in August 2021 because the well went dry and was sampled after allowing time for recharge.

In 2003, a sample taken from MW-6, located within the embayment footprint, contained PCBs at a concentration of 0.410 µg/L. PCBs were not detected in samples taken from MW-6 in 2008, 2017, 2018, or 2021.

Except for the two detections at MW-39 in 2021 and the single detection at MW-6 in 2003, PCBs have not been detected in groundwater in this area. Samples taken during the RI from wells MW-42, MW-43, MW-44, MW-47, MW-53, MW-54, and MW-65 were analyzed for PCBs. PCBs were not detected at concentrations above laboratory reporting limits. Additionally, samples historically taken from Boeing wells PL2-JF02A and PL2JF03A did not contain PCBs.

PAHs: Several cPAHs were detected within soil samples taken from the area; though above the screening level, the detections were low. Benzo(a)pyrene was detected at concentrations of up to 0.0246 mg/kg, above the screening level of 0.000016 mg/kg and total cPAH TEQ values ranged from 0.00075 mg/kg to 0.034 mg/kg, above the screening level of 0.000016 mg/kg (Table 14). Naphthalene was detected at concentrations of up to 0.0189 mg/kg, above the screening level of 0.0021 mg/kg. Acenaphthene was detected above its screening level of 0.028 mg/kg within the 20.5 feet bgs sample taken from SB-2020-13 (0.0452 mg/kg). PAHs were not detected in shoreline wells (Table 15).

SVOCs: Soil samples taken during the RI in this area were not analyzed for SVOCs (other than PAHs). Groundwater samples taken from MW-53, MW-54, and MW-65 were analyzed for Limited SVOCs and samples taken from MW-47 were analyzed for the full list of SVOCs. No SVOCs were detected above screening levels within groundwater samples taken from this area.

VOCs: Soil samples taken from SB-2020-008, SB-2020-014, SB-2021-065, and from the borings for MW-53, MW-54, and MW-65 did not contain HVOCs above screening levels (Table 17).

Vinyl chloride was detected above the screening level of 0.18 µg/L in samples taken from MW-43 (up to 0.440 µg/L). MW-43 is screened within the "B" zone.

Metals: Metal detections within soil samples included exceedances of selenium, typical across the Site. Though commonly detected at concentrations above the screening level at the Site, vanadium concentrations within this area did not exceed the screening level.

Scattered slight screening level exceedances of other metals included the following (Table 18):

- Arsenic was detected above the screening level of 7.3 mg/kg within two samples. The 10 to 10.9 feet bgs sample taken from SB-2020-007 contained arsenic at 7.54 mg/kg. The 5.5 feet bgs sample taken from SB-2020-008 contained arsenic at 10.9 mg/kg.
- Mercury was detected just above the 0.07 mg/kg screening level within two samples taken from SB-2020-007. The 6 to 7 feet bgs sample contained mercury at 0.0801 mg/kg and 10 to 10.9 feet bgs sample contained mercury at 0.0810 mg/kg.
- Copper was detected slightly above the 36 mg/kg screening level in the 1 foot bgs sample at MW-53; detected at 40.3 mg/kg.
- Lead was detected slightly above the 50 mg/kg screening level in the 1 foot bgs sample taken from MW-54 detected at 67.2 mg/kg.

Metals were not generally detected above screening levels within shoreline wells except for the following (Table 30):

- Total and dissolved manganese were detected above the background level of 2,000 µg/L within samples taken from MW-65 (maximum detections of 5,490 D µg/L and 5,330 D µg/L were measured within samples taken from MW-65).
- One sample taken from MW-39 contained total nickel (12.4 D µg/L) above the screening level of 8.2 µg/L. Dissolved nickel was not detected above the screening level within the same sample. As mentioned in the PCBs discussion earlier in this section, this detection appears to have been influenced by particulates (total manganese was detected at higher than typical concentrations within the sample). During the February 2018 event, a similar trend was noted (higher than typical total arsenic, manganese, and nickel concentrations measured in samples with significantly lower dissolved arsenic, manganese, and nickel concentrations).
- Three of four samples taken from MW-39 contained detectable dissolved hexavalent chromium (concentrations ranged between 13 and 16 µg/L, above the screening level of 0.36 µg/L).
- Two of four samples taken from MW-65 contained total nickel (up to 22.9 µg/L) and dissolved nickel (up to 22.8 µg/L) at concentrations above the 8.2 µg/L screening level.

4.18.2 Star Forge Clean Closure Sampling

In November 2023, Star Forge completed Clean Closure of the bag house. The structure was demolished and the slab below the northern portion of the structure, along with the upper 6 inches of soil, were removed from the Site (DH Environmental, Inc., 2024a). As shown in Exhibit 4-11, confirmation soil samples were taken from four locations below the removed

slab (BH-N-SS-NW, BH-N-SS-NE, BH-N-SS-SW, and BH-N-SS-SE) from depths of 1.5 feet bgs.

The samples were analyzed for TPH-D, TPH-O, and hexavalent chromium. TPH-D was not detected within the samples. Low concentrations (below the screening level of 2,000 mg/kg) of TPH-O were detected within the samples at concentrations ranging from 180 mg/kg to 570 mg/kg. Two of the samples contained hexavalent chromium at concentrations of 1.4 mg/kg and 2.8 mg/kg (above the screening level of 0.0069 mg/kg).

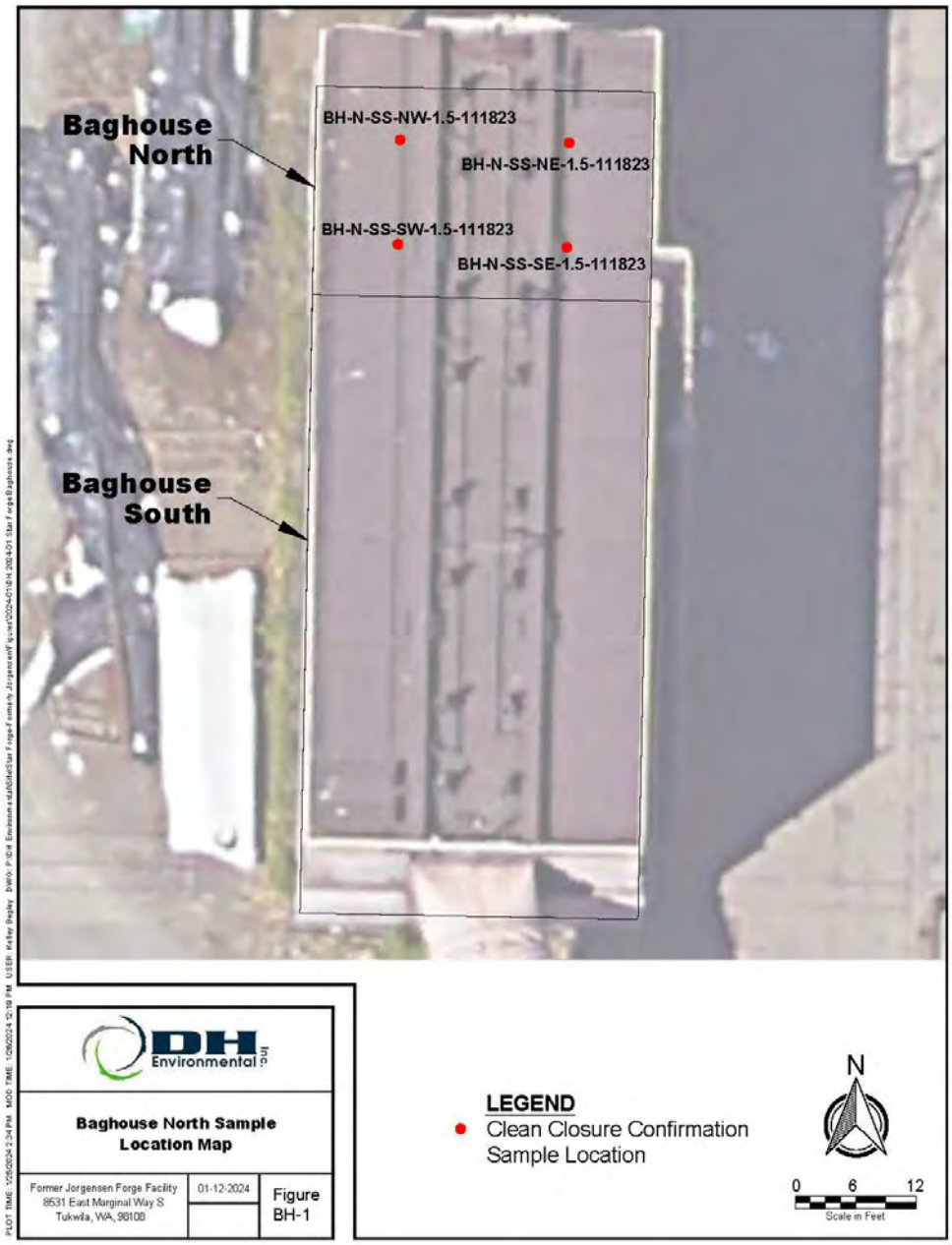


Exhibit 4-11: Bag House Clean Closure Sampling (DH Environmental, Inc., 2024a)

4.18.3 Summary of Findings

Explorations completed during the RI along the shore and in the embayment did not identify significant impact within the area. PCBs were detected in soil at low levels (generally below 0.2 mg/kg) but were not typically detected in groundwater. Samples taken from the boring for MW-54 contained elevated PCBs (56.1 D mg/kg at 1 foot bgs), which decreased with depth. Groundwater samples taken from the well did not contain detectable PCBs. On occasion, PCBs were detected within groundwater samples taken from MW-39. This well is located behind the sheet-pile wall and is influenced by the LDW. The detections are believed to be attributable to particulates or other factors such as salinity. The PCB soil detections appear to be associated with the historical placement of fill in this area.

Sporadic metal exceedances occurred in soil; these exceedances were not significantly above screening levels. Except for manganese and nickel (at MW-65) and hexavalent chromium (at MW-39), groundwater in this area did not contain metals at concentrations above screening levels. Hexavalent chromium was detected at concentrations above the screening level within shallow soil samples taken from below the bag house northern slab during Star Forge Clean Closure activities. The bag house feature is not located near MW-39, and is not likely a source of contamination to groundwater at MW-39. The source of hexavalent chromium in groundwater at MW-39 is unknown.

4.19 Bethlehem Pacific

From 1949 to the early 1960s, Bethlehem Pacific operated a steel fabrication center on the northwestern quarter of the property (occupying much of the infilled embayment area). Operations included cutting prefabricated steel rods to customers' specifications and galvanizing. Galvanization is the process of applying a zinc coating to steel or iron products with the purpose of preventing rust and corrosion. Aboveground structures associated with the Bethlehem Pacific facility were removed shortly after the facility closed in the early 1960s. The original slab-on-grade concrete foundation for the Bethlehem Pacific facility is still present at the Site. No historical documentation regarding the removal activities has been identified; however, there is no evidence to suggest that belowground structures, such as stormwater conveyance lines, were removed.

Previous sampling efforts have not identified contamination that was attributed to the former Bethlehem Pacific facility operations. This area overlaps with other potential source areas, including the former steam clean area, associated oil-water separator, and former gasoline AST (discussed in Section 4.14.2), the embayment (discussed in Section 4.18), and the Tote Storage Area (discussed in Section 4.16). Sampling within this area focused on providing a better spatial distribution of data and to investigate the location where galvanization activities were historically conducted at the former Bethlehem Pacific facility.

During the RI, borings SB-2020-005, SB-2020-007, SB-2020-008, SB-2021-009, SB-2021-017, SB-2021-039, and SB-2021-065 were completed and monitoring wells MW-65, MW-66, and MW-76 were installed. Existing monitoring wells MW-9, MW-25, MW-46, and MW-48 are located within the footprint of the former Bethlehem Pacific facility and were sampled during the RI.

TPH and BTEX: Though some of the soil samples taken from this area contained detectable concentrations of TPH-D and/or TPH-O, none of the detections exceeded the screening levels (Table 12). Benzene was detected above the screening level of 0.00056 mg/kg in several samples at very low concentrations ranging from 0.000570 J high as 0.00103 J mg/kg.

With the exception of MW-46, which is located adjacent to the former steam clean area, associated oil-water separator, and gasoline AST, groundwater samples taken from monitoring wells MW-9, MW-25, MW-46, MW-48, MW-65, MW-66, and MW-76 during the RI and previous events, have not contained TPH or BTEX at concentrations above the screening level, except a single elevated TPH-D measured at MW-25 in the early 1990s (RI results provided in Table 23 and historic findings summarized in Table B-3 of Appendix B).

During the RI, all four groundwater samples taken from MW-46 contained detectable TPH-D (up to 533 µg/L) with only one detection above the screening level of 500 µg/L. TPH-G was detected at low concentrations (up to 160 µg/L, below the screening level of 1,000 µg/L) within two of the four samples. The samples that contained detectable TPH-G also contained detectable BTEX, but at levels below screening levels. Samples taken from this well during previous investigations have occasionally contained detectable petroleum hydrocarbons; samples taken before 2017 did not contain concentrations above screening levels.

PCBs: As discussed in Section 4.18, low levels of PCBs (up to 0.0114 J mg/kg) were detected within some of the soil samples taken from borings SB-2020-007 and SB-2020-008, and in the boring for MW-65 (Table 13). These locations are within the filled embayment footprint. Groundwater samples taken during the RI or during prior sampling events did not contain detectable PCBs (Table 24).

PAHs: During the RI, several cPAHs were detected within soil samples collected in this area at low concentrations above the screening levels (Table 14). Benzo(a)pyrene was detected at concentrations up to 0.0302 mg/kg and total cPAH TEQ values of up to 0.04 mg/kg were calculated (above screening levels of 0.000016 mg/kg). These screening level exceedances are common at the Site due to the very low screening level levels. In addition to cPAHs, naphthalene was detected above the screening level of 0.0021 mg/kg within several samples (as high as 0.154 mg/kg in one sample but otherwise at or below 0.0123 mg/kg) (Table 15).

In 2009, naphthalene was detected within soil samples taken during installation of MW-46 (as high as 1.5 mg/kg within a 10.5 feet bgs sample). Soil samples taken from the boring for MW-76 also contained acenaphthene up to 0.0596 J* mg/kg (screening level of 0.028 mg/kg), dibenzofuran up to 0.0375 J* mg/kg (screening level of 0.029 mg/kg), fluoranthene up to 0.101 mg/kg (screening level of 0.090 mg/kg), and fluorene up to 0.0680 J* mg/kg (screening level of 0.029 mg/kg).

During the RI, PAHs were not generally detected within groundwater samples in this area at levels above screening levels (Tables 25 and 26). Exceptions included a single low benzo(a)anthracene (0.00100 J µg/L) exceedance within a sample taken from MW-25 and several compounds detected within samples taken from MW-46. These included two benzo(a)anthracene (up to 0.00100 J µg/L), one benzo(b)fluoranthene (0.00800 J µg/L), and two naphthalene (up to 27.6 D,B µg/L) exceedances. Of note, groundwater samples taken from MW-76 (which had soil sample PAH exceedances) did not contain PAHs at levels above screening levels.

SVOCs: SVOCs other than the previously discussed PAHs, were not typically detected in soil samples taken during the RI in this area with the exception of BEHP up to 0.00860 J mg/kg (screening level of 0.0051 mg/kg) exceedances measured within soil samples taken from MW-76 (Table 15). This compound was not detected within groundwater samples taken from this well (Table 28).

VOCs: Very slight HVOC exceedances were measured in soil samples taken from the boring for MW-66, located at the north end of this area (Table 17). PCE was detected at 0.00165 JH* mg/kg (just above the screening level of 0.00160 mg/kg) within the 1.2 feet bgs sample taken from the boring. A deeper sample (10 feet bgs) from the boring contained TCE at 0.000520 J mg/kg (above the screening level of 0.000266 mg/kg).

Except for a few historic vinyl chloride groundwater exceedances (discussed in Section 4.23), samples taken from monitoring wells in this area have not (historically or during the RI) contained HVOCs at concentrations above screening levels (Table 29).

Metals: As with other locations on the Site, soil samples taken from this area contained selenium and vanadium (to a lesser extent) at concentrations above the screening levels (Table 18). Other metal exceedances included sporadic arsenic, copper, and mercury exceedances, and elevated zinc at one exploration, as follows:

- MW-66 is located at the approximate location of the former Bethlehem Pacific galvanizing shop. Zinc, which is used during the galvanization process, was measured at elevated levels within the soil samples taken from MW-66. Zinc was measured above the screening level (85 mg/kg) in samples taken from 1.2 feet bgs (538 D mg/kg), 5.5 feet

bgs (426 D mg/kg), and 10 feet bgs (143 mg/kg) and below screening levels in the deepest sample taken from 15.5 feet bgs.

- Arsenic was detected slightly above the 7.3 mg/kg screening level in several samples, including the 6 feet bgs sample taken from SB-2020-005 (8.77 mg/kg), the 10 to 10.9 feet bgs sample from SB-2020-007 (7.54 mg/kg), the sample taken from 5.5 feet bgs sample from SB-2020-008 (10.9 mg/kg), 10.8 feet bgs sample from SB-2020-009 (9.09 mg/kg), and the 5 and 15.5 feet bgs samples taken from MW-76 (up to 8.2 J* mg/kg).
- Mercury was detected above the 0.07 mg/kg screening level in four samples, including the 6 feet bgs sample taken from SB-2020-005 (0.143 mg/kg), the 13.8 feet bgs sample taken from SB-2021-039 (0.338 mg/kg), and in the 6 to 7 and 10 to 10.9 feet bgs samples from SB-2020-007 (up to 0.0810 mg/kg).
- Copper was detected above the 36 mg/kg screening level in the 6 feet bgs sample taken from SB-2020-005 (38 mg/kg) and within the 5 feet bgs sample from MW-76 (45.6 J* mg/kg).

Groundwater samples taken from monitoring wells MW-9, MW-25, MW-46, MW-48, MW-65, MW-66, and MW-68 did not identify significant metals impact in this area. Screening level metal groundwater exceedances included the following (Table 30):

- Total and dissolved manganese were detected above the background level of 2,000 µg/L within samples taken from MW-65 (up to 5,490 D and 5,330 D µg/L, respectively).
- Total and sometimes dissolved arsenic were detected above the screening level of 8 µg/L within samples taken from MW-25 (up to 131 and 91.6 µg/L, respectively). MW-25 is located near the Area 1 LNAPL plume. The elevated arsenic at this location is likely a result of increased pH levels associated with the degradation of TPH in this area.
- Total and dissolved nickel were detected above the screening level of 8.2 µg/L within two of four samples taken from MW-65 (up to 22.9 and 22.8 µg/L, respectively.

Other metal screening level exceedances were sporadic and included a single dissolved copper exceedance within a sample taken from MW-9 (measured at 6.39 µg/L, above the screening level of 3.1 µg/L) and total arsenic (but not dissolved) exceedances within samples taken from MW-46 (up to 26.1 µg/L).

Summary: Impacts within this area were limited and primarily attributable to other areas of interest. Zinc impacts were noted within soil at MW-66. These impacts are likely attributable to the former Bethlehem Pacific facility galvanizing shop, which was at this approximate location. Zinc was not detected at elevated levels within groundwater at this location.

4.20 Per- and Polyfluoroalkyl Substances Release Area

Three aqueous film forming foam (AFFF) fire suppression systems were formerly installed at the Site to serve the 660-ton, 1,250-ton, and 2,500-ton presses. The system for the 2,500-ton press also appears to have served the vertical furnace within the Q1/Q2/Q3 vault. AFFF solution/water has at least once been stored in the Used Oil Storage Building (a DWMU) in the northwest corner of the Site. AFFF system and storage locations are shown in Figure 21. Prior to the RI, PFAS sampling had not been completed at the Site.

4.20.1 Remedial Investigation Groundwater Sampling

During the RI, limited groundwater sampling for PFAS was completed during the first and fourth quarters of 2021 groundwater monitoring events to evaluate the presence of PFAS within groundwater at the Site. Samples were collected from upgradient wells MW-8, MW-71, and MW-72 (to establish whether there is migration onto the Site); from within the vicinity of the AFFF fire suppression systems using wells MW-60, MW-63, and MW-64; and from downgradient wells MW-43 and MW-68 (see Figure 21). Based on the analytical results from the first quarter 2021 groundwater samples, the same monitoring wells and an additional two monitoring wells were sampled and analyzed in the fourth quarter of 2021. The additional wells included MW-36 (south of the 660-ton and 1,250-ton press pump rooms) and MW-74 (southwest of the 660-ton and 1,250-ton press pump rooms).

The samples were analyzed for the UCMR 3 list of six perfluorinated compounds: PFOS, PFOA, PFBS, PFHxS, PFHpA, and PFNA. Analytical results are summarized in Table 31 and exceedances are shown in Figure 21. All six analyzed PFAS compounds were detected within at least one sample; however, only PFOS was detected above its screening level of 1,100 nanograms per liter (ng/L). The PFOS exceedances were measured within samples taken from wells MW-60 (4,100 ng/L) and MW-74 (15,000 ng/L), which are located downgradient of the 660-ton and 1,250-ton press pump rooms. Samples taken from upgradient wells MW-8, MW-71, and MW-72 contained detectable concentrations of some PFAS compounds, although the concentrations were below the screening levels.

4.20.2 Additional PFAS Investigation

Based on the results of the initial PFAS groundwater sampling (i.e., first and fourth quarter of 2021), additional PFAS investigation was undertaken in 2022 and 2023. The additional investigation included analysis of soil and groundwater samples from areas where PFAS was previously detected, areas where AFFF was located, upgradient locations, and downgradient locations. The objectives of the PFAS investigation, locations, methods, and findings are described within the PFAS Investigation Report (Appendix H) and are summarized below.

The samples collected during 2022 and 2023 were analyzed using EPA Method 537 (modified) for 18 PFAS compounds. The PFAS compounds analyzed by EPA Method 537 (modified) included the six PFAS compounds from the UCMR 3 list and 12 additional PFAS compounds. Of the analyzed PFAS compounds, only PFOS was detected above the screening level in groundwater, and only PFOS and PFOA were detected above screening levels in soil. The locations of PFOS and PFOA exceedances are plotted on Figure 21. Analytical results are summarized in Table 3 (groundwater) and Table 4 (soil) of the PFAS Investigation Report (Appendix H).

During the PFAS investigation, groundwater was collected from 28 monitoring wells. PFOS was detected above the screening level of 1,100 ng/L within samples taken from MW 60 (4,200 ng/L), MW-61 (1,900 ng/L), and MW-74 (14,000 ng/L). The three monitoring wells are screened in the "A" groundwater zone.

Soil samples were collected from three direct-push borings (SB-2022-001, SB-2022-002, and SB-2022-003) and from the borings for three monitoring wells installed during the investigation (MW-77, MW-78, and MW-79). PFOS exceedances were detected within soil samples taken from SB-2022-001 (within 6 feet bgs and 10 feet bgs samples), SB-2022-002 (within 2 feet bgs, 4.5 feet bgs, and 8 feet bgs samples), and SB-2022-003 (within 8.5 feet bgs sample). PFOA exceedances were detected within soil samples taken from MW-77 (within 5 feet bgs sample), MW-78 (within 10 feet bgs sample), SB-2022-001 (within 6 feet bgs and 10 feet bgs samples), SB-2022-002 (within 2 feet bgs, 4.5 feet bgs, and 8 feet bgs samples), and SB-2022-003 (within 8.5 feet bgs sample). The highest PFOS concentration (370 J* micrograms per kilogram [µg/kg], above the screening level of 0.72 µg/kg) and PFOA concentration (2.3 J* µg/kg, above the screening level of 0.034 µg/kg) were measured within the 4.5 feet bgs taken from boring SB-2022-002.

In 2022, the AFFF systems were emptied, removed and disposed of at a regulated facility (DH Environmental, Inc., 2022).

4.20.3 Summary of Findings

Based on the soil and groundwater PFAS analytical results from 2021 through 2023 (i.e., both the RI work and PFAS investigation), the observed concentrations and locations of PFAS indicate a release or releases of AFFF from the vicinity of the 660-ton and 1,250-ton press pump rooms. Specifically, the highest detected concentrations of PFAS in soil and groundwater are downgradient from those features, including groundwater from MW-60, MW-61, and MW-74; and soil at SB-2022-001, SB-2022-002, and SB-2022-003.

Groundwater samples from upgradient wells MW-8, MW-23, and MW-72 had detections of PFAS below screening levels, indicating that PFAS in groundwater is migrating onto the Site

from upgradient sources. The higher detections at MW-8 suggest that a source may be present on the King County Airport property to the east.

PFAS compounds were detected in groundwater samples collected from each of the near-shore wells (MW-43, MW-52, MW-53, MW-54, MW-68, MW-69, and MW-70); however, the concentrations were below screening levels.

The highest PFOS groundwater detections were measured within samples taken from well MW-74, located less than 100 feet from the southern property line, with groundwater flow within the area generally towards the southwest. Groundwater samples taken from wells MW-77, MW-37, and MW-38 (each located near the southern property line, see Figure 21) contained detections of PFAS at concentrations below screening levels. The analytical data suggest that PFOS-impacted groundwater above the screening level is not migrating from the Site across the south property line.

As mentioned in Section 3.7.5, the 660-ton press vault, the 1,250-ton press vault, the 2,500-ton press vault, and the Q1/Q2/Q3 vault remain at the Site and are covered with engineered pit covers.

4.21 Pavement Polychlorinated Biphenyl Sampling

As discussed in Section 3.2.5, ten pavement samples were collected during the RI, including two concrete samples from within the TSA (below the asphalt floor) (TSA-Concrete-001 and TSA-Concrete-002), two asphalt samples taken from outside of the TSA to the east and west (Asphalt-001 and Asphalt-002), three samples taken from unstained asphalt locations across the Site (Asphalt-003, Asphalt-004, and Asphalt-005), and three locations across the Site where stains were apparent on the asphalt (Stain-001, Stain-002, and Stain -003). Results from in and around the TSA are summarized in Table 20. Results from other areas of the Site are provided in Table 35.

As shown in Table 20, concrete samples taken from within the TSA contained detectable low concentrations of PCBs (ranging from 0.0566 to 0.763 mg/kg). Similar concentrations (0.443 D mg/kg) were measured with the asphalt sample collected from west of the TSA. The asphalt sample taken from east of the TSA contained higher PCB concentrations (8.67 D mg/kg). Underlying soil samples at this location contained only low levels of PCBs (up to 0.762 JH* mg/kg).

As shown in Table 35, asphalt samples taken from locations without apparent staining contained PCBs at concentrations ranging from 0.00640 J to 0.0334 J mg/kg. Samples taken from stained locations contained PCBs at concentrations ranging from 0.00750 J to 0.0501 J mg/kg.

4.22 24-Inch Property Line Pipe

In 2011, video surveys of the 24-inch property line pipe were completed following pipe cleaning activities associated with the JFOS source control/removal actions (Floyd | Snider, 2011) (further discussion provided in Appendix B). The videos indicated that the clay portions of the pipe were intact. Because sampling activities associated with the pipeline have been primarily completed along the western end of the Site, Ecology requested that limited sampling be completed to assess soil below the pipeline along the eastern end of the Site.

During the RI, borings SB-2021-042, SB-2021-043, and SB-2021-044 were completed adjacent to the 24-inch property line pipe using an air knife and vacuum truck. The pipe was encountered at depths of 8 to 8.5 feet bgs. Slag was noted at the surface of each location. Sampling observations are summarized in Exhibit 4-12, below.

Exhibit 4-12: 24-Inch Property Line Sampling

Boring Name	Top of Pipe Depth (feet bgs)	Groundwater Depth (feet bgs)	Sample Depth (feet bgs)	Observations
SB-2021-042	8.5	10	11	Gray pipe with yellow flaked paint
SB-2021-043	8	8	9.5	Gray pipe
SB-2021-044	8.5	10	12	Gray pipe

At SB-2021-043, rocks were encountered within the exploration, and the sample was taken from near the bottom of the pipe rather than from below the base of the pipe. Samples were analyzed for TPH-D, TPH-O, PCBs, and cPAHs.

TPH: TPH-O was detected (between 12.6 to 14.9 mg/kg) in all three samples; one sample also contained a detection of TPH-D (6.35 J mg/kg) (Table 12). All TPH detections were well below screening levels.

PCBs: Very low concentrations of PCBs (above screening levels) were detected within all three samples (Table 13). PCBs were detected at concentrations ranging from 0.0145 to 0.4828 D mg/kg; detections included Aroclors 1254 and 1260.

PAHs: Very low concentrations of cPAHs (above screening levels) were detected within all three samples (Table 14).

Summary: Results from the sampling effort do not indicate that a significant release has occurred within this area from the 24-inch property line pipe.

4.23 Off- to On-Site Migration of Halogenated Volatile Organic Compounds in Groundwater

During past investigations at the Site, soil, groundwater from developed monitoring wells, and grab groundwater samples have been analyzed for HVOCs. Of note are TCE and vinyl chloride.

TCE: TCE was detected at low concentrations within soil at the Site. Except for a soil sample taken from 15.5 feet bgs at MW-37 (at the southern property boundary), the TCE soil detections were limited to explorations completed along the northern property boundary. Where detected, TCE concentrations ranged from 0.001 mg/kg to 0.0830 mg/kg, (above the screening level of 0.00027 mg/kg). At MW-37, TCE was not detected within a shallower sample collected from 11 feet bgs. TCE was also detected within groundwater samples taken from borings and developed wells completed within the northwest corner of the Site and within the northeast corner of the Site.

During the RI, TCE was detected within soil at low concentrations (above the screening level of 0.00027 mg/kg) at locations along the northern property line (MW-66), within the northwest corner of the Site (SB-2020-014, SB-2020-015, SB-2020-016, SB-2021-041, MW-66, and MW-70), and within the southwest corner of the Site (SB-2021-068 and MW-68). The maximum TCE soil concentration (0.0783 mg/kg) was measured within an 8 feet bgs sample taken from SB-2020-014 in the northwest corner of the Site. At MW-66, TCE was detected within the sample taken from 10 feet bgs, but not within shallower samples, suggesting that the impact at this location is associated with contaminated groundwater.

During the RI, TCE was generally not detected within groundwater samples, or was detected at concentrations below the screening level of 0.7 µg/L. Detections were limited to wells completed in the northwest corner of the Site (MW-51, MW-69, and MW-70), along the northern property line (MW-23 and MW-49), and within the southwest corner of the Site (MW-67 and MW-68). Samples from two wells (MW-49 and MW-70) contained TCE at elevated concentrations (up to 9.38 µg/L). MW-70 is located in the northwest corner of the Site near the northern property boundary and MW-49 is located in the eastern side of the Site near the northern property boundary.

The distribution and measured concentrations of TCE at the Site indicate that releases have occurred to soil within the northwest corner of the Site and within the southwest corner of the Site. Based on groundwater samples collected within the vicinity of these soil releases, TCE soil impacts do not appear to be impacting groundwater at levels of concern (groundwater concentrations are below screening levels). Groundwater samples with TCE at concentrations above the screening level were only collected from two wells, MW-49 and

MW-70, located adjacent to the northern property line. Impacts at these locations appear to be associated with off- to on-site migration from the Boeing property to the north. As discussed in Section B.1.11 of Appendix B, TCE-impacted groundwater has been identified at the Boeing Plant 2 Facility. Figures showing TCE plumes at the Boeing Plant 2 Facility are included within Appendix B.

Vinyl Chloride: Analyzed soil samples did not generally contain detectable concentrations of vinyl chloride. The few exceptions included samples taken from below the water table from borings located along the northern property boundary (JF-DGP4, SB-08916, and SB-08923) which contained detectable concentrations of vinyl chloride. Shallower soil samples (only available at two of these borings) did not contain detectable concentrations of vinyl chloride, suggesting that the source of vinyl chloride within these samples was groundwater. During the RI, vinyl chloride was detected within a single soil sample. The sample was taken from 20.5 feet bgs from the boring for monitoring well MW-71 (located along the northern property boundary). Shallower soil samples from the boring did not contain detectable vinyl chloride.

Though not identified in Site soils, vinyl chloride has been detected above screening levels in groundwater samples taken from wells located across the Site, including wells screened within the deeper "B" zone. The highest vinyl chloride groundwater concentrations taken from monitoring wells were detected in Boeing wells PL2-JF01AR (as high as 16,000 µg/L in 2002) and PL2-JF01B (as high as 240 µg/L in 2003). Both wells, located in the northwest corner, showed decreasing trends prior to their decommissioning in 2013. Outside of the northwest corner, the highest detection prior to the RI (1.8 µg/L) occurred in well MW-49 in 2008 (located along the northern property boundary). Vinyl chloride detections within other areas of the Site were typically below 1 µg/L.

During the RI, the highest vinyl chloride detections were measured (up to 2.96 µg/L) within samples taken from well MW-50 (in the northwest corner of the Site). Grab groundwater samples were collected from across the northern half of the Site during Boeing's RCRA investigations in 1994 and 1995. At each location, the samples were typically taken from depths of 14, 25, and 45 feet bgs. Most of the grab groundwater samples contained vinyl chloride at concentrations above the screening level. The highest vinyl chloride detections (16,000 and 1,800 µg/L) occurred within samples taken from 25 feet bgs in the northwestern corner of the Site. In general, vinyl chloride concentrations decreased with distance from the northern property boundary. Within each boring, the grab groundwater sample collected from 25 feet bgs typically contained higher concentrations of vinyl chloride than the 14 and 45 feet bgs samples from the same boring; however, in the southernmost samples, the highest concentrations were detected at 45 feet bgs in the early 1990s.

The distribution and measured concentrations of vinyl chloride within groundwater samples taken from across the Site do not appear to be related to an on-site source. The only identified potential on-site source is the Shipping Area, where solvents were historically used to clean products prior to shipment. As discussed in Section 4.10, soil samples were taken from the boring for MW-58 within the Shipping Area. None of the soil samples taken from the boring contained detectable concentrations of vinyl chloride; in addition, none of the analyzed HVOCs were detected within soil samples taken from this location. Groundwater samples taken from the well did not contain detectable HVOCs.

Remedial activities were undertaken on the southwest corner of the Boeing property in the area where VOCs were at high concentrations. This remediation work has significantly reduced the VOC concentration on the northwest side of the Site. Figures showing vinyl chloride plumes at the Boeing Plant 2 Facility are included within Attachment B-1 of Appendix B.

4.24 South of Boeing OA-11

OA-11, located within Area 2-66 of the Boeing Plant 2 facility, is located immediately adjacent to the northern property boundary (Figure 2A). A former Seattle City Light substation was located within OA-11 approximately 12 feet north of the property boundary line. The transformer pad was constructed by Boeing in 1953, with curbs and fencing around the areas where the transformers would be placed. Three General Electric (GE) transformers were initially used at the substation and were removed in 1957 (Floyd Snider & Weston, 2005). The GE transformers were replaced by a set of three transformers manufactured by Westinghouse. An additional transformer was placed adjacent to the transformer pad in approximately 1966. Records explaining the reason for replacement of the GE transformers have not been identified. Boeing's consultant reported in 2001 that "When new, the transformers were cooled with oil containing polychlorinated biphenyls" (Weston, 2001). Floyd Snider & Weston also reported that Seattle City Light maintenance records from the late 1960s and early 1970s indicated that oil seepage and leaks had occurred from their transformers (Floyd Snider & Weston, 2005).

A concrete trough was formerly located along Plant 2's southern property boundary. Boeing's consultant described it as follows: "the substation area was historically served on its south side by a stormwater collection trough running alongside the Boeing side of the property and past the Area of Discovery [the excavation where the elevated PCBs were first identified] (Figure 22). The trough directed stormwater to a vault located 10 feet west of the substation. This vault, constructed in 1968, is connected to a nearby Boeing storm drain manhole (SDMH) 36-83 that received discharge from the trough as well as several other areas." (Floyd Snider & Weston, 2005). At some point, the concrete trough was removed

along parts of the southern boundary because in 2001, the trough adjacent to the substation was reported to only extend from the eastern edge of the pad to beyond the western edge where it discharged to an oil/water interceptor (Floyd Snider, 2007).

PCB-containing soil and groundwater was initially identified in OA-11, to the west of the substation, during Boeing investigations completed in 1991 and 1995. In 2001, elevated concentrations of PCBs were detected in soil samples collected from a 3-foot-deep excavation completed to the south of the transformers. Floyd Snider reported that PCB concentrations were "greatest in the Area of Discovery where they exist as contaminated soil with thin seams of free product that were visible in the original excavation" and that "a hydrocarbon odor was noted in a sandy silt layer in soil approximately 10 to 18 inches bgs beneath a removed section of trough directly adjacent to the substation pad" (Floyd Snider, 2007).

Sidewall and base samples were collected from the Area of Discovery excavation in 2001. The PCB concentrations within the samples ranged from not detected above the laboratory reporting limit to 460 mg/kg (Figure 22). The highest concentrations, 460 and 300 mg/kg, were taken from 1.1 and 2.5 feet bgs, respectively, from the south sidewall (i.e., the sidewall closest to the Site) and the east sidewall of the excavation. Except for a handful of preliminary samples, which were apparently intended only to identify the presence or absence of PCBs for waste disposal purposes, it appears that samples were not taken from the excavated soil, where free product was observed, and the maximum PCB concentrations would likely have been detected.

In 2003 and 2005, Boeing completed investigations to determine the extent of the release; results were reported in the Phase I Transformer PCB Investigation Report (Floyd Snider McCarthy, Inc., 2004) and in the Phase II Transformer PCB Investigation Report (Floyd Snider and Weston Solutions, Inc., 2005). These investigations included the completion of several borings at the Site. Samples collected for analysis during each of these investigations were composited across approximately 2-foot intervals. Borings were designated as "SB-07" followed by three additional digits (for example, boring SB-07252). Boring locations are shown in Figure 16D, Figure 22, and Figure 23. Boring SB-07250, located on-site, contained PCBs at 3 mg/kg (Floyd Snider and Weston Solutions, Inc., 2005).

Boeing completed an interim measure excavation for OA-11 in September and October 2016 consisting of removal of PCB-contaminated soil on Boeing Plant 2 property and extending onto the Site. Boeing did not sample the excavated materials, so the PCB concentrations of these materials is not known. Samples collected from the southern sidewall of the excavation contained PCBs at concentrations exceeding 50 mg/kg, prompting the need for additional investigation. In April 2017, 13 borings were completed by Boeing's consultant

on the Site (JF-DP01 through JF-DP013). Samples collected for analysis during each of this investigation were composited across approximately two-foot intervals. Findings from the investigation were summarized in a technical memorandum (Floyd Snider, 2017).

To provide additional data to delineate the PCB soil contamination associated with OA-11, nine additional borings were included within the RI work plan for the Site (Shannon & Wilson, 2020a. Following receipt of the results and survey from the nine borings, a memorandum was provided to Ecology to request completion of an additional ten borings (Shannon & Wilson, 2021).

On January 27, 2021, nine soil borings (SB-2021-018 through SB-2021-026) were completed on the Site near the northern property boundary (Figure 16D). The borings were completed to delineate the west, south, east, and vertical extent of PCB soil contamination. PCBs sorb preferentially to organic material and PCB distributions within soil can vary significantly based on geology. During past investigations in the vicinity of OA-11, the highest PCB concentrations were measured within samples taken from intervals containing sandy silt or silt lenses. For this reason, the sampling approach included the collection of depth-discrete samples from varying lithologies (predominantly silty versus predominantly sandy) as well as delineation.

The planned boring placements targeted locations between previously completed Boeing soil borings and test pits. Following receipt of survey data, it was determined that two of the borings (SB-2021-021 and SB-2021-022) had been completed further south than intended. In addition, the westernmost boring (SB-2021-018) contained total PCBs at 1.1 mg/kg, indicating that delineation in the western direction had not been accomplished. On October 4, 2021, an additional ten borings (SB-2021-048 through SB-2021-057) were completed to provide additional delineation data (Figure 16D). During the second mobilization, the geologist targeted sample collection from silty layers. Boring locations, along with sample locations from previous Boeing investigations, are shown in Figure 22.

Within the 19 completed borings, the observed geology generally consisted of the following layers (from shallow to deep):

- Well-graded sand and gravel to well-graded gravel with sand (SW/GW), low silt content, brown to dark brown, moist, slag in places, fine to coarse sand, predominantly fine gravel, subangular. Typically encountered from approximately 0 to 1 foot bgs (approximately 1 foot thickness) and underlain by:
- Poorly Graded Sand (SP), variable silt content from minor silt to silty, silt lenses and stringers common, trace gravel in places, brown to gray, typically moist becoming saturated near base in several borings. Typically encountered from 1 to 6.5 feet bgs (approximately 5.5 feet thickness). A discontinuous silt (ML) lense ranging in thickness

from 0.1 to 0.3 foot was often encountered at depths between 2 to 3 feet bgs within the SP layer. The SP layer was underlain by:

- Silt (ML), minor fine sand, brown to gray, moist to wet, wet seams in places. Typically encountered from 6.5 feet bgs to the bottom of the explorations (except where saturated SP/SM encountered below) and underlain in places by:
- Saturated poorly graded sand to silty sand (SP/SM) (where encountered), variable silt content from trace to silty, gray to reddish-brown, wet, fine to medium sand, iron oxide staining common. Typically encountered from 8.9 feet bgs to bottom of explorations (e.g., 12 to 13 feet bgs).

TPH: TPH-D and TPH-O were detected at concentrations ranging from not detected above the laboratory reporting limit to as high as 3,800 D and 4,770 mg/kg, respectively, above the screening levels of 2,000 mg/kg (Table 21). The highest petroleum hydrocarbon concentrations typically coincided with the highest PCB detections.

PCBs: PCBs were detected above the laboratory reporting limit within 78 of the 83 samples at concentrations ranging from 0.000700 J to 998 D mg/kg (Table 21). Eleven of the samples (taken from nine borings) contained total PCB concentrations at or above 1 mg/kg. Samples with PCBs detected above 1 mg/kg were typically taken from depths between 2.2 and 2.8 feet bgs (the depth at which the silt lense was observed). Only 3 of these 11 samples were taken from greater depths (between 5.5 and 11 feet bgs); of these, 2 were taken from locations where PCBs were elevated at shallower depths. The PCB detections were primarily comprised of Aroclors 1254 and 1260, with Aroclor 1260 having the higher concentration. This makeup is consistent with samples collected on the Boeing property, including samples taken from around the transformer pad.

Observed soil types for each sample are included within Table 21. The results clearly demonstrate a link between silt and elevated PCB concentrations at the Site. Nine (9) of the 11 samples with PCBs at or above 1 mg/kg were taken from layers described as sandy silt or silt; one was taken from a sand layer with trace silt; and one was taken from a sand layer within a boring with elevated PCBs at a shallower depth. The highest PCB concentrations measured during the two events were taken from the silt lense noted between depths of 2 and 3 feet bgs. These detections included 144 mg/kg measured within the 2.2 feet bgs sample taken from SB-2021-020, 447 mg/kg measured within the 2.5 feet bgs sample taken from SB-2021-050, and 998 D mg/kg measured within the 2.8 feet bgs sample taken from SB-2021-053. This silt lense was noted during past investigations in the area; the highest PCB detections were measured within samples taken from intervals that contained this lense. A silt lense was noted within the south sidewall of the Area of Discovery excavation in 2001; the sample taken from the lense (from 1.1 feet bgs) contained PCBs at 460 mg/kg. In addition, as mentioned previously, a sandy silt layer with hydrocarbon odor was noted at 10

to 18 inches bgs beneath a section of removed trough adjacent to the substation pad (Floyd Snider, 2007).

The relationship between PCB concentration and lithology is further demonstrated by comparing the results for the primary and duplicate samples collected from boring SB-2021-057 in October 2021. A silt layer was observed within the boring between 2.3 and 2.6 feet bgs. This layer was targeted for sampling; however, insufficient silt material was available for the primary and duplicate sample. The sampler chose to include the silt material within the primary sample (rather than splitting the material between the two samples) to avoid biasing the sample results low and to collect the duplicate sample from as near the interval as possible. The primary sample comprised of silt material contained total PCBs of 18.98 J* and the duplicate sample contained PCBs at only 0.713 J* mg/kg.

Figure 22 shows sample locations completed in the vicinity of OA-11 from previous Boeing investigations and from the 2021 RI work. The highest total PCB concentrations measured at each location are presented in Figure 22. Generalized subsurface profiles have been prepared to provide a visual understanding of the vertical and lateral extent of the PCB concentrations. Cross section locations are shown in Figure 23. Generalized Subsurface Profile H-H′ (west-east on the Site) and I-I′ (north-south spanning the property line) are provided in Figures 24 and 25, respectively. From Figure 22 through 25, it is apparent that PCB-impacted soil radiates out from the Boeing OA-11 Area of Discovery excavation. The cross sections show that the highest PCB detections occur within the silt lense that is present within the poorly graded sand layer. Within the 2021 borings completed on the Site the silt lense (0.1 to 0.3 foot in thickness) was observed at depths between 2 and 3 feet bgs. On the Boeing property, the lense (0.6 to 0.8 foot in thickness) was noted within the 2001 Area of Discovery excavation south sidewall (sample taken from this layer from 1.1 foot bgs). The elevation of the Area of Discovery excavation shown in Figure 25 is based on Boeing pre-2001 survey data and corrected for NAVD83.)

The sampling strategy employed during the RI included depth-discrete sampling from specific lithology types, rather than the collection of composite samples from depth intervals that span multiple lithologies. The initial event focused on sampling and analyzing different lithologies and the second event specifically focused on sampling and analyzing silt layers, i.e., the layers in which PCBs are most likely to be found. When comparing concentrations detected during the 2021 investigation with concentrations from samples collected during previous investigations completed by Boeing, it should be noted that the previous investigations employed composite sampling methodologies that may or may not have included the silt layer. This composite method of collecting samples could have included part of the silt layer as well as surrounding material, which has the potential to reduce the measured PCB concentration. Though the highest PCB detections from past

investigations were measured in samples from depth intervals that included a silt layer, the detections likely would have been higher if the sample material had been taken from only the silt layer.

The RI sampling south of OA-11 successfully delineated the extent of PCB-impacted soil on the Site associated with Boeing's OA-11 to the south and east. The extent of PCB-impacted soil in the western direction was not delineated. The 5.5 feet bgs sample taken from boring SB-2021-018 contained PCBs at 1.1 mg/kg. Borings SB-2021-048 and -049 were completed to the west and northwest of the boring in October 2021 to provide additional data. Samples taken from 2.2 feet bgs from borings SB-2021-048 and -049 contained total PCBs at 9.87 and 12.24 mg/kg, respectively.

The investigation provided data to better understand the distribution of PCBs and has demonstrated the strong relationship between lithology and PCB concentration. There is no evidence that PCBs were used on the Site area south of and in the proximity to the Boeing OA-11 Area of Discovery while there is documented evidence that transformers with documented releases were present on the Boeing property. Free product was observed at the Area of Discovery on the Boeing property; though not sampled, the concentration of PCBs within this removed soil may have been higher than the concentrations measured during subsequent investigations.

When presented alongside previous findings, the 2021 results show PCB-impacted soil radiating out from the Area of Discovery with the most elevated PCB concentrations found within the silt lense that has been observed on the Boeing property and the Site. The strong relationship between lithology and PCB concentration and the sampling methodology employed during the various investigations (depth discrete sampling versus composite sampling) should be considered when interpreting the results.

4.25 Grain Size and Porosity

Grain-size analysis was performed on 29 soil samples on the Site to support evaluation of subsurface conditions. The analyses were performed in accordance with Puget Sound Estuary Program methodology (1986). Sieve sizes were 3/8-inch, #4, #10, #18, #35, #60, #120, and #230. Results are provided in Table 22. Findings are incorporated into boring logs and cross sections.

Porosity analysis was performed on 4 soil samples on the Site to support the hydrogeological evaluation. Soil was extracted from the subsurface using a Shelby tube and submitted for lab analysis. Results are provided in Table 22. Findings are incorporated into the hydrogeological evaluation (Section 2.2).

5 CONCEPTUAL SITE MODEL

A preliminary CSM has been developed to identify potential sources of hazardous substances at the Site and the potential pathways by which these substances may reach potential human and ecological receptors. Figure 26 presents the preliminary CSM using a flow chart and illustration.

5.1 Potential Primary Sources and Transport Mechanisms

As shown in Figure 26, the potential primary sources have been divided into four categories, including:

- Oil Storage Areas and Oil-Water Separators: These include the former ASTs, USTs, vaults, and oil-water separators. Subsurface piping associated with these features are also included within this category. The primary substances associated with these features include cutting oil, hydraulic oil, diesel fuel, waste oil, quench oil, and heating oil.
- Off-Site Sources: This includes off-site contaminant sources, such as Boeing Plant 2 to the north and the Boeing Isaacson-Thompson site to the south. The primary substances associated with Boeing Plant 2 include HVOCs and PCBs. Metals are associated with the Boeing Isaacson-Thompson site.
- Chemical Storage and Use Areas and Maintenance Areas: These include areas at the Site that were used to store and use chemicals or to perform maintenance activities, such as the Shipping Area (northwest corner of main building); the storage building located at the northwest corner of the Site; the oil house to the east of the main building; and the auto repair, electrical, and carpentry shop areas. The primary substances associated with these locations include solvents, coolants, VOCs, SVOCs, metals, and petroleum products.
- Production, Metals Storage, and Buildings: These include areas of the Site that may have contributed metals, particulates, and petroleum hydrocarbons such as exposed material storage areas, exposed pavement and building materials, and interior production areas.
- Fire Suppression Systems: These includes areas where AFFF was stored either for use in the event of a fire such as the 660-ton, 1,250-ton and 2,500-ton press rooms and quench tank vault, or in storage areas after removal from the tanks such as the Diesel Storage Building. The substances associated with these locations are PFAS.

The primary potential transport mechanisms from the above sources include:

- Leaks, spills, and overflows from oil storage areas, oil-water separators, and the AFFF-containing fire suppression systems. This pathway is considered a historic pathway because these features are no longer present at the Site.
- Groundwater flow transporting hazardous substances from off-Site sources.

- Leaks and spills from chemical storage and use areas and from maintenance areas. This pathway is considered a historic pathway because these features are no longer present at the Site.
- Stormwater flow and infiltration within remaining unpaved areas.
- Stormwater flow to and through the conveyance system.
- Leaching through soil and groundwater flow due to precipitation.
- Airborne from stationary and mobile sources, and transport via truck, rail, or people movement (tread transport). This pathway is considered a historic pathway because these sources are no longer present at the Site.

5.2 Secondary Sources and Transport Mechanisms

The primary potential transport mechanisms described within the previous section may generate secondary sources, including LNAPL; contaminated groundwater, soil, stormwater, or intermittent stormwater ponds during rain events; and fugitive dust. These secondary sources may then be transported via secondary transport mechanisms, including:

- LNAPL may remain as LNAPL, may dissolve into groundwater, or may volatilize.
- Groundwater may flow to surface water or sediment. Contaminants also may volatize from groundwater.
- Contaminants may be mobilized from soil through leaching to groundwater or stormwater runoff.
- Fugitive dust may have been mobilized by wind or stormwater. Operations did not occur near the LDW and generally occurred indoors such that wind transport is an incomplete pathway. This is considered a historic secondary source because the facility has been demolished and dust has been removed or is covered with pavement.

During rain events, stormwater ponds on the surface of the Site (western side of property). Prior to facility shutdown and demolition, this intermittent pooled stormwater was considered as an exposure medium. However, because Site operations have ceased and the facility has been demolished, the intermittent pooled stormwater is no longer considered an exposure medium. Stormwater flow that does not infiltrate the soil at the Site is captured by the stormwater conveyance system. Stormwater that enters the stormwater conveyance system is considered an incomplete pathway because it is mitigated by the stormwater treatment system.

5.3 Exposure Mediums, Exposure Pathways, and Potential Receptors

The potential exposure mediums on the property include vapor (if a building is constructed at the Site in the future), groundwater, and soil. Potential exposure mediums located off

property include groundwater, surface water, groundwater seeps, soil that lies between the Site western boundary and the beginning of sediment, and sediment. The mean high high-water mark is considered the line at which soil ends and sediment begins. These mediums may become contaminated via the mechanisms described within Sections 5.1 and 5.2. Potential receptors may be exposed via direct contact (dermal contact and/or ingestion), inhalation, or by the ingestion of benthic or aquatic species that may have been exposed to the contaminants as described below.

For each potential receptor, Figure 26 provides a determination of whether each potential pathway is considered complete or incomplete. In some cases, a potential pathway is not considered relevant to a particular receptor, and these are marked "NA" in the pathway row. For example, LNAPL is not present outside of the property and is therefore not relevant to off property human receptors or benthic and aquatic receptors.

Current and/or future on-property human receptors may be exposed to hazardous substances by direct contact with LNAPL, groundwater, or soil; or by inhalation of vapor or soil. These pathways are considered complete. Groundwater on the property and groundwater and surface water downgradient from the property are not a potential source of drinking water.

The most likely on-property human receptors include potential future construction workers who may come in contact with subsurface contamination (groundwater, LNAPL, and soil) and future workers who may be exposed to vapor from LNAPL via indoor air intrusion (if a building is constructed at the Site in the future).

Current and future off-property ecological receptors (both benthic and aquatic species) may be exposed to hazardous substances via direct contact with surface water, groundwater (from seeps), or sediment; or via ingestion of other benthic and aquatic species. Current and future off-property human receptors may be exposed to hazardous substances by direct contact with surface water, groundwater (from seeps), or sediment; or by the ingestion of the above-mentioned benthic and aquatic species. Sediment and the soil to the west of the Site western boundary are not considered a complete pathway to off-property human receptors because this material is capped.

6 CHEMICALS OF POTENTIAL CONCERN

During the RI work plan preparation process, an evaluation of the available data collected prior to the RI was completed to identify the COPCs to be analyzed for during the RI (Shannon & Wilson, 2020a). The evaluation included calculation of several statistics for each compound analyzed in groundwater and soil followed by an evaluation of the statistics and

dataset to determine which compounds could be eliminated from the COPC list. The results from the RI have been combined with the historical dataset to further refine the COPC list for the Site.

6.1 Chemicals of Potential Concern Evaluation

The COPC evaluation was carried out separately for groundwater and soil. Table 37 summarizes the COPC evaluation findings. Tables 38 and 39 present the detailed evaluations for groundwater and soil, respectively.

Though grab groundwater samples tend to have high turbidity and contain particulates that increase the analyzed chemical concentration, the groundwater evaluation completed during the RI work plan preparation process considered data from these samples along with samples taken from permanent wells. Because the RI included the installation of 27 additional monitoring wells (providing a greater spatial distribution of data and the data is less likely to be impacted by high turbidity) and completion of four groundwater sampling events (providing a more complete data set), the COPC evaluation reported herein considers only groundwater samples taken from permanent wells.

The evaluation is documented in Tables 37 and 38 and included calculation of several statistics for each compound analyzed in groundwater and soil followed by an evaluation of the statistics and dataset to determine which compounds could be eliminated from the COPC list. The following key statistics are presented in Table 38 and 39:

- The total number of samples analyzed for the compound and the numbers of analyzed samples in which the compound was or was not detected.
- The highest concentration detected within the analyzed samples.
- The total number of detected samples with concentrations above the screening level and the total number of non-detects with RLs above the screening level.
- The highest RL and median RL achieved by the environmental laboratories for the compound. The median RL was considered because it more accurately depicts the dataset (i.e., the dataset will not be skewed by a small number of elevated RLs).
- The representative practical quantitation limit (PQL) for the compound as obtained by surveying three environmental laboratories (Fremont Analytical, Inc., ALS Environmental, and ARI) in 2018. This value is considered as a representative minimum concentration that environmental laboratories can detect using current methods.

During the initial evaluation, a chemical was eliminated if any one of the following is true:

- The chemical was never detected, and the maximum RL is less than ten times the screening level.

- The chemical was never detected, and the median RL is less than twice the representative PQL.
- The maximum detected concentration and maximum RL (for non-detects) were below the screening level.
- There is no screening level established for the chemical.
- All three of the following criteria were true:
  - Frequency of detection not more than 5%
  - Maximum RL (for non-detects) not more than ten times the screening level
  - Maximum detection not more than twice the screening level
- Both of following criteria were true:
  - Maximum detected concentration and maximum RL (for non-detects) were not more than twice the screening level
  - Frequency of exceedance, including both detections and non-detects, not more than 10%

The chemicals retained as COPCs based on these criteria were then considered in more detail and, in some cases, additional chemicals were eliminated based on a detailed, chemical-specific weight of evidence review (documented within the comments column on Tables 37 and 38). Chemical-specific evidence in support of elimination from the COPC list included (but is not limited to):

- In some cases, a compound failed to meet the elimination criteria solely because of historical elevated RLs. When this occurred, median RLs and RLs from the RI were taken into consideration.
- In some cases, a compound failed to meet the elimination criteria, but was determined to be adequately close to the criteria. For example, chlorobenzene was detected in 11.3% of the analyzed groundwater samples (just above the 10% cut-off), and though never detected above the screening level, a single RL was greater than twice the screening level. This compound was eliminated.
- In some cases, a compound failed to meet the elimination criteria for groundwater due to historical detections. When more recent sampling results demonstrated that the compound is no longer present at concentrations above screening levels, the compound was eliminated.
- The basis of the most stringent screening level was considered and, if the basis of the screening level was found to be inappropriate for the Site, the data were reviewed with respect to more applicable screening levels. In these cases, the next most stringent screening level was considered. The screening levels used for the Site are summarized in Tables 9 and 10. These included:

- Most stringent screening level based on partition to groundwater: For compounds which were determined to be not impacting groundwater (eliminated during the groundwater COPC evaluation in Table 38), soil screening levels based on partition from soil to groundwater (i.e., soil screening levels established for the protection of surface water and sediment via the groundwater pathway) were determined to be inappropriate. This is based on the fact that soil and groundwater concentrations have reached equilibrium with each other (discussed further in Section 6.2). In these cases, alternative levels were considered.
- Most stringent screening level based on protection of sediment via erosion: For some compounds, the most stringent screening level within the PCUL document was based on protection of sediment via erosion. In these cases, samples taken from immediately adjacent to the top of bank (where erosion could occur) were screened against this value. Where erosion could not occur, alternative screening values were considered.
- Most stringent screening level set to natural background (metals): In some cases, the PCUL document sets the screening level to natural background concentrations because one or more of the values based on potential receptors were more stringent than natural concentrations. For some compounds, the screening levels that were more stringent than natural background were determined to be inappropriate (for example, soil screening level based on partition to groundwater, but groundwater impact demonstrated to be absent); in these cases, the next most stringent screening values (above the natural background concentration) were considered.

- If a review of the data indicated that a compound was present above the screening level within only a portion of the Site, the compound has been retained as a COPC within the pertinent area alone.

In some cases, a compound is retained only in one media.

6.2 Empirical Demonstration

The screening levels within the PCUL document include values based on the protection of a variety of receptors via potential pathways. As discussed in Section 4.2, soil data collected at the Site have been screened against levels identified within the PCUL document as the most stringent soil screening levels for saturated zone soil and non-potable groundwater, except that Site-specific TEE for unrestricted land use values have been replaced with Simplified TEE values. For soil, the screening levels include the following:

- Direct contact under unrestricted land use (direct contact)
- Saturated zone protection of surface water via ground water (surface water)
- Saturated zone protection of sediment via ground water (sediment)
- Protection of sediment via soil erosion (bank erosion)

- Simplified TEE for industrial/commercial properties (Simplified TEE)
- Natural background

In many cases, the most stringent soil screening levels for a compound are the protection of surface water or sediment. These levels are based on the potential for a compound to leach from soil to groundwater and then flow via groundwater to surface water or sediment (groundwater pathway). However, in many cases, a compound is present within soil at concentrations in excess of the soil leaching value protective of surface water or sediment but is not detected above screening levels within groundwater at the same location or in downgradient areas. This suggests that the soil and groundwater are in equilibrium and that a compound is not partitioning to groundwater at levels of concern. Therefore, a less stringent screening level may be more appropriate for the soil at this location.

Where a less stringent screening level is proposed, WAC 173-340-747(9) allows for use of an empirical demonstration to show that the proposed alternative screening level is protective. The demonstration must address the following:

1. Demonstrate that the groundwater concentration is less than or equal to the applicable groundwater cleanup level. This must be demonstrated using appropriately located wells (at or downgradient from the soil contamination) and data of sufficient quantity and quality (enough sampling events and acceptable RLs were achieved).
2. Demonstrate that the soil concentration will not cause an exceedance of the applicable groundwater cleanup level at any time in the future.

During the COPC evaluation, the first point was addressed and documented within the Comments column of Table 39 for each compound. The second point is discussed in further in Section 6.3.

6.3 Soil and Groundwater Relationship

In accordance with WAC 173-340-747(9), the relationship between soil concentrations and their potential to leach into groundwater were considered. Using the procedures in WAC 173-340-747, a less stringent PCUL may be selected if it can be empirically demonstrated to meet the following criteria:

1. That sufficient time has elapsed for hazardous substances to migrate from the soil to groundwater.
2. That current conditions are representative of future conditions.
3. That soil concentrations do not cause an exceedance of the applicable groundwater PCUL based on groundwater and soil results.

Contamination has been present at the Site since at least the early 1990s (when the first investigations were completed) and likely for many years prior to that time. The Site was first developed in 1942 and activities were relatively unchanged until 2018, when Site operations ceased. The minimal Site use changes that did occur during the time that the Site was in operation were those that would reduce ongoing impact to the environmental condition of the Site, such as, removing USTs, ceasing use of USTs, ceasing use of unpaved storage areas, shut-down of the melting operations, removal of the metal storage bins and paving of the area, installation of a stormwater treatment system, and other improvements to best management practices. During recent years, the Site operations ceased, all equipment and tanks were removed from the Site, and paving was added within some areas that were previously unpaved.

During the screening process, screening levels based on the protection of groundwater via leaching from saturated soil were selected. This is based on the consideration that soil that is not currently saturated may be saturated in the future due to sea level changes. However, the Site conditions today are unlikely to change much in the future. For example, the paved areas will remain paved. Where there is not currently pavement, this may or may not be paved in the future and any paving will positively change the relationship between soil to groundwater by reducing the potential to leach. Although sea level changes have already been noted, consideration of future conditions also accounts for a change in groundwater fluctuation particularly adjacent to the LDW. However, areas that are currently unpaved on the Site are mostly located along the nearshore area and stormwater infiltration means that effectively the vadose zone is saturated during wet periods. Thus, the unpaved areas are unlikely to be altered by changes in tidal impacts and sea level increase. Consequently, the past and future conditions are considered to be stable.

As demonstrated by the measured concentrations, where noted in the previous section, soil and groundwater concentrations at the Site are believed to have mostly reached equilibrium with each other. This equilibrium is demonstrated by the fact that there are several compounds which do not exceed groundwater screening levels despite those compounds being present within soil at concentrations above saturated soil partition screening levels. In addition, the COPC evaluation utilized screening levels based on saturated soil, even for samples taken from unsaturated areas; many compounds were screened out using these values, demonstrating that groundwater would not be negatively impacted if the soil were to become saturated in the future.

6.4 Terrestrial Ecological Evaluation

This section presents information required for the TEE, including applicable exposure analysis and pathways analysis. The Site is in a heavily developed and industrialized area

of the City of Tukwila. The Site is bordered by the LDW to the west, developed Boeing-owned parcels to the north and south, and East Marginal Way South to the east, with the KCIA just beyond that. The Site is zoned Manufacturing Industrial Center/Heavy Industrial and entry onto the Site is controlled from a security point on East Marginal Way South. Given the zoning designation and location adjacent to other industrial facilities, the future use of the Site is likely to be industrial or commercial.

6.4.1 Overview

The Site is almost entirely developed with paved areas. Where paving is not present, gravel has been placed above the native soil. Although the depth was only measured in some locations, the gravel layer above native soil is between 0.3 and 0.7 foot in thickness and is observed to be present in areas where concrete or asphalt is absent.

As stated in WAC 173-340-7492(2)(b), only potential exposure pathways to wildlife need be considered at industrial or commercial properties such as the Site. The gravel on the Site is likely to act as a barrier to the wildlife foraging in the soil but does not restrict access to the soil. Therefore, the unpaved areas are considered undeveloped areas as defined in WAC 173-340-7491(1)(c)(iii). The largest contiguous section of undeveloped area is at the western end of the Site adjacent to and alongside the LDW shoreline that continues off site to the north and south (Figure 2A). Other undeveloped areas on the Site include narrow strips of dense vegetation inside and outside the perimeter of the parcel boundary fence. While adjacent properties are also almost entirely developed, limited, isolated segments of vegetation are present in similar locations. For the Simplified TEE (WAC 173-340-900 Table 749-1), contiguous areas of undeveloped land within 500 feet of any area of the Site are measured and smaller areas which are not contiguous are excluded from the measurement. This measurement results in approximately 3 acres of undeveloped contiguous land on or immediately adjacent to the Site.

6.4.2 Vegetation

The Site vegetation in the gravel areas consists of patches of invasive and noxious weeds, including butterfly bush (Buddleia davidii, King County Class B), Himalayan blackberry (Rubus armeniacus, King County Class C), and tansy ragwort (Jacobaea vulgaris, King County Class B), with a small patch of 1- to 3 -foot-tall black cottonwood (Populus trichocarpa) growing adjacent to water that is ponded around a drain in the southeast corner of the Site. The noxious weeds grow along the outside of the western perimeter fence and along the shoreline of the LDW. The biologist was unable to survey the waterline outside of the fence due to a locked gate, however portions of the shoreline were visible from inside the fence and no vascular aquatic vegetation or macro-algae was observed at the

waterline. Further, no plants were observed growing in the riprap along the LDW shoreline.

The common and scientific names of all plant species observed during the field investigation are presented in Appendix G.

6.4.3 Wildlife

The Site is almost entirely developed and has limited foraging and breeding habitat for most species, excluding those that thrive in areas with high levels of human activity such as select small mammals (e.g. rats, mice, etc.) and birds (e.g. crows, gulls, etc.). Except for flight pathways for birds and limited undeveloped land on the western edge of the Site, no overland migration or dispersal corridors exist that could provide access for terrestrial wildlife to the Site.

During the field investigation, which was completed prior to demolition of the Site structures, the Shannon & Wilson biologist noted several gulls (family Laridae), rock pigeons (Columba livia), and American crows (Corvus brachyrhynchos) perched on top of the buildings or flying overhead. Several passerines were observed using the site, including dark eyed juncos (Junco hyemalis), and song sparrows (Melospiza melodia). No mammals were visibly observed at the time of the visit to the Site; however, rodents were heard moving about in some of the buildings. The site hosts ample opportunities for both Norway rats (Rattus norvegicus) and roof rats (Rattus rattus) to take refuge as well as common mice species, including deer mice (Peromyscus maniculatus), house mice (Mus musculus), and white-footed mice (Peromyscus leucopus). It was also noted that an Eastern cottontail rabbit (Sylvilagus floridanus) was observed exiting the Site by another individual prior to the Site visit.

Endangered Specifies Act listings in the U.S. Fish and Wildlife Service IPaC report documents marbled murrelet (Brachyramphus marmoratus, Threatened), streaked horned lark (Eremophila alpestris strigata, Threatened), yellow-billed cuckoo (Coccyzus americanus, Threatened), bull trout, and Monarch Butterfly (Danaus plexippus, Candidate) as species that could potentially be in the vicinity of the Site. However, based on their habitat requirements and behaviors these species would not be found on the Site.

The common and scientific names of all terrestrial wildlife species observed during the field investigation are presented in Appendix G.

6.4.4 Exposure Analysis – Simplified Terrestrial Ecological Evaluation

This section evaluates the risk of exposure to contaminated media for wildlife that inhabit or use the Site. The total area of soil contamination is greater than 350 square feet; therefore, the Simplified TEE in WAC 173-340-900 Table 749-1 was used to evaluate the potential for significant exposure to ecological receptors (Exhibit 6-1).

Estimate the area of contiguous (connected) undeveloped land on or within 500 feet of any area of the contaminated soil to the nearest ½ acre (1/4 acre if the area is less than 0.5 acre). "Undeveloped land" means land that is not covered by existing buildings, roads, paved areas or other barriers that will prevent wildfire from feeding on plants, earthworms, insects or other food in or on the soil.	
1) From the table below, find the number of points corresponding to the area and enter this number in the box to the right.	
Area (acres) / Points: 0.25 or less 4; 0.5 5; 1.0 6; 1.5 7; 2.0 8; 2.5 9; 3.0 10; 3.5 11; 4.0 or more 12	10
2) Is this an industrial or commercial property? See the definition in WAC 173-340-200. If yes, enter a score of 3 in the box to the right. If no, enter a score of 1.	3
3) Enter a score in the box to the right for the habitat quality of the contaminated soil and surrounding area, using the rating system shown below[b]. (High = 1, Intermediate = 2, Low = 3)	3
4) Is the undeveloped land likely to attract wildlife? If yes, enter a score of 1 in the box to the right. If no, enter a score of 2[c].	2
5) Are there any of the following soil hazardous substances present: Chlorinated dioxins/furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene? If yes, enter a score of 1 in the box to the right. If no, enter a score of 4.	1
Add the numbers in the boxes on lines 2 through 5 and enter this number to the right. If this number is larger than the number in the box on line 1, the simplified TEE may be ended under WAC 173-340-7292(2) (a) (ii).	9

Exhibit 6-1: Simplified Terrestrial Ecological Evaluation – Exposure Analysis Procedures MTCA Table 749-1

Due to the approximately 3 acres of contiguous undeveloped areas on the west of the Site and to the north and south of the Site adjacent to the LDW, the TEE process was not able to be ended after completing Table 749-1. Since there are no Endangered Species that are present on the Site as assessed by a Shannon & Wilson biologist and discussed above, the Simplified TEE assessment could be continued using values protective of wildlife exposure for industrial/commercial properties as laid out in WAC 193-340-900 Table 749-2. The values provided in Table 749-2 are less stringent than most of the screening levels used to screen the soil at the Site. Therefore, the most stringent screening levels are protective of the TEE pathway for most of the chemicals that are listed in Table 749-2, and those chemicals are excluded from further TEE assessment. Using values in Table 749-2, soil cleanup levels protective of wildlife exposure were exceeded for chromium, lead, selenium, and vanadium. The direct contact value for lead is just slightly above the TEE value and is also exceeded.

However, alternative values for chromium, selenium, and vanadium are not exceeded. These three metals are retained as soil COPCs because they exceed the TEE value.

The occurrence and distribution of soil exceedances of the cleanup levels protective of wildlife exposure are as follows:

- Lead has exceeded the TEE (and direct contact) value at areas along the shoreline, in the unpaved storage area in the southwest corner of the Site, at MW-37, and in the area referred to as the shoreline wedge.
- Chromium, selenium, and vanadium occur throughout the Site in both paved and undeveloped areas.

In areas where exceedances are beneath pavement, wildlife are isolated from potential exposure to COPCs in that soil. Since there are areas where the soil cleanup levels that are protective of wildlife exposure are exceeded beneath pavement, in accordance with WAC 173-340-7290(4)(b), an institutional control will be used to maintain the pavement in areas where pavement is currently present. In areas where exceedances are beneath gravel, wildlife have a potential to be exposed to those specific COPCs. If pavement is added to these areas in the future, and an institutional control is used to maintain the pavement, these compounds can be eliminated as COPCs.

6.5 Retained Chemicals of Potential Concern

As summarized in Table 37, the following compounds have been retained as COPCs:

- TPH-D: Retained in soil and groundwater at Area 1, Area 2, Area 4, the Storage Area in the southwest corner of the Site, and in the northwest corner of the Site. Retained in soil south of Boeing OA-11. Retained in groundwater at the Steam Clean Area.
- TPH-O: Retained in soil and groundwater at Area 1, Area 2, Area 4, and at the Storage Area in the southwest corner of the Site. Retained in soil in the northwest corner of the Site and south of Boeing OA-11. Retained in groundwater at the Steam Clean Area.
- TPH-G: Retained in soil and groundwater at Area 3 and within the Shipping Area. Retained in soil at Area 2, Area 4, and in the northwest corner of the Site.
- Benzene and ethylbenzene: Retained in soil and groundwater within the Shipping Area.
- PCBs: Retained in groundwater at MW-39 and MW-68. Retained in soil at four locations along the west end of the Site (SB2, SB4, JF-SB4NSW-9, and MW-54), at the Storage Area in the southwest corner of the Site, and south of Boeing OA-11.
- cPAHs: Retained in soil and groundwater within Area 2, Area 4, and within the Steam Clean Area. Within these areas, cPAHs are co-located with petroleum contamination. Only detected above screening levels on more than one occasion within samples taken

from MW-10R, MW-46, MW-64, and MW-73. Retained in soil near the 2013 SB4 excavation, and in the shoreline wedge.

- Acenaphthene: Retained in groundwater at Area 1 (MW-31) and Area 2 (MW-60). Acenaphthene is co-located with petroleum contamination.
- Naphthalene: Retained in soil and groundwater at the Steam Clean Area, the Shipping Area, and in the northwest corner of the Site (MW-69). Naphthalene is co-located with petroleum contamination.
- BEHP: Retained in soil and groundwater; however, it should be noted that no sources of BEHP have been identified at the Site. Though retained as a COPC, its presence may not associated with Site activities.
- 1,4-dichlorobenzene: Retained in groundwater at the northwest corner of the Site (MW-69). 1,4-dichlorobenzene is co-located with petroleum contamination.
- Arsenic: Retained as a soil COPC throughout the Site. In general, exceedances of the most stringent screening level (7.3 mg/kg, based on background and direct contact) were low but widespread. In some areas, more significant exceedances were identified with the highest detections occurred at SB3 and SB6, along the shoreline. Arsenic has been retained as a groundwater COPC at MW-6 (outside and north of the Melt Shop portion of the former main building), Area 3 (MW-8), Area 1 (MW-23, MW-24, MW-25, MW-57), Area 2 (MW-32, MW-36, MW-40, MW-41, MW-60, and MW-72), Shipping Area (MW-58), and at the Storage Area at the southwest corner of the Site (MW-68).
- Chromium, selenium, and vanadium: Retained in soil in unpaved areas of the Site due to exceedance of TEE-based screening levels. If these areas are paved in the future and an institutional control is established to ensure that pavement remains, these can be removed as COPCs.
- Hexavalent chromium: Retained in soil below the north end of the removed melt bag house slab. Retained in groundwater at MW-39.
- Copper: Retained in soil at Area 2 (MW-37 and MW-61) and within the Storage Area in the southwest corner of the Site. Retained in groundwater at Area 2 (MW-37, MW-61, and MW-72) and within the Storage Area in the southwest corner of the Site (MW-68).
- Lead: Retained in soil along the shoreline, in the shoreline wedge, in the Storage Area in the southwest corner of the Site, and at Area 2 (MW-37).
- Manganese: Retained in groundwater at Area 2 (MW-36 and MW-74), MW-65 (in the embayment), at the Storage Area in the southwest corner of the Site (MW-68), and in the northwest corner of the Site (MW-70).
- Nickel: Retained in groundwater at MW-65 (in the embayment) and at Area 2 (MW-73). Retained in soil at the Storage Area in the southwest corner of the Site, at SB3, and at SB6.
- Zinc: Retained in soil at the northwest corner of the Site and in the shoreline wedge.

- PFOS: Retained in groundwater and soil within the PFAS Release Area.
- PFOA: Retained in soil within the PFAS Release Area.

In addition to the COPCs listed above, benzene, TCE, and vinyl chloride groundwater impacts are associated with the adjacent Boeing Plant 2 facility to the north. They are retained as follows:

- Benzene: Retained in soil and groundwater at the northwest corner of the Site.
- TCE: Retained in groundwater at the northwest corner of the Site and at MW-49 (near north property boundary at the eastern end of the Site) due to recent detections within samples taken from MW-49 and MW-70. Samples taken from MW-23 (east-southeast of MW-49) historically contained elevated TCE, but detections within samples collected in 2017, 2018, and 2021 were below the screening level.
- Vinyl chloride: Retained in groundwater across the Site.

Figures have been generated for each of the retained COPCs except for cobalt, acenaphthene, 1,4-dichlorobenzene, and hexavalent chromium (due to limited exceedances). The figures include a soil and groundwater figure for each COPC (regardless of which media the compound was retained for). Within the figures (Figures 28A/B through 48A/B), all available data is presented for each sampling location. The soil figures present data with the depth that was sampled. Where a sample result corresponds to soil that has been excavated and removed from the Site, the sample depth is flagged with an "e". The groundwater figures present the data with the date that the sample was collected. Within the figures, samples in which the compound was detected are bolded. If the detection exceeds the screening level, an orange font color is used. If the compound was not detected, and the RL exceeds the screening level, a blue font color is used. Where an alternative screening level was selected during the COPC evaluation, that level is used within the figure.

6.6 Indicator Hazardous Substances

As defined in MTCA (173-340-708), chemicals that contribute a small percentage of the overall threat to human health and the environment may be eliminated from consideration. The remaining chemicals are the indicator hazardous substances that are used for defining the site cleanup requirements. The COPCs that are not selected as indicator hazardous substances will not drive the remediation approach but will be reduced or removed by addressing those chemicals that are indicator hazardous substances in soil or groundwater. The indicator hazardous substances are the chemicals that will be the focus of the remedial actions. The selected indicator hazardous substances for the Site are as follows:

- TPH-G, TPH-D and TPH-O are present on the Site in various areas and at a range of concentrations. For this reason, TPH-G, TPH-D and TPH-O in their respective areas of concern are considered Site indicator hazardous substances.
- PCBs are present in discrete areas of the Site and are drivers for the remediation of the sediments in the adjacent LDW. Although limited in occurrence, PCBs are elevated above the screening levels in more than one location and are considered a Site indicator hazardous substance.
- PFOS has been detected in soil and groundwater above the screening value within the PFAS Release Area. PFOS is considered a Site indicator hazardous substance.

7 SUMMARY AND CONCLUSIONS

As would be expected for a manufacturing facility in operation for over 70 years, investigation work between 2020 and 2023 and prior investigations have identified impact to soil and groundwater across the Site. When the analytical results are compared to the most stringent screening levels established for the LDW (as is shown in Tables 11 through 34) a variety of compounds appear to be present at levels of concern. However, as demonstrated during the COPC evaluation (which considered RI data along with data collected prior to the RI), many of the compounds are eliminated as COPCs when factors such as screening level basis (Tables 9 and 10), spatial distribution, and temporal trends are taken into consideration. Additionally, several compounds are co-located with other compounds.

7.1 Areas of Concern

At most locations, observed impacts were low. The RI and past investigations have been used to identify the following areas of concern at the Site (Figure 27).

7.1.1 Area 1 Cutting Oil Contamination

Cutting oil is present within soil, groundwater, and as an LNAPL plume on groundwater within an area located at the northern end of the former main building (the Hollowbore Area). This area has been historically referred to as Area 1.

The area was successfully delineated during the RI. Based on their LIF readings, Columbia estimated that approximately 20,000 cubic yards of soil (combined between Area 1 and Area 2) likely have LNAPL with a petroleum hydrocarbon mass estimate of 390,000 kg within Area 1. Between 2018 and 2024, Star Forge removed equipment and tanks from within Area 1 and filled the vaults.

Acenaphthene has been detected within groundwater samples taken from MW-31 at concentrations above the screening level on several occasions since 2008. The concentrations appear to be reducing; during the RI, acenaphthene was detected at slightly above the screening level within only one of four samples. Acenaphthene has been retained as a groundwater COPC within Area 1 but appears to be reducing to below screening levels.

Arsenic has been detected at concentrations above screening levels within groundwater samples taken from within and surrounding the Area 1 plume. Though these detections may be associated with TPH-degradation-related changes to the pH and Eh, arsenic has been retained as a COPC in Area 1.

COPCs within Area 1 include TPH-D and TPH-O in soil and groundwater, acenaphthene in groundwater, and arsenic in groundwater (within and surrounding Area 1). During the COPC evaluation, some compounds with detections at concentrations above screening levels were eliminated as COPCs within Area 1 as outlined within Sections 6.1 and 6.2, and detailed in Table 39. When empirical demonstration was used, it relied upon data collected from numerous wells located within and surrounding the area with groundwater data from up to four sampling events conducted in 2021 and/or data collected from previous investigations dating back to as early as the 1990s. The laboratory reporting limits attained during the sampling events were taken into consideration.

Indicator Hazardous Substances: TPH-D and TPH-O in soil and groundwater.

7.1.2 Area 2 Hydraulic Oil and Diesel Contamination

Hydraulic oil and diesel are present within soils, groundwater, and as a commingled LNAPL plume on groundwater within an area at the southeastern end of the former main building and extending to below the former AHTB to the east. Gasoline has also been detected to a lesser extent, with soil detections exceeding screening levels. This area has been historically referred to as Area 2.

The area was successfully delineated during the RI. Based on their LIF readings, Columbia estimated that approximately 20,000 cubic yards of soil (combined between Area 1 and Area 2) likely have LNAPL with a petroleum hydrocarbon mass estimate of 28,000 kg within Area 2. Between 2018 and 2024, Star Forge removed equipment and tanks from within Area 2, and filled or covered the vaults. During removal of the Decommissioned Diesel Storage Area USTs and vault, confirmation samples identified an additional area of soil impact, including TPH-D, cPAHs, and, to a lesser extent, TPH-G. In some locations, the TPH-D concentrations were indicative of LNAPL.

Groundwater samples taken from MW-60 contained acenaphthene at elevated concentrations within groundwater samples taken from MW-60. Total cPAH TEQ values calculated for samples taken from MW-64 exceeded the screening level.

Arsenic, copper, manganese, nickel, and lead have been detected at concentrations above screening levels within groundwater samples taken from within and surrounding the Area 1 plume. Though these detections may be associated with TPH-degradation-related changes to the pH and Eh, they have been retained as groundwater COPCs in Area 1. Of these metals, copper and lead have also been retained as soil COPCs.

COPCs within Area 2 include TPH-D, TPH-O, and cPAHs in soil and groundwater; TPH-G in soil; acenaphthene in groundwater; arsenic, copper, manganese, and nickel in groundwater (within and surrounding Area 2); and copper and lead in soil. During the COPC evaluation, some compounds with detections at concentrations above screening levels were eliminated as COPCs within Area 2 as outlined within Sections 6.1 and 6.2, and detailed in Table 39. When empirical demonstration was used, it relied upon data collected from numerous wells located within and surrounding the area with groundwater data from up to four sampling events conducted in 2021 and/or data collected from previous investigations dating back to as early as the 1990s. The laboratory reporting limits attained during the sampling events were taken into consideration.

Indicator Hazardous Substances: TPH-D, and TPH-O in soil and groundwater. TPH-G in soil.

7.1.3 Area 3 Former Gasoline Underground Storage Tanks

TPH-G and benzene impacted soil remains present below the base of the excavations completed during removal of the three gasoline USTs at the eastern end of the Site. During the RI, impacts were encountered at the water table (approximately 10.7 feet bgs) and dissipated to below screening levels within the 15 feet bgs samples. TPH-G was detected above soil screening levels below the northernmost and center USTs, with higher concentrations below the northernmost UST and only slight screening level exceedances observed below the center UST. Low levels of benzene (above the screening level) were detected below the center and southernmost USTs. Though the historical maximum soil benzene concentration was measured within a sample taken from below the northernmost UST (sample T3-8, collected prior to remediation using in situ air injection and vapor extraction), samples taken during the RI from boring SB-2021-033, completed near historical sample T3-8, did not contain detectable benzene.

During the RI, TPH-G was detected in soil at a maximum concentration of 1,420 mg/kg (sample taken from 11 feet bgs at boring SB-2021-033) below the northernmost UST. The

historical maximum concentration of 1,500 mg/kg was measured within a 9.5 feet bgs sample taken below the center UST (sample T2-10, collected prior to remediation using in situ air injection and vapor extraction). Samples taken during the RI from boring SB-2021-034, completed near historical sample T2-10, identified significantly lower TPH-G concentrations of up to 179 J* mg/kg. The concentration measured at SB-2021-033 is above the LNAPL saturation concentration but below the residual saturation concentrations for gasoline, suggesting that free product is present but immobile. TPH-G was detected in groundwater at concentrations up to 2,960 µg/L. Only one groundwater sample collected during the RI exceeded the screening level of 1,000 µg/L. The sample was collected at MW-4, which is located adjacent to the northernmost UST (where the highest soil concentrations were measured). Groundwater TPH-G concentrations were seasonal, with the highest concentrations observed during dry season sampling events. Though TPH-G was detected in groundwater samples taken from MW-3 (adjacent to the center UST excavation), the detections were below screening levels. At this location, it appears that the soil is not impacting groundwater at levels of concern.

Groundwater samples taken from well MW-8, downgradient of the area, contained total and dissolved arsenic at concentrations above screening levels during two of the four sampling events completed in 2021. Though these detections may be associated with TPH-degradation-related changes to the pH and Eh, arsenic has been retained as a groundwater COPC in Area 3.

COPCs in Area 3 include TPH-G in soil and groundwater at the northernmost UST excavation; TPH-G in soil at the center UST excavation; and arsenic in groundwater at MW-8. During the COPC evaluation, some compounds with detections at concentrations above screening levels were eliminated as COPCs within Area 3 as outlined within Sections 6.1 and 6.2, and detailed in Table 39. When empirical demonstration was used, it relied upon data collected from wells MW-3, MW-4, and MW-8, located within and downgradient from the area with groundwater data from up to four sampling events conducted in 2021 and/or data collected from previous investigations dating back to as early as the 1990s. The laboratory reporting limits attained during the sampling events were taken into consideration.

Indicator Hazardous Substances: TPH-G in soil and groundwater at northernmost UST excavation. TPH-G in soil at the center UST excavation.

7.1.4 Area 4 Decommissioned Oil Storage Area

Soil and groundwater samples collected during the RI did not identify impacts within the area surrounding the Decommissioned Oil Storage Area except for low detections of cPAHs

in soil and groundwater at MW-10R (above the screening level) and the continued but reducing presence of TPH-D and TPH-O within groundwater at MW-11 and MW-14.

When Star Forge removed the tanks and vault from the Decommissioned Oil Storage Area in 2024, impacts were identified (TPH-D, TPH-O, TPH-G, and cPAHs) within excavation base and sidewall samples, consistent with releases from the Oil Recovery Area at the south end of the Decommissioned Oil Storage Area, releases during tank filling operations, and a release from the piping immediately adjacent to the area. As discussed in Section 4.6.3, the vertical extent of soil impacts within this area appear to be limited.

COPCs in Area 4 include TPH-D, TPH-O, and cPAHs in soil and groundwater; and TPH-G in soil. During the COPC evaluation, some compounds with detections at concentrations above screening levels were eliminated as COPCs within Area 4 as outlined within Sections 6.1 and 6.2, and detailed in Table 39. When empirical demonstration was used, it relied upon data collected from wells MW-10, MW-10R, MW-11, MW-14, and MW-62, located within and downgradient from the area with groundwater data from up to four sampling events conducted in 2021 and/or data collected from previous investigations dating back to as early as the 1990s. The laboratory reporting limits attained during the sampling events were taken into consideration.

Indicator Hazardous Substances: TPH-D, and TPH-O in soil and groundwater. TPH-G in soil.

7.1.5 Shipping Area

Elevated concentrations of benzene, ethylbenzene, and naphthalene were detected in soil and groundwater samples taken from MW-58 in the Shipping Area. The samples were not analyzed for TPH-G. The highest soil detections were measured within the sample taken from 8.4 feet bgs, near the water table, suggesting that the soil impacts may be associated with the groundwater contamination at this location. Soil and groundwater samples taken from MW-58 were not analyzed for TPH-G.

Elevated total and dissolve arsenic concentrations were detected within groundwater samples taken from MW-58. Though these detections may be associated with TPH-degradation-related changes to the pH and Eh (potentially associated with the nearby Area 1 plume), arsenic has been retained as a groundwater COPC within the Shipping Area.

The source of the groundwater contamination at MW-58 is unclear, but appears to be associated with a release in the Shipping Area. Samples taken from nearby well MW-9 (located to the east-southeast, between MW-58 and the Area 3 Gasoline USTs) have not contained benzene, ethylbenzene, or naphthalene at detectable concentrations. The extent of

the contamination within the Shipping Area is not defined; the adjacent LNAPL plume to the west makes sampling for VOCs in groundwater impracticable. Samples from beyond the Area 1 plume to the west did not contain benzene.

Because TPH-G was not analyzed, and benzene is present at elevated levels, TPH-G has been retained as a COPC in soil and groundwater within this area.

COPCs in the Shipping Area include TPH-G, benzene, ethylbenzene, and naphthalene in soil and groundwater; and arsenic in groundwater. During the COPC evaluation, some compounds with detections at concentrations above screening levels were eliminated as COPCs within the Shipping Area as outlined within Sections 6.1 and 6.2, and detailed in Table 39. When empirical demonstration was used, it relied upon data collected from well MW-58, located within the area with groundwater data from four sampling events conducted in 2021. The laboratory reporting limits attained during the sampling events were taken into consideration.

Indicator Hazardous Substances: TPH-G in soil and groundwater.

7.1.6 Storage Area

Shallow soil impacts were observed within the storage area at the southwest corner of the Site. Groundwater impacts were present at MW-68. This area was historically unpaved, but was paved in 2024.

TPH-D and TPH-O were detected at concentrations above screening levels within soil samples taken from depths between 1 and 5.5 feet bgs from SB-2021-068, with the highest detections occurring at 1 foot bgs. Groundwater samples taken from MW-68, located adjacent to SB-2021-068, contained TPH-D and TPH-O at concentrations above screening levels.

The 1 foot bgs sample at SB-2021-068 contained PCBs at 1.4 mg/kg. As shown in Figure 32A, similar concentrations (1.62 mg/kg) were measured within a sample taken from 4 to 6 feet bgs at boring SB7, completed in this area in 2004. One of three groundwater samples taken from monitoring well MW-68 during the RI contained PCBs at 0.00300 J µg/L.

Several metals were detected within the area at concentrations above soil screening levels; the concentrations reduced quickly with depth. Arsenic, copper, lead, and nickel have been retained as soil COPCs. Due to exceedances at MW-68, arsenic, copper, and manganese are retained as groundwater COPCs within the area.

COPCs in the Storage Area include TPH-D, TPH-O, and PCBs in soil and groundwater; copper, lead, and nickel in soil; and arsenic, copper, and manganese in groundwater.

During the COPC evaluation, some compounds with detections at concentrations above screening levels were eliminated as COPCs within the Storage Area as outlined within Sections 6.1 and 6.2, and detailed in Table 39. When empirical demonstration was used, it relied upon data collected from wells MW-67 and MW-68, located within the area with groundwater data from up to four sampling events conducted in 2021. The laboratory reporting limits attained during the sampling events were taken into consideration.

Indicator Hazardous Substances: TPH-D, TPH-O, and PCBs in soil and groundwater.

7.1.7 Steam Clean Area

Investigations completed during the RI within and around the Steam Clean Area did not identify significant soil impacts; however, minor soil and groundwater impacts have been identified. Samples taken from MW-46 taken from 2017 through 2021 contained TPH-D, TPH-O, and TPH-G. TPH-D concentrations have exceeded the screening level within three of six samples, and TPH-O concentrations have exceeded the screening level in one sample. TPH-G concentrations were below the screening level. TPH-D, TPH-O, and TPH-G have not been detected at concentrations above screening levels within soil samples taken from this area.

Soil and groundwater samples taken from the area have also contained cPAHs and naphthalene at concentrations above screening levels.

COPCs in the Steam Clean Area include TPH-D and TPH-O in groundwater, and naphthalene and cPAHs in soil and groundwater. During the COPC evaluation, some compounds with detections at concentrations above screening levels were eliminated as COPCs within the Steam Clean Area as outlined within Sections 6.1 and 6.2, and detailed in Table 39. When empirical demonstration was used, it relied upon data collected from well MW-46, located within the area with groundwater data from up to four sampling events conducted in 2021 and/or data collected from previous investigations dating back to as early as the 2009. The laboratory reporting limits attained during the sampling events were taken into consideration.

Indicator Hazardous Substances: TPH-D and TPH-O in groundwater.

7.1.8 Northwest Corner

Boeing's Area 2-66 sheet pile is located adjacent to the northwestern corner of the Site. Groundwater impacts have been identified on Boeing property in this area, including chlorinated VOCs, BTEX, naphthalene, metals, cyanide, TPH-G, TPH-D, and PCBs, as discussed in Section 1.6.1 and Appendix B Section 1.11.1.

During the RI, TPH-G was detected above its screening level within an 11 feet bgs sample taken from SB-2021-014, located near the northern property boundary. Other TPH-G, TPH-D, and TPH-O detections were noted in the area, primarily within samples taken from near the water table, but at low concentrations (below screening levels).

During previous investigation, most screening level exceedances occurred within samples taken from near the water table (including the maximum TPH-G detection of 5,200 mg/kg measured within a 10 to 12 feet bgs sample), suggesting that impacted groundwater may be responsible for the soil detections.

TPH-D and to a lesser extent TPH-O have been detected above screening levels in this area. Shallower soil impacts were measured within samples taken from one boring (SB-07233R, located north of the CAA) in 2003. TPH-D and TPH-O were measured at concentrations above screening levels within samples taken from between 6 and 16 feet bgs and from between 6 and 14 feet bgs, respectively. The highest TPH-D (9,000 mg/kg) and TPH-O (19,000 J mg/kg) detections were measured within the sample taken from between 6 and 8 feet bgs.

TPH-G and TPH-D (to a lesser extent) have historically been measured above screening levels in groundwater within the area. During the RI, petroleum groundwater screening level exceedances were limited to TPH-D detections with samples taken from MW-69 (four samples) and deep well MW-70 (within a single sample). Based on their location and the available soil data, these groundwater impacts appear to be associated with the adjacent property to the north (Boeing Plant 2). Benzene was also detected above its screening level within samples taken from MW-69, and was historically detected at wells PL2-JF01A and PL2-JF01AR in this area (both were located southwest of MW-69 and MW-70). Samples taken from PLW-JF01AR appeared to be showing a reducing trend; however, the last sample taken from the well (in 2013) contained benzene above the screening level. Though present within groundwater at MW-69 and historically at PL2-JF01AR, soil benzene concentrations have been very low in this area (though above screening levels). Though the distribution of benzene detections in soil suggest that off-site groundwater migrating onto the Site is responsible for the soil concentration, benzene is retained as a COPC in soil in this area.

During the RI, one sample taken from deep well MW-70 contained elevated TCE concentrations. Groundwater samples taken from shallow wells did not contain TCE at concentrations above screening levels. Three groundwater samples taken from MW-69 during the RI contained 1,4-dichlorobenene at concentrations just above the screening level.

Elevated concentrations of zinc have been detected within soil in this area, particularly within the JFOS footprint. Portions of the northwest corner of the Site are unpaved. For this reason, chromium, selenium, and vanadium are also retained in this area due to TEE exceedances.

COPCs in the: northwest corner of the Site include TPH-G, TPH-D, TPH-O, benzene, and zinc in soil; chromium, selenium, vanadium, and zinc in soil due to TEE; TPH-D and benzene in groundwater; naphthalene in soil and groundwater (MW-69); TCE in groundwater at MW-70; and 1,4-dichlorobenzene in groundwater at MW-69. Hydrocarbon and VOC soil and groundwater impacts in this area are believed to be associated with off- to on-site migration from the neighboring upgradient Boeing Plant 2 facility. During the COPC evaluation, some compounds with detections at concentrations above screening levels were eliminated as COPCs within the northwest corner of the Site as outlined within Sections 6.1 and 6.2, and detailed in Table 39. When empirical demonstration was used, it relied upon data collected from wells MW-5, MW-50, MW-51, MW-52, MW-69, MW-70, PL2-JF01A, PL2-JF01AR, PL2-JF01B, PL2-JF01C, and PL2-JF02A, located throughout the area with groundwater data from up to four sampling events conducted in 2021 and/or data collected from previous investigations dating back to the 1990s. The laboratory reporting limits attained during the sampling events were taken into consideration.

Indicator Hazardous Substances: TPH-G, TPH-D, and TPH-O in soil and groundwater.

7.1.9 Shoreline and Embayment

This area includes the area adjacent to the shoreline along the western extent of the Site and the footprint of the former embayment. It does not include the northwest and southwest corners of the Site or the shoreline wedge, which are each discussed separately.

Soil samples taken from along the shoreline and in the embayment have contained low levels of PCBs (typically below 0.2 mg/kg). PCBs were not detected in groundwater in this area (exception discussed below). The direct contact value of 1 mg/kg has been exceeded at four locations, including:

- The 0 to 2 feet bgs sample taken from SB3 in 2004. This soil was excavated in 2013 in advance of the Jorgensen EAA shoreline remediation work.
- Samples taken from SB4 in 2004. The upper 6 feet of soil was removed, but PCBs were detected above the screening level within soil samples taken from 12 to 14 feet bgs and from 14 to 16 feet bgs sample. This material remains on-site.
- Within a confirmation sample (JF-SB4NSW-9) from the excavation at SB4 (4 feet bgs north sidewall).
- Soil samples taken during the RI from 1 foot bgs and 5.5 feet bgs at the boring for MW-54 contained elevated PCBs. Deeper samples contained only low detections.

At SB2, a historic boring completed immediately adjacent to the top of bank, PCBs were detected within a 0 to 2 feet bgs sample, above the bank erosion screening level.

As mentioned above, groundwater in this area is not impacted with PCBs; however, during the RI, two of the four samples taken from MW-39 contained very low PCB detections. These detections are believed to be associated with particulates or other factors such as salinity. This well has been demonstrated to be influenced by the adjacent LDW. The detections at this location are not believed to be representative of the area. PCBs are retained as COPCs in this area in soil at the location of SB4, the north sidewall of the SB4 excavation (JF-SB4NSW-9), at MW-54, and at SB2. PCBs are retained in groundwater at MW-39.

Groundwater samples taken from this area have not contained cPAHs. Two confirmation soil samples taken from the 2013 SB4 excavation contained cPAHs at concentrations above the direct contact screening level. cPAHs are retained as a soil COPC in the vicinity of the SB4 excavation.

Several metals are retained as COPCs in soil and/or groundwater in this area, including arsenic, lead, nickel, manganese, chromium, selenium, and vanadium:

As shown in Figure 38A, arsenic has been detected at ***concentrations*** above the screening level at several locations in this area. The highest arsenic detections were measured within the 2 to 4 feet bgs samples at SB3 (this soil remains at the Site) and SB6. Total and dissolved arsenic were detected in groundwater samples taken from MW-6 at concentrations above the screening level.

- Lead is not a groundwater COPC at the Site. Lead has been detected in soil at concentrations above the TEE and direct contact soil screening values at several locations in this area, including at SB2, SB3 (removed), JF-SB3BA1-6 (removed), JF-SB4NSW-9, SB-4, SB-5, and MW-39. The highest lead detections were measured within the 0 to 2 feet bgs samples taken from SB3 and SB4, which have been excavated.
- Nickel has been detected in groundwater at concentrations above the screening level at MW-39 (two samples) and MW-65 (two samples).

Indicator Hazardous Substances: PCBs in the near shore area.

7.1.10 Per- and Polyfluoroalkyl Substances Release Area

Limited groundwater sampling completed during the RI and PFAS Investigation between 2021 and 2023 identified concentrations of PFAS in monitoring wells throughout the Site and within limited soil samples collected from the PFAS Release Area. PFOS was the only PFAS compound detected above the screening level within groundwater at the Site. PFOS

and PFOA were the only PFAS compounds detected within soil samples at concentrations above screening levels. The locations of PFOS exceedances in groundwater and soil were limited to the PFAS Release Area (Figure 21). PFOA soil exceedances were more dispersed, with exceedances noted at the borings for wells MW-77, MW-78, and MW-79. PFOA was not measured at concentrations above screening levels within groundwater samples.

The observed concentrations and locations of PFAS indicate a release or releases of AFFF from the vicinity of the 660-ton and/or 1,250-ton press pump rooms (Figure 21). The limited area of the Site with PFOS in groundwater at concentrations exceeding screening level is delineated by downgradient monitoring wells and cross-gradient monitoring wells with PFOS detected less than the screening level, and is over 800 feet from the LDW. PFAS-impacted groundwater extends to the southern property boundary, but the concentrations of PFAS at the property boundary are below the screening levels based on samples from wells MW-37, MW-38, and MW-77. PFAS compounds were detected below the screening levels in groundwater samples taken from upgradient monitoring wells (MW-8, MW-23, and MW-72) indicating that PFAS in groundwater is migrating onto the Site from upgradient sources. COPCs within the PFAS Release Area include PFOS in groundwater and soil, and PFOA in soil.

Indicator Hazardous Substances: PFOS in groundwater and soil.

7.1.11 South of Boeing OA-11

PCB-impacted soil is present on the Site within an area radiating out from the Boeing Plant 2 OA-11 Area of Discovery. Details on the OA-11 Area of Discovery are discussed in Section 4.24 and are shown in Figure 22. The most elevated PCB concentrations were found within a silt lense that has been observed on the Boeing property and the Site. TPH-D and TPH-O have also been detected in this area at concentrations above their screening levels. COPCs in this area include PCBs, TPH-D, and TPH-O in soil from the Boeing Plant 2 OA-11 Area of Discovery.

Indicator Hazardous Substances: PCBs, TPH-D, and TPH-O in soil.

7.2 Other Noteworthy Areas

7.2.1 Minor Release Areas

During the RI, isolated screening level exceedances (in soil or groundwater) were noted, as were some minor releases that appeared to be localized. These were not called out as areas of concern. Minor releases included:

- SB-2021-006 was completed within the Forge Shop. Nearby features included gear box pits that formerly housed gear boxes used for mechanical movement of furnaces and other equipment. Petroleum odor was noted within the boring beginning at 10 feet bgs (water table) and was no longer present at 15.6 feet bgs. A sample taken from 10 feet bgs from the boring contained elevated levels of TPH-D (23,400 JL* mg/kg) and TPH-G (3,480 mg/kg). TPH-O was also detected within the sample, but at below the screening level. Several PAHs were also detected above screening levels within the sample. Samples taken from 1.5, 6, and 20 feet bgs from this boring did not contain petroleum hydrocarbons above screening levels. Boring SB-2021-012 was completed to the west of this boring and, due to the odor noted during drill at SB-2021-006, an additional boring (SB-2021-047) was completed to the south-southwest of the exploration, outside of the building. Field indication of petroleum impact was not observed during drilling at SB-2021-012 and SB-2021-047 and samples collected from the borings did not contain petroleum hydrocarbons at concentrations above screening levels. Nearby monitoring well MW-38 (located southwest of the boring), has not contained petroleum hydrocarbons above screening levels. The petroleum impact noted at SB-2021-006 appears to be limited in extent.
- Several metals were measured at elevated levels within the shallowest sample taken from SB-2021-006 (1.5 feet bgs) but were not measured in deeper samples.
- SB-2020-004 was completed adjacent to the Q1/Q2/Q3 vault. TPH-D (4,260 mg/kg), TPH-O (5,210 mg/kg), and PCBs (0.0631 mg/kg) were measured within the 8 feet bgs sample (at the water table). Low PAH screening level exceedances were also identified. Petroleum hydrocarbons and PCBs were not detected above screening levels within other samples taken from the boring (from depth of 2.5, 13, 17, 21, and 27 feet bgs). The findings at this location were consistent with a minor release from the vault.
- During the LIF study, shallow responses were noted at LIF borings A1-22 (located on the southern edge of the Area 1 LNAPL extent in the Machine Shop) and A2-01 (located within the Area 2 LNAPL extent at the east end of the Forge Shop). These shallow responses are believed to be unrelated to the primary release and are likely associated with minor shallow releases. At the boring for MW-57, located south of the Area 1 LNAPL extent in the Machine Shop (approximately 20 to 30 feet east of A1-22), elevated TPH-D (4,420 mg/kg) was measured within the 5 feet bgs but was not above screening levels with a sample taken from 6 feet bgs.
- When the melt bag house was demolished in 2023, confirmation samples were collected from 1.5 feet bgs below the northern portion of the removed slab. As detailed in Section 4.18.2, two of four samples contained hexavalent chromium at concentrations above screening levels.

7.2.2 Off- to On-Site Migration of Halogenated Volatile Organic Compounds in Groundwater

Though not identified as a COPC in Site soil (Figure 37A), vinyl chloride has been detected above screening levels in groundwater samples taken from wells located across the Site, including wells screened within the deeper "B" zone. As shown in Figure 37B, the highest vinyl chloride groundwater concentrations have been detected in the northwest corner of the Site adjacent to Boeing's Area 2-66. The distribution and measured concentrations of vinyl chloride within groundwater samples taken from across the Site do not appear to be related to an on-site source.

Remedial activities were undertaken on the southwest corner of the Boeing property in the area where VOCs were at high concentrations as discussed in Appendix B Section 1.11.1. This remediation work has significantly reduced the VOC concentrations at the Site. During the RI, the highest vinyl chloride detections were measured (up to 2.96 µg/L) within samples taken from well MW-50 (in the northwest corner of the Site).

COPCs: Vinyl chloride in groundwater.

7.2.3 Shoreline Wedge

In 2014, a sediment removal action was completed in the Jorgensen EAA. Shoreline remedial activities were conducted concurrent with the sediment removal. Shoreline remedial activities included removal of debris, piles, and historical outfalls and excavation and removal of 3,670 cubic yards of soil and debris from the shoreline. The shoreline was graded to a 3 Horizontal to 1 Vertical slope and containment material was placed. The containment material included approximately 3,330 tons of granular activated carbon amended filter material (1.5-foot layer), approximately 5,050 tons of light loose riprap armor material (2.5-foot layer), and approximately 1,520 tons of habitat substrate (0.50-foot layer).

Following excavation and prior to placement of the containment material, six post-remediation samples were taken from along the shoreline. PCBs, metals (arsenic, chromium, copper, lead, and zinc), and cPAHs were detected within these samples at concentrations above screening levels. The samples were taken from 0 to 1 foot bgs, but now correlate to material below 4.5 feet of containment material and are isolated from human and terrestrial contact by the riprap armor material.

The highest PCB detections were measured at PEB-4 (11 mg/kg) and PEB-6 (1.6 mg/kg); the other detections ranged from 0.191 to 0.660 mg/kg (below the direct contact value of 1 mg/kg). Calculated total cPAH TEQ values for the samples taken from PEB-1 (0.630 mg/kg) and PEB-4 (0.226 mg/kg) were above the direct contact value of 0.19 mg/kg.

Metal screening level exceedances included:

- Arsenic was detected above the 7.3 mg/kg screening level within the samples taken from PEB-1 (9.9 mg/kg), PEB-4 (12.9 mg/kg), and PEB-6 (8 mg/kg).
- Chromium was detected above the 135 mg/kg (industrial/commercial TEE) screening level within the samples taken from PEB-3 (629 mg/kg), PEB-4 (481 mg/kg), and PEB-6 (1,130 mg/kg).
- Copper was detected above the 36 mg/kg screening level within the samples taken from PEB-1 (96.1 J mg/kg), PEB-3 (90.7 J mg/kg), (PEB-4 (95.5 J mg/kg), and PEB-6 (61.2 J mg/kg).
- Lead was detected above the 220 mg/kg (industrial/commercial TEE) and direct contact (250 mg/kg) screening levels at PEB-4 (806 J mg/kg) and PEB-6 (6,600 J mg/kg).
- Zinc was detected above the 570 mg/kg (industrial/commercial TEE) screening level at PEB-1 (3,880 mg/kg).

COPCs: PCBs, cPAHs, arsenic, chromium, copper, lead, and zinc at varying locations.

7.3 Data Gap Review

During RI Work Plan preparation, features from across the Site and relevant investigation findings were evaluated to identify data gaps to be addressed during the RI. The data gaps were documented within a table. Finding from the RI have been incorporated into the table (Table 40).

As demonstrated in Table 40, the RI adequately addressed the data gaps identified during the RI Work Plan preparation process.

7.4 Limitations

During the RI, EMJ installed wells that monitor contaminated groundwater that emanates from the adjacent properties owned and operated by Boeing. EMJ collected and analyzed water samples from these wells. EMJ does not appear to have an obligation to perform such activities under MTCA Revised Code of Washington 70.105D.020(22)(b)(iv), which excludes from the definition of a liable owner or operator any person who owns or operates property on which hazardous substances have come to be located solely as a result of passive migration through groundwater from another property. Pending further discussion with Ecology, EMJ reserves its right to exclude this Boeing-sourced groundwater contamination from further investigations, and does not commit to investigating, containing, or cleaning it up.

Similarly, EMJ investigated PCB contamination along the northern end of the Site that emanates from the Property Line Outfalls and/or the adjacent Boeing property. Pending further discussion with Ecology, EMJ reserves its right to exclude this contamination from further investigation, and does not commit to investigating, containing, or cleaning it up.

Finally, EMJ investigated a number of issues (e.g., AFFF spills, PCB penetration into asphalt in the waste storage area) that are or may be the responsibility of the current owner under Clean Closure requirements, the City of Tukwila's demolition permit requirements, AO DE21034 or other applicable requirements. Pending further discussion with Ecology, EMJ reserves its right to exclude these matters from further investigations, and does not commit to investigating, containing, or cleaning up associated contamination.

Within the limitations of scope, schedule, and budget, Shannon & Wilson has prepared this report in a professional manner, using the level of skill and care normally exercised for similar projects under similar conditions by reputable and competent environmental consultants currently practicing in this area.

The data presented in this report are based on limited research and sampling at the Site and should be considered representative at the time of our observations. Other areas of contamination could be present at the Site. Shannon & Wilson is not responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the report was prepared. We also note that the facts and conditions referenced in this report may change over time, and that the conclusions and recommendations set forth here are applicable to the facts and conditions as described only at the time of this report. Shannon & Wilson believes that the conclusions stated here are factual, but no guarantee is made or implied.

Shannon & Wilson has prepared the enclosed "Important Information About Your Geotechnical/Environmental Report" to assist you and others in understanding the use and limitations of our reports.

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Table 1A: Monitoring Well Status and Construction Details - Sorted by Well ID

Monitoring Well Identification	Date Installed	Installed By	Hydro-Stratigraphic Unit	Screened Interval (feet bgs)[1]	Top of Casing Elevation (feet NAVD88)[2]	Status[3]
MW-1	07/02/91	SEACOR	A	5-15	Unknown	Decommissioned (1991)
MW-2	07/02/91	SEACOR	A	5-15	Unknown	Decommissioned (unknown)
MW-3	05/21/91	SEACOR	A	4.5-19.75	17.327	Active
MW-4	05/21/91	SEACOR	A	4.75-20	17.449	Active
MW-5 (orig. MW-1)	02/28/90	D&M	A	10-20	17.03	Decommissioned (2013)
MW-6 (orig. MW-2)	02/28/90	D&M	A	10-20	20.59	Active
MW-7 (orig. MW-3)	02/28/90	D&M	A	10-20	20.813	Active
MW-8	10/10/91	SEACOR	A	5-20	17.662	Active
MW-9	03/19/92	SEACOR	A	5-20	17.774	Active
MW-10	03/19/92	SEACOR	A	5-20	17.57	Decommissioned (2017)
MW-10R	02/05/21	S&W	A	4-19	17.76	Active
MW-11	03/19/92	SEACOR	A	5-20	17.649	Active
MW-12	08/27/92	SEACOR	A	5-20	17.19	Decommissioned (2017)
MW-13	08/27/92	SEACOR	A	5-20	17.44	Decommissioned (2017)
MW-13R	02/04/21	S&W	A	4.2-19.2	17.75	Active, LNAPL
MW-14	08/27/92	SEACOR	A	5-20	17.603	Active
MW-15	08/27/92	SEACOR	A	5-20	17.608	Active
MW-16	08/29/92	SEACOR	A	6-16	17.695	Active, LNAPL
MW-17	03/04/93	SEACOR	A	8-23	17.566	Active, LNAPL
MW-18	08/29/92	SEACOR	A	6-15.75	17.466	Active, LNAPL
MW-19	08/28/92	SEACOR	A	6-16	17.916	Active, LNAPL
MW-20	08/28/92	SEACOR	A	6-16	18.22	Active, LNAPL
MW-21	08/28/92	SEACOR	A	6-16	17.881	Active, LNAPL
MW-22	08/28/92	SEACOR	A	6-15.75	16.98	Inaccessible, LNAPL
MW-22R	02/03/21	S&W	A	4.1-19.1	17.7	Active, LNAPL
MW-23	08/31/92	SEACOR	A	6-15.75	17.779	Active
MW-24	09/14/92	SEACOR	A	6-19.75	17.792	Active
MW-25	09/14/92	SEACOR	A	6-19.75	17.652	Active
MW-26	11/03/93	SEACOR	A	7-22	18.278	Active, LNAPL
MW-27	11/03/93	SEACOR	A	7-22	18.081	Active, LNAPL
MW-28	12/03/93	SEACOR	A	5-20	18.277	Active, LNAPL
MW-29	12/03/93	SEACOR	A	7-22	18.151	Active, LNAPL
MW-30	01/30/94	SEACOR	A	5-19.5	17.449	Active
MW-31	01/30/94	SEACOR	A	5-20	17.471	Active
MW-32	01/30/94	SEACOR	A	5-20	13.62	Active
MW-33	08/04/93	SEACOR	A	5-15	17.23	Decommissioned (2017)
MW-34	08/04/93	SEACOR	A	5-15	17.061	Active
MW-35	08/04/93	SEACOR	A	5-20	17.438	Active, LNAPL
MW-36	Unknown	Unknown	A	Unknown	17.383	Active
MW-37	09/02/09	Farallon	A	10-25	17.498	Active
MW-38	09/02/09	Farallon	A	5-20	17.384	Active
MW-39	11/02/09	Farallon	A	5-20	20.8	Active
MW-40	07/19/08	Farallon	A	10-25	17.148	Active

Table 1A: Monitoring Well Status and Construction Details - Sorted by Well ID

Monitoring Well Identification	Date Installed	Installed By	Hydro-Stratigraphic Unit	Screened Interval (feet bgs)[1]	Top of Casing Elevation (feet NAVD88)[2]	Status[3]
MW-41	07/19/08	Farallon	B	30-40	17.329	Active
MW-42	10/02/09	Farallon	A	5-20	17.484	Active
MW-43	10/02/09	Farallon	B	30-40	17.443	Active
MW-44	05/02/09	Farallon	B	50-60	17.072	Active
MW-45	05/02/09	Farallon	B	30-40	17.043	Active
MW-46	11/02/09	Farallon	A	5-20	17.67	Active
MW-47	11/02/09	Farallon	A	5-20	20.778	Active
MW-48	12/02/09	Farallon	A	5-17	17.241	Active
MW-49	02/13/09	Farallon	A	5-17	17.235	Active
MW-50	12/02/09	Farallon	A	23-27	17.635	Active
MW-51	12/02/09	Farallon	A	23-27	17.395	Active
MW-52	12/02/09	Farallon	A	23-27	17.594	Active
MW-53	02/03/21	S&W	A	5-20	17.53	Active
MW-54	02/04/21	S&W	A	5-20	17.84	Active
MW-55	02/03/21	S&W	A	4.2-19.2	18	Active
MW-56	02/02/21	S&W	A	5-20	17.95	Active
MW-57	01/27/21	S&W	A	5-20	17.83	Active
MW-58	01/27/21	S&W	A	4.4-19.4	17.95	Active
MW-59	02/03/21	S&W	A	4-19	17.95	Active
MW-60	02/01/21	S&W	A	3.75-19	17.56	Active
MW-61	02/01/21	S&W	A	5-20	17.91	Active
MW-62	01/28/21	S&W	A	4.5-19.5	17.78	Active
MW-63	01/29/21	S&W	A	5-20	17.76	Active
MW-64	01/29/21	S&W	B	45-60	17.77	Active
MW-65	02/05/21	S&W	A	4.5-19.5	18.11	Active
MW-66	01/25/21	S&W	A	4-19	18.16	Active
MW-67	01/26/21	S&W	A	5-20	17.33	Active
MW-68	02/02/21	S&W	A	5-18	18.3	Active
MW-69	02/03/21	S&W	A	5-20	17.99	Active
MW-70	02/03/21	S&W	B	45-60	17.81	Active
MW-71	02/04/21	S&W	A	4.5-19.5	18.08	Active
MW-72	02/02/21	S&W	A	4.5-19.5	18.2	Active
MW-73	02/02/21	S&W	A	4-19	17.66	Active
MW-74	02/02/21	S&W	A	4-19	17.89	Active
MW-75	01/28/21	S&W	A	5-20	17.86	Active
MW-76	01/26/21	S&W	A	5-20	17.98	Active
PL2-JF01A	Unknown	Unknown	A	Unknown	Unknown	Decommissioned (unknown)
PL2-JF01AR	09/05/01	Weston	A	23-27	16.88	Decommissioned (2013)
PL2-JF01B	03/21/95	Weston	B	40-50	16.97	Decommissioned (2013)
PL2-JF01C	09/05/01	Weston	C	74-78	17.08	Decommissioned (2013)
PL2-JF02A	09/21/95	Weston	A	8-23	17.81	Decommissioned (2013)
PL2-JF03A	09/21/95	Weston	A	8-23	17.95	Decommissioned (unknown)
PL2-JF04A	02/16/05	Weston	A	8-18	Unknown	Decommissioned (unknown)

Table 1A: Monitoring Well Status and Construction Details - Sorted by Well ID

Monitoring Well Identification	Date Installed	Installed By	Hydro-Stratigraphic Unit	Screened Interval (feet bgs)[1]	Top of Casing Elevation (feet NAVD88)[2]	Status[3]

NOTES:

Summarized conditions at the time of the Remedial Investigation.

1 Screened interval of monitoring well in feet below ground surface (bgs).

2 Elevation of top of casing in feet relative to NAVD88, surveyed by True North Land Surveying, Inc., Seattle, Washington, August 2017 and April 20, 2021, Bench Mark: 2" Brass Disc City of Seattle "3773-5101", located at the northeast corner of South 87th Street and East Marginal Way, Elevation 18.499 feet. 2017 and 2021 surveys did not include decommissioned or inaccessible wells (MW-1, MW-2, MW-5, MW-10, MW-12, MW-13, MW-22, MW-33, PL2-JF01A, PL2-JF01AR, PL2-JF01B, PL2-JF01C, PL2-JF02A, PL2-JF03A, and PLW-JF04A); MW-20; and MW-32. Elevations for these locations surveyed by PLS, Inc., Issaquah, Washington, August 2003 and March 2009, City of Seattle Benchmark No. SNV-5293.

3 Well status = status of monitoring well viability for monitoring and sampling:
Active = Monitoring well is currently viable for monitoring and sampling.
Decommissioned: Monitoring well has been decommissioned or abandoned and is no longer viable for monitoring and sampling. If known, year of decommissioning is shown in parentheses.
Inaccessible: Monitoring well is believed to have been paved over during recent paving activities.
LNAPL: Monitoring well contains measurable petroleum as LNAPL.

Shading indicates LNAPL observed in the well.

D&M = Dames & Moore; Farallon = Farallon Consulting, Inc.; LNAPL = light nonaqueous phase liquid; NAVD88 = North American Vertical Datum of 1988; orig. = originally; S&W = Shannon & Wilson

Table 1B: Monitoring Well Status and Construction Details - Sorted by Status

Monitoring Well Identification	Date Installed	Installed By	Hydro-Stratigraphic Unit	Screened Interval (feet bgs)[1]	Top of Casing Elevation (feet NAVD88)[2]	Status[3]
MW-3	05/21/91	SEACOR	A	4.5-19.75	17.327	Active
MW-4	05/21/91	SEACOR	A	4.75-20	17.449	Active
MW-6 (orig. MW-2)	02/28/90	D&M	A	10-20	20.59	Active
MW-7 (orig. MW-3)	02/28/90	D&M	A	10-20	20.813	Active
MW-8	10/10/91	SEACOR	A	5-20	17.662	Active
MW-9	03/19/92	SEACOR	A	5-20	17.774	Active
MW-10R	02/05/21	S&W	A	4-19	17.76	Active
MW-11	03/19/92	SEACOR	A	5-20	17.649	Active
MW-13R	02/04/21	S&W	A	4.2-19.2	17.75	Active, LNAPL
MW-14	08/27/92	SEACOR	A	5-20	17.603	Active
MW-15	08/27/92	SEACOR	A	5-20	17.608	Active
MW-16	08/29/92	SEACOR	A	6-16	17.695	Active, LNAPL
MW-17	03/04/93	SEACOR	A	8-23	17.566	Active, LNAPL
MW-18	08/29/92	SEACOR	A	6-15.75	17.466	Active, LNAPL
MW-19	08/28/92	SEACOR	A	6-16	17.916	Active, LNAPL
MW-20	08/28/92	SEACOR	A	6-16	18.22	Active, LNAPL
MW-21	08/28/92	SEACOR	A	6-16	17.881	Active, LNAPL
MW-22R	02/03/21	S&W	A	4.1-19.1	17.7	Active, LNAPL
MW-23	08/31/92	SEACOR	A	6-15.75	17.779	Active
MW-24	09/14/92	SEACOR	A	6-19.75	17.792	Active
MW-25	09/14/92	SEACOR	A	6-19.75	17.652	Active
MW-26	11/03/93	SEACOR	A	7-22	18.278	Active, LNAPL
MW-27	11/03/93	SEACOR	A	7-22	18.081	Active, LNAPL
MW-28	12/03/93	SEACOR	A	5-20	18.277	Active, LNAPL
MW-29	12/03/93	SEACOR	A	7-22	18.151	Active, LNAPL
MW-30	01/30/94	SEACOR	A	5-19.5	17.449	Active
MW-31	01/30/94	SEACOR	A	5-20	17.471	Active
MW-32	01/30/94	SEACOR	A	5-20	13.62	Active
MW-34	08/04/93	SEACOR	A	5-15	17.061	Active
MW-35	08/04/93	SEACOR	A	5-20	17.438	Active, LNAPL
MW-36	Unknown	Unknown	A	Unknown	17.383	Active
MW-37	09/02/09	Farallon	A	10-25	17.498	Active
MW-38	09/02/09	Farallon	A	5-20	17.384	Active
MW-39	11/02/09	Farallon	A	5-20	20.8	Active
MW-40	07/19/08	Farallon	A	10-25	17.148	Active
MW-41	07/19/08	Farallon	B	30-40	17.329	Active
MW-42	10/02/09	Farallon	A	5-20	17.484	Active
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MW-45	05/02/09	Farallon	B	30-40	17.043	Active
MW-46	11/02/09	Farallon	A	5-20	17.67	Active
MW-47	11/02/09	Farallon	A	5-20	20.778	Active
MW-48	12/02/09	Farallon	A	5-17	17.241	Active

Table 1B: Monitoring Well Status and Construction Details - Sorted by Status

Monitoring Well Identification	Date Installed	Installed By	Hydro-Stratigraphic Unit	Screened Interval (feet bgs)[1]	Top of Casing Elevation (feet NAVD88)[2]	Status[3]
MW-49	02/13/09	Farallon	A	5-17	17.235	Active
MW-50	12/02/09	Farallon	A	23-27	17.635	Active
MW-51	12/02/09	Farallon	A	23-27	17.395	Active
MW-52	12/02/09	Farallon	A	23-27	17.594	Active
MW-53	02/03/21	S&W	A	5-20	17.53	Active
MW-54	02/04/21	S&W	A	5-20	17.84	Active
MW-55	02/03/21	S&W	A	4.2-19.2	18	Active
MW-56	02/02/21	S&W	A	5-20	17.95	Active
MW-57	01/27/21	S&W	A	5-20	17.83	Active
MW-58	01/27/21	S&W	A	4.4-19.4	17.95	Active
MW-59	02/03/21	S&W	A	4-19	17.95	Active
MW-60	02/01/21	S&W	A	3.75-19	17.56	Active
MW-61	02/01/21	S&W	A	5-20	17.91	Active
MW-62	01/28/21	S&W	A	4.5-19.5	17.78	Active
MW-63	01/29/21	S&W	A	5-20	17.76	Active
MW-64	01/29/21	S&W	B	45-60	17.77	Active
MW-65	02/05/21	S&W	A	4.5-19.5	18.11	Active
MW-66	01/25/21	S&W	A	4-19	18.16	Active
MW-67	01/26/21	S&W	A	5-20	17.33	Active
MW-68	02/02/21	S&W	A	5-18	18.3	Active
MW-69	02/03/21	S&W	A	5-20	17.99	Active
MW-70	02/03/21	S&W	B	45-60	17.81	Active
MW-71	02/04/21	S&W	A	4.5-19.5	18.08	Active
MW-72	02/02/21	S&W	A	4.5-19.5	18.2	Active
MW-73	02/02/21	S&W	A	4-19	17.66	Active
MW-74	02/02/21	S&W	A	4-19	17.89	Active
MW-75	01/28/21	S&W	A	5-20	17.86	Active
MW-76	01/26/21	S&W	A	5-20	17.98	Active
MW-22	08/28/92	SEACOR	A	6-15.75	16.98	Inaccessible, LNAPL
MW-1	07/02/91	SEACOR	A	5-15	Unknown	Decommissioned (1991)
MW-2	07/02/91	SEACOR	A	5-15	Unknown	Decommissioned (unknown)
MW-5 (orig. MW-1)	02/28/90	D&M	A	10-20	17.03	Decommissioned (2013)
MW-10	03/19/92	SEACOR	A	5-20	17.57	Decommissioned (2017)
MW-12	08/27/92	SEACOR	A	5-20	17.19	Decommissioned (2017)
MW-13	08/27/92	SEACOR	A	5-20	17.44	Decommissioned (2017)
MW-33	08/04/93	SEACOR	A	5-15	17.23	Decommissioned (2017)
PL2-JF01A	Unknown	Unknown	A	Unknown	Unknown	Decommissioned (unknown)
PL2-JF01AR	09/05/01	Weston	A	23-27	16.88	Decommissioned (2013)
PL2-JF01B	03/21/95	Weston	B	40-50	16.97	Decommissioned (2013)
PL2-JF01C	09/05/01	Weston	C	74-78	17.08	Decommissioned (2013)
PL2-JF02A	09/21/95	Weston	A	8-23	17.81	Decommissioned (2013)
PL2-JF03A	09/21/95	Weston	A	8-23	17.95	Decommissioned (unknown)
PL2-JF04A	02/16/05	Weston	A	8-18	Unknown	Decommissioned (unknown)

Table 1B: Monitoring Well Status and Construction Details - Sorted by Status

Monitoring Well Identification	Date Installed	Installed By	Hydro-Stratigraphic Unit	Screened Interval (feet bgs)[1]	Top of Casing Elevation (feet NAVD88)[2]	Status[3]

NOTES:

Summarized conditions at the time of the Remedial Investigation.

1 Screened interval of monitoring well in feet below ground surface (bgs).

2 Elevation of top of casing in feet relative to NAVD88, surveyed by True North Land Surveying, Inc., Seattle, Washington, August 2017 and April 20, 2021, Bench Mark: 2" Brass Disc City of Seattle "3773-5101", located at the northeast corner of South 87th Street and East Marginal Way, Elevation 18.499 feet. 2017 and 2021 surveys did not include decommissioned or inaccessible wells (MW-1, MW-2, MW-5, MW-10, MW-12, MW-13, MW-22, MW-33, PL2-JF01A, PL2-JF01AR, PL2-JF01B, PL2-JF01C, PL2-JF02A, PL2-JF03A, and PLW-JF04A); MW-20; and MW-32. Elevations for these locations surveyed by PLS, Inc., Issaquah, Washington, August 2003 and March 2009, City of Seattle Benchmark No. SNV-5293.

3 Well status = status of monitoring well viability for monitoring and sampling:

Active = Monitoring well is currently viable for monitoring and sampling.

Decommissioned: Monitoring well has been decommissioned or abandoned and is no longer viable for monitoring and sampling. If known, year of decommissioning is shown in parentheses.

Inaccessible: Monitoring well is believed to have been paved over during recent paving activities.

LNAPL: Monitoring well contains measurable petroleum as LNAPL.

Shading indicates LNAPL observed in the well.

D&M = Dames & Moore; Farallon = Farallon Consulting, Inc.; LNAPL = light nonaqueous phase liquid; NAVD88 = North American Vertical Datum of 1988; orig. = originally; S&W = Shannon & Wilson

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-3	09/09/92	SECOR	14.05	11.55	—	0	2.50
MW-3	09/17/92	SECOR	14.05	11.61	—	0	2.44
MW-3	09/21/92	SECOR	14.05	11.61	—	0	2.44
MW-3	10/01/92	SECOR	14.05	11.58	—	0	2.47
MW-3	10/08/92	SECOR	14.05	11.61	—	0	2.44
MW-3	10/23/92	SECOR	14.05	11.62	—	0	2.43
MW-3	10/28/92	SECOR	14.05	—	—	—	—
MW-3	11/20/92	SECOR	14.05	11.11	—	0	2.94
MW-3	12/08/92	SECOR	14.05	10.84	—	0	3.21
MW-3	12/22/92	SECOR	14.05	10.36	—	0	3.69
MW-3	01/08/93	SECOR	14.05	10.38	—	0	3.67
MW-3	01/19/93	SECOR	14.05	10.45	—	0	3.60
MW-3	02/02/93	SECOR	14.05	10.12	—	0	3.93
MW-3	02/19/93	SECOR	14.05	10.21	—	0	3.84
MW-3	03/03/93	SECOR	14.05	10.72	—	0	3.33
MW-3	06/22/95	SECOR	14.05	11.01	—	0	—
MW-3	01/15/96	SECOR	14.05	9.35	—	0	—
MW-3	04/17/96	SECOR	14.05	10.86	—	0	—
MW-3	08/28/96	SECOR	14.05	11.8	—	0	—
MW-3	10/18-19/1999	URS	14.05	11.55	—	0	2.50
MW-3	01/05/00	URS	14.05	10.38	—	0	3.67
MW-3	5/2-3/2000	URS	14.05	—	—	—	—
MW-3	8/22-23/2000	URS	14.05	—	—	—	—
MW-3	12/12-13/2000	URS	14.05	11.23	—	0	2.82
MW-3	2/14-15/2001	URS	14.05	10.89	—	0	3.16
MW-3	04/09/02	Kane	14.05	10.65	—	0	3.40
MW-3	04/24/04	Kane	14.05	—	—	—	—
MW-3	05/18/05	Farallon	14.05	11.03	—	0	3.02
MW-3	12/13/05	Farallon	14.05	11.48	—	0	2.57
MW-3	05/18/06	Farallon	14.05	—	—	—	—
MW-3	01/11/07	Farallon	14.05	9.03	—	0	5.02
MW-3	07/31/07	Farallon	14.05	11.48	—	0	2.57
MW-3	01/29/08	Farallon	14.05	9.59	—	0	4.46
MW-3	02/23/09	Farallon	14.05	11.56	—	0	2.49
MW-3	05/19/09	Farallon	14.05	11.34	—	0	2.71
MW-3	08/25/09	Farallon	14.05	12.02	—	0	2.03
MW-3	12/09/09	Farallon	14.05	11.15	—	0	2.90
MW-3	09/29/15	PES	—	11.51	—	—	—
MW-3	08/15/17	S&W	17.33	11.21	—	0	6.12
MW-3	02/05/18	S&W	17.33	9.36	—	0	7.97
MW-3	03/08/21	S&W	17.327	9.51	—	—	7.817
MW-3	05/04/21	S&W	17.327	10.56	—	—	6.767
MW-3	08/16/21	S&W	17.327	11.18	—	—	6.147
MW-3	11/08/21	S&W	17.327	10.10	—	—	7.227
MW-4	09/09/92	SECOR	17.48	11.54	—	0	5.94
MW-4	09/17/92	SECOR	17.48	11.6	—	0	5.88
MW-4	09/21/92	SECOR	17.48	11.62	—	0	5.86
MW-4	10/01/92	SECOR	17.48	11.53	—	0	5.95
MW-4	10/08/92	SECOR	17.48	11.61	—	0	5.87
MW-4	10/23/92	SECOR	17.48	11.62	—	0	5.86
MW-4	10/28/92	SECOR	17.48	—	—	—	—

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-4	11/20/92	SECOR	17.48	11.12	—	0	6.36
MW-4	12/08/92	SECOR	17.48	10.88	—	0	6.60
MW-4	12/22/92	SECOR	17.48	10.58	—	0	6.90
MW-4	01/08/93	SECOR	17.48	10.67	—	0	6.81
MW-4	01/19/93	SECOR	17.48	10.73	—	0	6.75
MW-4	02/02/93	SECOR	17.48	10.43	—	0	7.05
MW-4	02/19/93	SECOR	17.48	10.62	—	0	6.86
MW-4	03/03/93	SECOR	17.48	10.96	—	0	6.52
MW-4	04/09/93	SECOR	17.48	14.93	—	0	2.55
MW-4	11/10/93	SECOR	17.48	15.59	—	0	1.89
MW-4	03/02/94	SECOR	17.48	14.33	—	0	3.15
MW-4	11/01/94	SECOR	17.48	15.46	—	0	2.02
MW-4	01/04/95	SECOR	17.48	13.55	—	0	3.93
MW-4	04/12/95	SECOR	17.48	14.14	—	0	3.34
MW-4	06/22/95	SECOR	17.48	15.04	—	0	2.44
MW-4	10/04/95	SECOR	17.48	15.18	—	0	2.30
MW-4	01/15/96	SECOR	17.48	12.82	—	0	4.66
MW-4	04/17/96	SECOR	17.48	14.92	—	0	2.56
MW-4	08/28/96	SECOR	17.48	15.5	—	0	1.98
MW-4	10/18/99	URS	17.48	11.65	—	0	5.83
MW-4	01/05/00	URS	17.48	10.47	—	0	7.01
MW-4	5/2-3/2000	URS	17.48	10.95	—	0	6.53
MW-4	8/22-23/2000	URS	17.48	11.7	—	0	5.78
MW-4	12/12-13/2000	URS	17.48	11.33	—	0	6.15
MW-4	2/14-15/2001	URS	17.48	10.99	—	0	6.49
MW-4	04/09/02	Kane	17.48	10.7	—	0	6.78
MW-4	04/24/04	Kane	17.48	10.38	—	0	7.10
MW-4	05/18/05	Farallon	17.48	11.11	—	0	6.37
MW-4	12/13/05	Farallon	17.48	11.56	—	0	5.92
MW-4	05/18/06	Farallon	17.48	11.18	—	0	6.30
MW-4	01/11/07	Farallon	17.48	9.47	—	0	8.01
MW-4	07/31/07	Farallon	17.48	11.63	—	0	5.85
MW-4	01/29/08	Farallon	17.48	9.67	—	0	7.81
MW-4	02/23/09	Farallon	17.48	11.65	—	0	5.83
MW-4	05/19/09	Farallon	17.48	11.42	—	0	6.06
MW-4	08/25/09	Farallon	17.48	12.12	—	0	5.36
MW-4	12/09/09	Farallon	17.48	11.23	—	0	6.25
MW-4	09/29/15	PES	—	11.58	—	—	—
MW-4	08/15/17	S&W	17.45	11.27	—	0	6.18
MW-4	02/05/18	S&W	17.45	9.48	—	0	7.97
MW-4	03/08/21	S&W	17.449	9.70	—	—	7.749
MW-4	05/04/21	S&W	17.449	10.65	—	—	6.799
MW-4	08/16/21	S&W	17.449	11.30	—	—	6.149
MW-4	11/08/21	S&W	17.449	10.26	—	—	7.189
MW-5	09/09/92	SECOR	17.03	13.33	—	0	3.70
MW-5	09/17/92	SECOR	17.03	12.78	—	0	4.25
MW-5	09/21/92	SECOR	17.03	10.9	—	0	6.13
MW-5	10/01/92	SECOR	17.03	11.75	—	0	5.28
MW-5	10/08/92	SECOR	17.03	14.18	—	0	2.85
MW-5	10/23/92	SECOR	17.03	13.2	—	0	3.83
MW-5	10/28/92	SECOR	17.03	—	—	—	—

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-5	11/20/92	SECOR	17.03	11.37	—	0	5.66
MW-5	12/08/92	SECOR	17.03	10.09	—	0	6.94
MW-5	12/22/92	SECOR	17.03	11.45	—	0	5.58
MW-5	01/08/93	SECOR	17.03	10.86	—	0	6.17
MW-5	01/19/93	SECOR	17.03	10.66	—	0	6.37
MW-5	02/02/93	SECOR	17.03	10.64	—	0	6.39
MW-5	02/19/93	SECOR	17.03	11.28	—	0	5.75
MW-5	03/03/93	SECOR	17.03	11.18	—	0	5.85
MW-5	10/18-19/1999	URS	17.03	8.11	—	0	8.92
MW-5	01/05/00	URS	17.03	10.15	—	0	6.88
MW-5	5/2-3/2000	URS	17.03	11.55	—	0	5.48
MW-5	8/22-23/2000	URS	17.03	—	—	—	—
MW-5	12/12-13/2000	URS	17.03	—	—	—	—
MW-5	2/14-15/2001	URS	17.03	14.57	—	0	2.46
MW-5	04/09/02	Kane	17.03	11.91	—	0	5.12
MW-5	04/10/03	Farallon	17.03	13.72	—	0	3.31
MW-5	04/24/04	Kane	17.03	11.72	—	0	5.31
MW-5	05/18/05	Farallon	17.03	11	—	0	6.03
MW-5	12/13/05	Farallon	17.03	12.4	—	0	4.63
MW-5	05/18/06	Farallon	17.03	13.75	—	0	3.28
MW-5	01/11/07	Farallon	17.03	10.88	—	0	6.15
MW-5	07/31/07	Farallon	17.03	15.75	—	0	1.28
MW-5	01/29/08	Farallon	17.03	8.3	—	0	8.73
MW-5	02/23/09	Farallon	17.03	—	—	—	—
MW-5	05/19/09	Farallon	17.03	14.01	—	0	3.02
MW-5	08/25/09	Farallon	17.03	10.99	—	0	6.04
MW-5	12/09/09	Farallon	17.03	9.15	—	0	7.88
MW-5	—	PES	—	—	—	—	—
MW-6	09/09/92	SECOR	20.61	15.61	—	0	5.00
MW-6	09/17/92	SECOR	20.61	15.73	—	0	4.88
MW-6	09/21/92	SECOR	20.61	15.68	—	0	4.93
MW-6	10/01/92	SECOR	20.61	15.46	—	0	5.15
MW-6	10/08/92	SECOR	20.61	15.51	—	0	5.10
MW-6	10/23/92	SECOR	20.61	15.61	—	0	5.00
MW-6	10/28/92	SECOR	20.61	—	—	—	—
MW-6	11/20/92	SECOR	20.61	15.48	—	0	5.13
MW-6	12/08/92	SECOR	20.61	14.19	—	0	6.42
MW-6	12/22/92	SECOR	20.61	15.16	—	0	5.45
MW-6	01/08/93	SECOR	20.61	14.85	—	0	5.76
MW-6	01/19/93	SECOR	20.61	13.98	—	0	6.63
MW-6	02/02/93	SECOR	20.61	14.41	—	0	6.20
MW-6	02/19/93	SECOR	20.61	14.03	—	0	6.58
MW-6	03/03/93	SECOR	20.61	14.6	—	0	6.01
MW-6	10/18-19/1999	URS	20.61	—	—	—	—
MW-6	01/05/00	URS	20.61	14.4	—	0	6.21
MW-6	5/2-3/2000	URS	20.61	—	—	—	—
MW-6	8/22-23/2000	URS	20.61	—	—	—	—
MW-6	12/12-13/2000	URS	20.61	—	—	—	—
MW-6	2/14-15/2001	URS	20.61	15.05	—	0	5.56
MW-6	04/09/02	Kane	20.61	—	—	—	—
MW-6	04/11/03	Farallon	20.61	13.57	—	0	7.04

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-6	04/24/04	Kane	20.61	—	—	—	—
MW-6	05/18/05	Farallon	20.61	14.07	—	0	6.54
MW-6	12/13/05	Farallon	20.61	14.59	—	0	6.02
MW-6	05/18/06	Farallon	20.61	14.1	—	0	6.51
MW-6	01/11/07	Farallon	20.61	12.27	—	0	8.34
MW-6	07/31/07	Farallon	20.61	14.5	—	0	6.11
MW-6	01/29/08	Farallon	20.61	12.36	—	0	8.25
MW-6	02/23/09	Farallon	20.61	14.19	—	0	6.42
MW-6	05/19/09	Farallon	20.61	14.15	—	0	6.46
MW-6	05/21/09	Farallon	20.61	14.14	—	0	6.47
MW-6	08/25/09	Farallon	20.61	15.18	—	0	5.43
MW-6	12/09/09	Farallon	20.61	13.56	—	0	7.05
MW-6	09/29/15	PES	—	14.74	—	—	—
MW-6	08/15/17	S&W	20.59	14.8	—	0	5.79
MW-6	02/05/18	S&W	20.59	12.88	—	0	7.71
MW-6	03/08/21	S&W	20.59	13.67	—	—	6.92
MW-6	05/04/21	S&W	20.59	14.34	—	—	6.25
MW-6	08/16/21	S&W	20.59	14.80	—	—	5.79
MW-6	11/08/21	S&W	20.59	13.27	—	—	7.32
MW-7	09/09/92	SECOR	20.84	15.05	—	0	5.79
MW-7	09/17/92	SECOR	20.84	15.1	—	0	5.74
MW-7	09/21/92	SECOR	20.84	15.11	—	0	5.73
MW-7	10/01/92	SECOR	20.84	14.99	—	0	5.85
MW-7	10/08/92	SECOR	20.84	15.11	—	0	5.73
MW-7	10/23/92	SECOR	20.84	15.1	—	0	5.74
MW-7	10/28/92	SECOR	20.84	—	—	—	—
MW-7	11/20/92	SECOR	20.84	14.62	—	0	6.22
MW-7	12/08/92	SECOR	20.84	14.93	—	0	5.91
MW-7	12/22/92	SECOR	20.84	14.12	—	0	6.72
MW-7	01/08/93	SECOR	20.84	14.23	—	0	6.61
MW-7	01/19/93	SECOR	20.84	14.28	—	0	6.56
MW-7	02/02/93	SECOR	20.84	14.01	—	0	6.83
MW-7	02/19/93	SECOR	20.84	14.23	—	0	6.61
MW-7	03/03/93	SECOR	20.84	14.52	—	0	6.32
MW-7	10/18-19/1999	URS	20.84	15.25	—	0	5.59
MW-7	01/05/00	URS	20.84	14.14	—	0	6.70
MW-7	5/2-3/2000	URS	20.84	—	—	—	—
MW-7	8/22-23/2000	URS	20.84	—	—	—	—
MW-7	12/12-13/2000	URS	20.84	—	—	—	—
MW-7	2/14-15/2001	URS	20.84	12.51	—	0	8.33
MW-7	04/09/02	Kane	20.84	—	—	—	—
MW-7	04/11/03	Farallon	20.84	14.19	—	0	6.65
MW-7	04/24/04	Kane	20.84	13.98	—	0	6.86
MW-7	05/18/05	Farallon	20.84	14.82	—	0	6.02
MW-7	12/13/05	Farallon	20.84	15.2	—	0	5.64
MW-7	05/18/06	Farallon	20.84	14.85	—	0	5.99
MW-7	01/11/07	Farallon	20.84	13.14	—	0	7.70
MW-7	07/31/07	Farallon	20.84	15.24	—	0	5.60
MW-7	01/29/08	Farallon	20.84	13.32	—	0	7.52
MW-7	02/23/09	Farallon	20.84	15.18	—	0	5.66
MW-7	05/19/09	Farallon	20.84	14.98	—	0	5.86

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-7	08/25/09	Farallon	20.84	15.65	—	0	5.19
MW-7	12/09/09	Farallon	20.84	14.78	—	0	6.06
MW-7	09/30/15	PES	—	15.09	—	—	—
MW-7	08/15/17	S&W	20.81	14.77	—	0	6.04
MW-7	02/05/18	S&W	20.81	12.99	—	0	7.82
MW-7	03/08/21	S&W	20.813	13.28	—	—	7.533
MW-7	05/04/21	S&W	20.813	14.18	—	—	6.633
MW-7	08/16/21	S&W	20.813	14.76	—	—	6.053
MW-7	11/08/21	S&W	20.813	13.66	—	—	7.153
MW-8	09/09/92	SECOR	17.70	11.81	—	0	5.89
MW-8	09/17/92	SECOR	17.70	11.86	—	0	5.84
MW-8	09/21/92	SECOR	17.70	11.88	—	0	5.82
MW-8	10/01/92	SECOR	17.70	11.76	—	0	5.94
MW-8	10/08/92	SECOR	17.70	11.87	—	0	5.83
MW-8	10/23/92	SECOR	17.70	11.87	—	0	5.83
MW-8	10/28/92	SECOR	17.70	—	—	—	—
MW-8	11/20/92	SECOR	17.70	11.38	—	0	6.32
MW-8	12/08/92	SECOR	17.70	11.13	—	0	6.57
MW-8	12/22/92	SECOR	17.70	10.87	—	0	6.83
MW-8	01/08/93	SECOR	17.70	10.95	—	0	6.75
MW-8	01/19/93	SECOR	17.70	11	—	0	6.70
MW-8	02/02/93	SECOR	17.70	10.73	—	0	6.97
MW-8	02/19/93	SECOR	17.70	10.9	—	0	6.80
MW-8	03/03/93	SECOR	17.70	11.24	—	0	6.46
MW-8	04/09/93	SECOR	17.70	15.15	—	0	2.55
MW-8	11/10/93	SECOR	17.70	15.77	—	0	1.93
MW-8	03/02/94	SECOR	17.70	14.53	—	0	3.17
MW-8	11/01/94	SECOR	17.70	15.57	—	0	2.13
MW-8	01/04/95	SECOR	17.70	13.64	—	0	4.06
MW-8	04/12/95	SECOR	17.70	14.38	—	0	3.32
MW-8	06/22/95	SECOR	17.70	15.29	—	0	2.41
MW-8	10/04/95	SECOR	17.70	15.41	—	0	2.29
MW-8	01/15/96	SECOR	17.70	13.6	—	0	4.10
MW-8	04/17/96	SECOR	17.70	14.92	—	0	2.78
MW-8	08/28/96	SECOR	17.70	15.58	—	0	2.12
MW-8	10/18-19/1999	URS	17.70	11.91	—	0	5.79
MW-8	01/05/00	URS	17.70	10.76	—	0	6.94
MW-8	5/2-3/2000	URS	17.70	11.2	—	0	6.50
MW-8	8/22-23/2000	URS	17.70	—	—	—	—
MW-8	12/12-13/2000	URS	17.70	11.58	—	0	6.12
MW-8	2/14-15/2001	URS	17.70	11.24	—	0	6.46
MW-8	04/09/02	Kane	17.70	11.02	—	0	6.68
MW-8	04/24/04	Kane	17.70	10.59	—	0	7.11
MW-8	05/18/05	Farallon	17.70	11.36	—	0	6.34
MW-8	12/13/05	Farallon	17.70	11.81	—	0	5.89
MW-8	05/18/06	Farallon	17.70	11.46	—	0	6.24
MW-8	01/11/07	Farallon	17.70	—	—	—	—
MW-8	07/31/07	Farallon	17.70	11.88	—	0	5.82
MW-8	01/29/08	Farallon	17.70	9.92	—	0	7.78
MW-8	02/23/09	Farallon	17.70	11.29	—	0	6.41
MW-8	05/19/09	Farallon	17.70	—	—	—	—

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-8	08/25/09	Farallon	17.70	12.35	—	0	5.35
MW-8	12/09/09	Farallon	17.70	11.49	—	0	6.21
MW-8	09/29/15	PES	—	11.85	—	—	—
MW-8	08/15/17	S&W	17.66	11.52	—	0	6.14
MW-8	02/05/18	S&W	17.66	9.75	—	0	7.91
MW-8	03/08/21	S&W	17.662	10.00	—	—	7.662
MW-8	05/04/21	S&W	17.662	10.94	—	—	6.722
MW-8	08/16/21	S&W	17.662	11.54	—	—	6.122
MW-8	11/08/21	S&W	17.662	10.51	—	—	7.152
MW-9	09/09/92	SECOR	17.79	11.88	—	0	5.91
MW-9	09/17/92	SECOR	17.79	11.92	—	0	5.87
MW-9	09/21/92	SECOR	17.79	11.93	—	0	5.86
MW-9	10/01/92	SECOR	17.79	11.82	—	0	5.97
MW-9	10/08/92	SECOR	17.79	11.91	—	0	5.88
MW-9	10/23/92	SECOR	17.79	11.93	—	0	5.86
MW-9	10/28/92	SECOR	17.79	—	—	—	—
MW-9	11/20/92	SECOR	17.79	11.43	—	0	6.36
MW-9	12/08/92	SECOR	17.79	11.17	—	0	6.62
MW-9	12/22/92	SECOR	17.79	—	—	—	—
MW-9	01/08/93	SECOR	17.79	11	—	0	6.79
MW-9	01/19/93	SECOR	17.79	11.04	—	0	6.75
MW-9	02/02/93	SECOR	17.79	10.76	—	0	7.03
MW-9	02/19/93	SECOR	17.79	10.95	—	0	6.84
MW-9	03/03/93	SECOR	17.79	11.28	—	0	6.51
MW-9	04/09/93	SECOR	17.79	15.12	—	0	2.67
MW-9	11/10/93	SECOR	17.79	15.75	—	0	2.04
MW-9	03/02/94	SECOR	17.79	14.51	—	0	3.28
MW-9	11/01/94	SECOR	17.79	15.54	—	0	2.25
MW-9	01/04/95	SECOR	17.79	13.58	—	0	—
MW-9	04/12/95	SECOR	17.79	14.16	—	0	—
MW-9	06/22/95	SECOR	17.79	15.08	—	0	—
MW-9	10/04/95	SECOR	17.79	15.21	—	0	—
MW-9	01/15/96	SECOR	17.79	13.49	—	0	—
MW-9	04/17/96	SECOR	17.79	14.23	—	0	—
MW-9	08/28/96	SECOR	17.79	15.21	—	0	—
MW-9	10/18-19/1999	URS	17.79	11.96	—	0	5.83
MW-9	01/05/00	URS	17.79	10.77	—	0	7.02
MW-9	5/2-3/2000	URS	17.79	11.23	—	0	6.56
MW-9	8/22-23/2000	URS	17.79	12.03	—	0	5.76
MW-9	12/12-13/2000	URS	17.79	11.66	—	0	6.13
MW-9	2/14-15/2001	URS	17.79	11.25	—	0	6.54
MW-9	04/09/02	Kane	17.79	11.05	—	0	6.74
MW-9	04/24/04	Kane	17.79	10.62	—	0	7.17
MW-9	05/18/05	Farallon	17.79	11.4	—	0	6.39
MW-9	12/13/05	Farallon	17.79	11.84	—	0	5.95
MW-9	05/18/06	Farallon	17.79	11.45	—	0	6.34
MW-9	01/11/07	Farallon	17.79	9.88	—	0	7.91
MW-9	07/31/07	Farallon	17.79	11.92	—	0	5.87
MW-9	01/29/08	Farallon	17.79	9.94	—	0	7.85
MW-9	02/23/09	Farallon	17.79	—	—	—	—
MW-9	05/19/09	Farallon	17.79	11.71	—	0	6.08

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-9	08/25/09	Farallon	17.79	12.78	—	0	5.01
MW-9	12/09/09	Farallon	17.79	11.5	—	0	6.29
MW-9	09/29/15	PES	—	11.86	—	—	—
MW-9	08/15/17	S&W	17.77	11.64	—	0	6.13
MW-9	02/05/18	S&W	17.77	9.84	—	0	7.93
MW-9	03/08/21	S&W	17.774	10.03	—	—	7.744
MW-9	05/04/21	S&W	17.774	10.18	—	—	7.594
MW-9	08/16/21	S&W	17.774	11.62	—	—	6.154
MW-9	11/08/21	S&W	17.774	10.55	—	—	7.224
MW-10	09/09/92	SECOR	17.57	11.8	—	0	5.77
MW-10	09/17/92	SECOR	17.57	11.85	—	0	5.72
MW-10	09/21/92	SECOR	17.57	11.84	—	0	5.73
MW-10	10/01/92	SECOR	17.57	11.71	—	0	5.86
MW-10	10/08/92	SECOR	17.57	11.83	—	0	5.74
MW-10	10/23/92	SECOR	17.57	11.83	—	0	5.74
MW-10	10/28/92	SECOR	17.57	—	—	—	—
MW-10	11/20/92	SECOR	17.57	11.34	—	0	6.23
MW-10	12/08/92	SECOR	17.57	11.05	—	0	6.52
MW-10	12/22/92	SECOR	17.57	10.85	—	0	6.72
MW-10	01/08/93	SECOR	17.57	10.62	—	0	6.95
MW-10	01/19/93	SECOR	17.57	10.19	—	0	7.38
MW-10	02/02/93	SECOR	17.57	10.69	—	0	6.88
MW-10	02/19/93	SECOR	17.57	10.9	—	0	6.67
MW-10	03/03/93	SECOR	17.57	11.18	—	0	6.39
MW-10	04/09/93	SECOR	17.57	14.87	—	0	—
MW-10	11/10/93	SECOR	17.57	15.52	—	0	—
MW-10	03/02/94	SECOR	17.57	14.29	—	0	—
MW-10	11/01/94	SECOR	17.57	15.33	—	0	—
MW-10	01/04/95	SECOR	17.57	13.67	—	0	—
MW-10	04/12/95	SECOR	17.57	14.24	—	0	—
MW-10	06/22/95	SECOR	17.57	15.05	—	0	—
MW-10	10/04/95	SECOR	17.57	15.13	—	0	—
MW-10	01/15/96	SECOR	17.57	13.72	—	0	—
MW-10	04/17/96	SECOR	17.57	14.24	—	0	—
MW-10	08/28/96	SECOR	17.57	15.1	—	0	—
MW-10	11/26/96	SECOR	17.57	14.53	—	0	—
MW-10	10/18-19/1999	URS	17.57	11.9	—	0	5.67
MW-10	01/05/00	URS	17.57	10.75	—	0	6.82
MW-10	5/2-3/2000	URS	17.57	11.23	—	0	6.34
MW-10	8/22-23/2000	URS	17.57	11.98	—	0	5.59
MW-10	12/12-13/2000	URS	17.57	11.56	—	0	6.01
MW-10	2/14-15/2001	URS	17.57	11.23	—	0	6.34
MW-10	04/09/02	Kane	17.57	10.89	—	0	6.68
MW-10	04/24/04	Kane	17.57	10.92	—	0	6.65
MW-10	05/18/05	Farallon	17.57	11.23	—	0	6.34
MW-10	12/13/05	Farallon	17.57	11.73	—	0	5.84
MW-10	05/18/06	Farallon	17.57	11.4	—	0	6.17
MW-10	01/11/07	Farallon	17.57	—	—	—	—
MW-10	07/31/07	Farallon	17.57	11.71	—	0	5.86
MW-10	01/29/08	Farallon	17.57	—	—	—	—
MW-10	02/23/09	Farallon	17.57	—	—	—	—

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-10	05/19/09	Farallon	17.57	10.05	—	0	7.52
MW-10	08/25/09	Farallon	17.57	12.22	—	0	5.35
MW-10	12/09/09	Farallon	17.57	10.35	—	0	7.22
MW-10	—	PES	—	—	—	—	—
MW-10R	03/08/21	S&W	17.76	7.21	—	—	10.55
MW-10R	05/04/21	S&W	17.76	7.66	—	—	10.10
MW-10R	08/16/21	S&W	17.76	8.29	—	—	9.47
MW-10R	11/08/21	S&W	17.76	7.98	—	—	9.78
MW-11	09/09/92	SECOR	17.70	11.85	—	0	5.85
MW-11	09/17/92	SECOR	17.70	11.9	—	0	5.80
MW-11	09/21/92	SECOR	17.70	11.92	—	0	5.78
MW-11	10/01/92	SECOR	17.70	11.79	—	0	5.91
MW-11	10/08/92	SECOR	17.70	11.92	—	0	5.78
MW-11	10/23/92	SECOR	17.70	11.91	—	0	5.79
MW-11	10/28/92	SECOR	17.70	—	—	—	—
MW-11	11/20/92	SECOR	17.70	11.42	—	0	6.28
MW-11	12/08/92	SECOR	17.70	11.17	—	0	6.53
MW-11	12/22/92	SECOR	17.70	10.93	—	0	6.77
MW-11	01/08/93	SECOR	17.70	11.01	—	0	6.69
MW-11	01/19/93	SECOR	17.70	11.04	—	0	6.66
MW-11	02/02/93	SECOR	17.70	10.78	—	0	6.92
MW-11	02/19/93	SECOR	17.70	10.97	—	0	6.73
MW-11	03/03/93	SECOR	17.70	11.29	—	0	6.41
MW-11	11/10/93	SECOR	17.70	15.6	—	0	—
MW-11	03/02/94	SECOR	17.70	14.36	—	0	—
MW-11	04/12/95	SECOR	17.70	14.24	—	0	—
MW-11	06/22/95	SECOR	17.70	15.13	—	0	—
MW-11	10/04/95	SECOR	17.70	15.19	—	0	—
MW-11	01/15/96	SECOR	17.70	13.6	—	0	—
MW-11	04/17/96	SECOR	17.70	14.46	—	0	—
MW-11	08/28/96	SECOR	17.70	14.79	—	0	—
MW-11	11/26/96	SECOR	17.70	14.26	—	0	—
MW-11	10/18-19/1999	URS	17.70	12	—	0	5.70
MW-11	01/05/00	URS	17.70	—	—	—	—
MW-11	5/2-3/2000	URS	17.70	—	—	—	—
MW-11	8/22-23/2000	URS	17.70	—	—	—	—
MW-11	12/12-13/2000	URS	17.70	11.65	—	0	6.05
MW-11	2/14-15/2001	URS	17.70	11.38	—	0	6.32
MW-11	04/09/02	Kane	17.70	—	—	—	—
MW-11	04/24/04	Kane	17.70	—	—	—	—
MW-11	05/18/05	Farallon	17.70	11.43	—	0	6.27
MW-11	12/13/05	Farallon	17.70	—	—	—	—
MW-11	05/18/06	Farallon	17.70	11.45	—	0	6.25
MW-11	01/11/07	Farallon	17.70	9.82	—	0	7.88
MW-11	07/31/07	Farallon	17.70	11.95	—	0	5.75
MW-11	01/29/08	Farallon	17.70	10	—	0	7.70
MW-11	02/23/09	Farallon	17.70	—	—	—	—
MW-11	05/19/09	Farallon	17.70	11.66	—	0	6.04
MW-11	08/25/09	Farallon	17.70	12.39	—	0	5.31
MW-11	12/09/09	Farallon	17.70	11.57	—	0	6.13
MW-11	09/29/15	PES	—	11.86	—	—	—

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-11	08/15/17	S&W	17.65	11.58	—	0	6.07
MW-11	02/05/18	S&W	17.65	9.78	—	0	7.87
MW-11	03/08/21	S&W	17.649	10.00	—	—	7.649
MW-11	05/04/21	S&W	17.649	10.92	—	—	6.729
MW-11	08/16/21	S&W	17.649	11.55	—	—	6.099
MW-11	11/08/21	S&W	17.649	10.50	—	—	7.149
MW-12	01/22/92	SECOR	17.19	10.58	—	0	6.61
MW-12	09/09/92	SECOR	17.19	11.56	—	0	5.63
MW-12	09/17/92	SECOR	17.19	11.53	—	0	5.66
MW-12	09/21/92	SECOR	17.19	11.55	—	0	5.64
MW-12	10/01/92	SECOR	17.19	11.4	—	0	5.79
MW-12	10/08/92	SECOR	17.19	11.59	—	0	5.60
MW-12	10/23/92	SECOR	17.19	11.54	—	0	5.65
MW-12	10/28/92	SECOR	17.19	—	—	—	—
MW-12	11/20/92	SECOR	17.19	11.05	—	0	6.14
MW-12	12/08/92	SECOR	17.19	10.77	—	0	6.42
MW-12	01/08/93	SECOR	17.19	10.65	—	0	6.54
MW-12	01/19/93	SECOR	17.19	10.65	—	0	6.54
MW-12	02/02/93	SECOR	17.19	10.42	—	0	6.77
MW-12	02/19/93	SECOR	17.19	10.61	—	0	6.58
MW-12	03/03/93	SECOR	17.19	10.93	—	0	6.26
MW-12	10/18-19/1999	URS	17.19	13.5	11.28	2.22	5.74
MW-12	01/05/00	URS	17.19	—	—	—	—
MW-12	5/2-3/2000	URS	17.19	13.01	10.84	2.17	6.19
MW-12	8/22-23/2000	URS	17.19	12.9	11.3	1.6	5.77
MW-12	12/12-13/2000	URS	17.19	12.89	11.03	1.86	6.02
MW-12	2/14-15/2001	URS	17.19	12.75	10.75	2	6.29
MW-12	04/09/02	Kane	17.19	13.51	11.57	1.94	5.47
MW-12	04/24/04	Kane	17.19	13.75	11.02	2.73	5.96
MW-12	05/18/05	Farallon	17.19	12.21	11	1.21	6.10
MW-12	12/13/05	Farallon	17.19	12.15	11.41	0.74	5.72
MW-12	05/18/06	Farallon	17.19	12.11	11.09	1.02	6.02
MW-12	07/31/07	Farallon	17.19	14.1	13.5	0.6	3.64
MW-12	01/29/08	Farallon	17.19	0	—	0	17.19
MW-12	02/23/09	Farallon	17.19	5.12	—	0	12.07
MW-12	05/19/09	Farallon	17.19	—	—	—	—
MW-12	08/25/09	Farallon	17.19	—	—	—	—
MW-12	12/09/09	Farallon	17.19	—	—	—	—
MW-13	09/09/92	SECOR	17.44	11.82	—	0	5.62
MW-13	09/17/92	SECOR	17.44	11.79	—	0	5.65
MW-13	09/21/92	SECOR	17.44	11.82	—	0	5.62
MW-13	10/01/92	SECOR	17.44	11.65	—	0	5.79
MW-13	10/08/92	SECOR	17.44	11.85	—	0	5.59
MW-13	10/23/92	SECOR	17.44	11.8	—	0	5.64
MW-13	10/28/92	SECOR	17.44	—	—	—	—
MW-13	11/20/92	SECOR	17.44	11.33	—	0	6.11
MW-13	12/08/92	SECOR	17.44	11	—	0	6.44
MW-13	12/22/92	SECOR	17.44	10.84	—	0	6.60
MW-13	01/08/93	SECOR	17.44	11.11	—	0.03*	—
MW-13	01/19/93	SECOR	17.44	10.87	—	0.08*	—
MW-13	02/02/93	SECOR	17.44	10.85	—	0.21	—

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-13	02/19/93	SECOR	17.44	11.58	—	0.78	—
MW-13	03/03/93	SECOR	17.44	11.96	—	0.84	—
MW-13	10/18-19/1999	URS	17.44	14.15	11.51	2.64	5.73
MW-13	01/05/00	URS	17.44	13.75	10.4	3.35	6.79
MW-13	5/2-3/2000	URS	17.44	14.06	10.88	3.18	6.32
MW-13	8/22-23/2000	URS	17.44	11.49	—	0	5.95
MW-13	12/12-13/2000	URS	17.44	13.61	11.22	2.39	6.04
MW-13	2/14-15/2001	URS	17.44	13.46	10.95	2.51	6.30
MW-13	04/09/02	Kane	17.44	14.8	11.71	3.09	5.50
MW-13	04/24/04	Kane	17.44	14.25	11.52	2.73	5.71
MW-13	05/18/05	Farallon	17.44	13.28	11.14	2.14	6.14
MW-13	12/13/05	Farallon	17.44	12.85	11.61	1.24	5.74
MW-13	05/18/06	Farallon	17.44	12.99	11.25	1.74	6.06
MW-13	04/13/07	Farallon	17.44	13.02	11.11	1.91	6.18
MW-13	07/31/07	Farallon	17.44	6.5	3.59	2.91	13.63
MW-13	01/29/08	Farallon	17.44	—	—	—	—
MW-13	02/23/09	Farallon	17.44	1.64	—	—	—
MW-13	05/19/09	Farallon	17.44	—	—	—	—
MW-13	08/25/09	Farallon	17.44	—	—	—	—
MW-13	12/09/09	Farallon	17.44	—	—	—	—
MW-13R	03/08/21	S&W	17.75	9.70	9.69	0.01	8.06
MW-13R	05/04/21	S&W	17.75	10.66	—	—	7.09
MW-13R	08/16/21	S&W	17.75	12.50	11.37	1.13	6.29
MW-13R	11/08/21	S&W	17.75	10.16	10.13	0.03	7.62
MW-14	09/09/92	SECOR	17.64	11.94	—	0	5.70
MW-14	09/17/92	SECOR	17.64	11.91	—	0	5.73
MW-14	09/21/92	SECOR	17.64	11.93	—	0	5.71
MW-14	10/01/92	SECOR	17.64	11.79	—	0	5.85
MW-14	10/08/92	SECOR	17.64	11.96	—	0	5.68
MW-14	10/23/92	SECOR	17.64	11.92	—	0	5.72
MW-14	10/28/92	SECOR	17.64	—	—	—	—
MW-14	11/20/92	SECOR	17.64	—	—	—	—
MW-14	12/08/92	SECOR	17.64	11.15	—	0	6.49
MW-14	12/22/92	SECOR	17.64	10.94	—	0	6.70
MW-14	01/08/93	SECOR	17.64	11.04	—	0	6.60
MW-14	01/19/93	SECOR	17.64	11.03	—	0	6.61
MW-14	02/02/93	SECOR	17.64	10.79	—	0	6.85
MW-14	02/19/93	SECOR	17.64	10.98	—	0	6.66
MW-14	03/03/93	SECOR	17.64	11.3	—	0	6.34
MW-14	10/18-19/1999	URS	17.64	—	—	—	—
MW-14	01/05/00	URS	17.64	11	—	0	6.64
MW-14	5/2-3/2000	URS	17.64	11.38	—	0	6.26
MW-14	8/22-23/2000	URS	17.64	12.02	—	0	5.62
MW-14	12/12-13/2000	URS	17.64	11.66	—	0	5.98
MW-14	2/14-15/2001	URS	17.64	11.43	—	0	6.21
MW-14	04/09/02	Kane	17.64	11.19	—	0	6.45
MW-14	04/24/04	Kane	17.64	—	—	—	—
MW-14	05/18/05	Farallon	17.64	11.44	—	0	6.20
MW-14	12/13/05	Farallon	17.64	11.88	—	0	5.76
MW-14	05/18/06	Farallon	17.64	11.5	—	0	6.14
MW-14	01/11/07	Farallon	17.64	8.82	—	0	8.82

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-14	07/31/07	Farallon	17.64	11.98	—	0	5.66
MW-14	01/29/08	Farallon	17.64	—	—	—	—
MW-14	02/23/09	Farallon	17.64	—	—	—	—
MW-14	05/19/09	Farallon	17.64	11.74	—	0	5.90
MW-14	08/25/09	Farallon	17.64	12.39	—	0	5.25
MW-14	12/09/09	Farallon	17.64	11.5	—	0	6.14
MW-14	09/29/15	PES	—	11.83	—	—	—
MW-14	08/15/17	S&W	17.60	11.58	—	0	6.02
MW-14	02/05/18	S&W	17.60	9.82	—	0	7.78
MW-14	03/08/21	S&W	17.603	9.80	—	—	7.803
MW-14	05/04/21	S&W	17.603	10.99	—	—	6.613
MW-14	08/16/21	S&W	17.603	11.55	—	—	6.053
MW-14	11/08/21	S&W	17.603	10.50	—	—	7.103
MW-15	09/09/92	SECOR	17.65	11.82	—	0	5.83
MW-15	09/17/92	SECOR	17.65	11.87	—	0	5.78
MW-15	09/21/92	SECOR	17.65	11.89	—	0	5.76
MW-15	10/01/92	SECOR	17.65	11.75	—	0	5.90
MW-15	10/08/92	SECOR	17.65	11.89	—	0	5.76
MW-15	10/23/92	SECOR	17.65	11.87	—	0	5.78
MW-15	10/28/92	SECOR	17.65	—	—	—	—
MW-15	11/20/92	SECOR	17.65	11.38	—	0	6.27
MW-15	12/08/92	SECOR	17.65	11.14	—	0	6.51
MW-15	12/22/92	SECOR	17.65	10.89	—	0	6.76
MW-15	01/08/93	SECOR	17.65	10.95	—	0	6.70
MW-15	01/19/93	SECOR	17.65	10.95	—	0	6.70
MW-15	02/02/93	SECOR	17.65	10.72	—	0	6.93
MW-15	02/19/93	SECOR	17.65	10.9	—	0	6.75
MW-15	03/03/93	SECOR	17.65	11.21	—	0	6.44
MW-15	10/18-19/1999	URS	17.65	9.41	—	0	8.24
MW-15	01/05/00	URS	17.65	10.17	—	0	7.48
MW-15	5/2-3/2000	URS	17.65	11.26	—	0	6.39
MW-15	8/22-23/2000	URS	17.65	11.95	—	0	5.70
MW-15	12/12-13/2000	URS	17.65	11.62	—	0	6.03
MW-15	2/14-15/2001	URS	17.65	10.83	—	0	6.82
MW-15	04/09/02	Kane	17.65	10.36	—	0	7.29
MW-15	04/11/03	Farallon	17.65	8.77	—	0	8.88
MW-15	04/24/04	Kane	17.65	10.58	—	0	7.07
MW-15	05/18/05	Farallon	17.65	10.25	—	0	7.40
MW-15	12/13/05	Farallon	17.65	11.69	—	0	5.96
MW-15	05/18/06	Farallon	17.65	11.53	—	0	6.12
MW-15	01/11/07	Farallon	17.65	7.38	—	0	10.27
MW-15	07/31/07	Farallon	17.65	11.95	—	0	5.70
MW-15	01/29/08	Farallon	17.65	9.98	—	0	7.67
MW-15	02/23/09	Farallon	17.65	11.9	—	0	5.75
MW-15	05/19/09	Farallon	17.65	11.7	—	0	5.95
MW-15	08/25/09	Farallon	17.65	12.39	—	0	5.26
MW-15	12/09/09	Farallon	17.65	11.5	—	0	6.15
MW-15	09/29/15	PES	—	11.82	—	—	—
MW-15	08/15/17	S&W	17.61	11.55	—	0	6.06
MW-15	02/05/18	S&W	17.61	9.46	—	0	8.15
MW-15	03/08/21	S&W	17.608	7.62	—	—	9.988

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-15	05/04/21	S&W	17.608	10.93	—	—	6.678
MW-15	08/16/21	S&W	17.608	11.52	—	—	6.088
MW-15	11/08/21	S&W	17.608	10.48	—	—	7.128
MW-16	09/09/92	SECOR	17.72	—	—	—	—
MW-16	09/17/92	SECOR	17.72	—	—	—	—
MW-16	09/21/92	SECOR	17.72	—	—	—	—
MW-16	10/02/92	SECOR	17.72	13.89	—	2.27	—
MW-16	10/08/92	SECOR	17.72	—	—	—	—
MW-16	10/23/92	SECOR	17.72	—	—	—	—
MW-16	10/28/92	SECOR	17.72	—	—	—	—
MW-16	11/20/92	SECOR	17.72	13.41	11.39	2.02	6.19
MW-16	12/08/92	SECOR	17.72	13.58	10.88	2.7	6.65
MW-16	12/22/92	SECOR	17.72	13.9	10.67	3.23	6.82
MW-16	01/08/93	SECOR	17.72	—	—	—	—
MW-16	01/19/93	SECOR	17.72	15.33	10.5	4.83	6.88
MW-16	02/02/93	SECOR	17.72	15.72	10.24	5.48	7.09
MW-16	02/19/93	SECOR	17.72	16.56	10.25	6.31	7.02
MW-16	03/03/93	SECOR	17.72	16.56	10.5	6.06	6.79
MW-16	10/18-19/1999	URS	17.72	15.5	11	4.5	6.40
MW-16	01/05/00	URS	17.72	15.46	9.69	5.77	7.62
MW-16	5/2-3/2000	URS	17.72	15.49	10.27	5.22	7.08
MW-16	8/22-23/2000	URS	17.72	15.45	11.03	4.42	6.38
MW-16	12/12-13/2000	URS	17.72	14.5	10.72	3.78	6.73
MW-16	2/14-15/2001	URS	17.72	15.42	10.36	5.06	7.00
MW-16	04/09/02	Kane	17.72	17	11.2	5.8	6.11
MW-16	04/24/04	Kane	17.72	15.09	10.03	5.06	7.33
MW-16	12/29/04	Farallon	17.72	15.38	9.98	5.4	7.36
MW-16	05/18/05	Farallon	17.72	15.45	10.38	5.07	6.98
MW-16	12/13/05	Farallon	17.72	17.72	11	6.72	6.24
MW-16	05/18/06	Farallon	17.72	17.72	10.6	7.12	6.61
MW-16	04/13/07	Farallon	17.72	15.32	10.26	5.06	7.10
MW-16	07/31/07	Farallon	17.72	17.36	13	4.36	4.41
MW-16	01/29/08	Farallon	17.72	—	9.02	6.37	8.25
MW-16	02/23/09	Farallon	17.72	—	10.98	5	6.39
MW-16	05/19/09	Farallon	17.72	11.9	10.86	1.04	6.79
MW-16	08/25/09	Farallon	17.72	—	11.51	3.88	5.93
MW-16	12/09/09	Farallon	17.72	—	10.49	4.9	6.88
MW-16	09/30/15	PES	—	—	10.94	> 4.45	—
MW-16	08/11/17	S&W	17.70	15.25	10.92	4.33	6.47
MW-16	02/08/18	S&W	17.70	—	9.34	> 6.09	—
MW-16	03/08/21	S&W	17.695	12.98	8.78	4.2	8.62
MW-16	05/04/21	S&W	17.695	13.30	10.25	3.05	7.23
MW-16	08/16/21	S&W	17.695	—	10.17	5.33	7.15
MW-17	10/18-19/1999	URS	17.61	—	—	—	—
MW-17	01/05/00	URS	17.61	—	—	—	—
MW-17	5/2-3/2000	URS	17.61	—	—	—	—
MW-17	8/22-23/2000	URS	17.61	16.71	11.12	5.59	6.09
MW-17	12/12-13/2000	URS	17.61	17.32	10.9	6.42	6.25
MW-17	2/14-15/2001	URS	17.61	16.02	10.45	5.57	6.76
MW-17	04/09/02	Kane	17.61	14.7	10.9	3.8	6.44
MW-17	04/24/04	Kane	17.61	—	—	—	—

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-17	05/18/05	Farallon	17.61	13.9	10.25	3.65	7.10
MW-17	12/13/05	Farallon	17.61	16.2	10.92	5.28	6.32
MW-17	05/18/06	Farallon	17.61	14.18	10.39	3.79	6.95
MW-17	04/13/07	Farallon	17.61	14.24	10.27	3.97	7.06
MW-17	07/31/07	Farallon	17.61	17.61	12.83	4.78	4.44
MW-17	01/29/08	Farallon	17.61	13.8	8.76	5.04	8.49
MW-17	02/23/09	Farallon	17.61	13.9	10.6	3.3	6.78
MW-17	05/19/09	Farallon	17.61	13.8	10.52	3.28	6.86
MW-17	08/25/09	Farallon	17.61	18.11	11.35	6.76	5.78
MW-17	12/09/09	Farallon	17.61	16.84	10.59	6.25	6.58
MW-17	09/30/15	PES	—	18.84	10.94	7.9	—
MW-17	08/11/17	S&W	17.57	15.64	10.61	5.03	6.60
MW-17	02/08/18	S&W	17.57	13.59	8.68	4.91	8.54
MW-17	10/14/20	S&W	17.566	15.02	10.89	4.13	6.38
MW-17	03/08/21	S&W	17.566	12.75	8.49	4.26	8.77
MW-17	05/04/21	S&W	17.566	11.42	10.14	1.28	7.34
MW-17	08/16/21	S&W	17.566	13.34	10.93	2.41	6.46
MW-18	09/09/92	SECOR	17.51	12.11	—	0	5.40
MW-18	09/17/92	SECOR	17.51	12.02	—	0	5.49
MW-18	09/21/92	SECOR	17.51	12.13	—	0	5.38
MW-18	10/01/92	SECOR	17.51	11.78	—	0	5.73
MW-18	10/08/92	SECOR	17.51	12.06	—	0	5.45
MW-18	10/23/92	SECOR	17.51	12.03	—	0	5.48
MW-18	10/28/92	SECOR	17.51	—	—	—	—
MW-18	11/20/92	SECOR	17.51	11.45	—	0	6.06
MW-18	12/08/92	SECOR	17.51	11.41	—	0.8	—
MW-18	12/22/92	SECOR	17.51	9.23	—	0.06	—
MW-18	01/08/93	SECOR	17.51	—	—	—	—
MW-18	01/19/93	SECOR	17.51	9.15	—	0.3	—
MW-18	02/02/93	SECOR	17.51	13.44	—	3.55	—
MW-18	02/19/93	SECOR	17.51	—	—	> 2.72	—
MW-18	03/03/93	SECOR	17.51	—	—	> 2.42	—
MW-18	10/18-19/1999	URS	17.51	12.1	11.5	0.6	5.97
MW-18	01/05/00	URS	17.51	11.51	10.11	1.4	7.30
MW-18	5/2-3/2000	URS	17.51	—	—	—	—
MW-18	8/22-23/2000	URS	17.51	12.1	11.65	0.45	5.83
MW-18	12/12-13/2000	URS	17.51	13.65	11.2	2.45	6.14
MW-18	2/14-15/2001	URS	17.51	11.55	10.82	0.73	6.64
MW-18	04/09/02	Kane	17.51	—	—	—	—
MW-18	04/24/04	Kane	17.51	—	—	—	—
MW-18	05/18/05	Farallon	17.51	11.69	10.05	1.64	7.34
MW-18	12/13/05	Farallon	17.51	11.6	11.02	0.58	6.45
MW-18	05/18/06	Farallon	17.51	11.65	9.88	1.77	7.50
MW-18	04/13/07	Farallon	17.51	11.66	9.09	2.57	8.24
MW-18	07/31/07	Farallon	17.51	14.22	13.12	1.1	4.31
MW-18	01/29/08	Farallon	17.51	10.36	8.7	1.66	8.69
MW-18	02/23/09	Farallon	17.51	11.66	10.51	1.15	6.92
MW-18	05/19/09	Farallon	17.51	13.8	10.62	3.18	6.66
MW-18	08/25/09	Farallon	17.51	12.09	11.65	0.44	5.83
MW-18	12/09/09	Farallon	17.51	11.01	10.12	0.89	7.33
MW-18	09/30/15	PES	—	11.98	11.09	0.89	—

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-18	08/11/17	S&W	17.47	11.79	9.95	1.84	7.39
MW-18	02/08/18	S&W	17.47	10.58	7.97	2.61	9.31
MW-18	03/08/21	S&W	17.466	9.95	6.37	3.58	10.84
MW-18	05/04/21	S&W	17.466	8.85	7.77	1.08	9.62
MW-18	08/16/21	S&W	17.466	13.15	8.55	4.6	8.59
MW-19	09/09/92	SECOR	17.47	—	—	—	—
MW-19	09/17/92	SECOR	17.47	—	—	—	—
MW-19	09/21/92	SECOR	17.47	—	—	—	—
MW-19	10/02/92	SECOR	17.47	14.58	—	3.98	6.59
MW-19	10/08/92	SECOR	17.47	—	—	—	—
MW-19	10/23/92	SECOR	17.47	—	—	—	—
MW-19	10/28/92	SECOR	17.47	14.07	—	3.95	7.07
MW-19	11/20/92	SECOR	17.47	14.54	—	4.2	6.83
MW-19	12/08/92	SECOR	17.47	14.51	—	4.54	7.18
MW-19	12/22/92	SECOR	17.47	14.53	—	4.7	7.31
MW-19	01/08/93	SECOR	17.47	14.55	—	4.72	7.30
MW-19	01/19/93	SECOR	17.47	14.55	—	4.69	7.28
MW-19	02/02/93	SECOR	17.47	14.6	—	4.98	7.50
MW-19	02/19/93	SECOR	17.47	14.81	—	5.07	7.37
MW-19	03/03/93	SECOR	17.47	14.89	—	4.76	7.00
MW-19	10/18-19/1999	URS	17.47	14.8	10.93	3.87	6.27
MW-19	01/05/00	URS	17.47	14.85	9.72	5.13	7.39
MW-19	5/2-3/2000	URS	17.47	10.24	—	—	—
MW-19	8/22-23/2000	URS	17.47	14.7	11.01	3.69	6.20
MW-19	12/12-13/2000	URS	17.47	15.5	11.3	4.2	5.87
MW-19	2/14-15/2001	URS	17.47	14.78	9.98	4.8	7.15
MW-19	04/09/02	Kane	17.47	15.76	10.99	4.77	6.14
MW-19	04/10/03	Farallon	17.47	9.74	—	5.04	12.41
MW-19	04/24/04	Kane	17.47	13.84	8.86	4.98	8.26
MW-19	05/18/05	Farallon	17.47	14.64	10.41	4.23	6.76
MW-19	12/13/05	Farallon	17.47	14.9	10.8	4.1	6.38
MW-19	05/18/06	Farallon	17.47	14.7	10.44	4.26	6.73
MW-19	04/13/07	Farallon	17.47	14.6	10.32	4.28	6.85
MW-19	07/31/07	Farallon	17.47	16	12.77	3.23	4.47
MW-19	01/29/08	Farallon	17.47	10.81	—	0	6.66
MW-19	02/23/09	Farallon	17.47	12.34	11.34	1	6.06
MW-19	05/19/09	Farallon	17.47	—	—	—	—
MW-19	08/25/09	Farallon	17.47	11.25	11.16	0.09	6.30
MW-19	12/09/09	Farallon	17.47	12.34	9.88	2.46	7.42
MW-19	09/30/15	PES	—	11.47	—	—	—
MW-19	08/10/17	S&W	17.92	11.3	11.2	0.1	6.71
MW-19	02/08/18	S&W	17.92	9.82	9.2	0.62	8.67
MW-19	10/14/20	S&W	17.916	13.70	11.45	2.25	6.31
MW-19	03/08/21	S&W	17.916	—**	9.51	—	—
MW-19	05/04/21	S&W	17.916	12.55	10.80	1.75	6.99
MW-19	08/16/21	S&W	17.916	12.80	11.00	1.80	6.79
MW-20	09/09/92	SECOR	18.22	—	—	—	—
MW-20	09/17/92	SECOR	18.22	—	—	—	—
MW-20	09/21/92	SECOR	18.22	—	—	—	—
MW-20	10/01/92	SECOR	18.22	14.68	—	4.3	7.53
MW-20	10/08/92	SECOR	18.22	—	—	—	—

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-20	10/23/92	SECOR	18.22	—	—	—	—
MW-20	10/28/92	SECOR	18.22	14.68	—	4.18	7.42
MW-20	11/20/92	SECOR	18.22	14.69	—	4.44	7.65
MW-20	12/08/92	SECOR	18.22	14.68	—	4.76	7.96
MW-20	12/22/92	SECOR	18.22	14.62	—	4.8	8.06
MW-20	01/08/93	SECOR	18.22	14.67	—	4.86	8.06
MW-20	01/19/93	SECOR	18.22	14.63	—	5.08	8.31
MW-20	02/02/93	SECOR	18.22	14.73	—	5.39	8.50
MW-20	02/19/93	SECOR	18.22	15.04	—	5.61	8.39
MW-20	03/03/93	SECOR	18.22	14.84	—	4.92	7.95
MW-20	10/18-19/1999	URS	18.22	14.81	10.53	4.28	7.39
MW-20	01/05/00	URS	18.22	14.96	9.37	5.59	8.45
MW-20	5/2-3/2000	URS	18.22	14.85	9.85	5	8.02
MW-20	8/22-23/2000	URS	18.22	14.65	10.35	4.3	7.56
MW-20	12/12-13/2000	URS	18.22	14.75	10.95	3.8	7.00
MW-20	2/14-15/2001	URS	18.22	14.72	10.19	4.53	7.71
MW-20	04/09/02	Kane	18.22	17.76	10.29	7.47	7.40
MW-20	04/24/04	Kane	18.22	—	—	—	—
MW-20	12/29/04	Farallon	18.22	14.56	9.41	5.15	8.44
MW-20	05/18/05	Farallon	18.22	14.81	9.46	5.35	8.38
MW-20	12/13/05	Farallon	18.22	14.77	10.12	4.65	7.77
MW-20	05/18/06	Farallon	18.22	14.5	9.6	4.9	8.27
MW-20	04/13/07	Farallon	18.22	14.56	9.51	5.05	8.35
MW-20	07/31/07	Farallon	18.22	16.64	11.97	4.67	5.92
MW-20	01/29/08	Farallon	18.22	13.72	8.1	5.62	9.72
MW-20	02/23/09	Farallon	18.22	14.52	9.51	5.01	8.35
MW-20	05/19/09	Farallon	18.22	14.6	9.34	5.26	8.51
MW-20	08/25/09	Farallon	18.22	14.82	10.24	4.58	7.65
MW-20	12/09/09	Farallon	18.22	14.68	9.4	5.28	8.45
MW-20	09/29/15	PES	—	—	—	—	—
MW-20	02/08/18	S&W	—	12.1	7.98	4.12	—
MW-20	10/14/20	S&W	18.22	13.31	9.94	3.37	8.04
MW-20	03/08/21	S&W	18.22	11.61	7.58	4.03	10.35
MW-20	05/04/21	S&W	18.22	13.12	8.59	4.53	9.31
MW-20	08/16/21	S&W	18.22	14.33	9.61	4.72	8.27
MW-21	09/09/92	SECOR	13.90	—	—	—	—
MW-21	09/17/92	SECOR	13.90	—	—	—	—
MW-21	09/21/92	SECOR	13.90	—	—	—	—
MW-21	10/01/92	SECOR	13.90	14.76	—	5.2	3.97
MW-21	10/08/92	SECOR	13.90	—	—	—	—
MW-21	10/23/92	SECOR	13.90	—	—	—	—
MW-21	10/28/92	SECOR	13.90	14.78	—	6.15	4.83
MW-21	11/20/92	SECOR	13.90	14.75	—	4.57	3.40
MW-21	12/08/92	SECOR	13.90	14.73	—	5.22	4.02
MW-21	12/22/92	SECOR	13.90	14.73	—	5.44	4.22
MW-21	01/08/93	SECOR	13.90	—	—	—	—
MW-21	01/19/93	SECOR	13.90	14.82	—	6.8	5.40
MW-21	02/02/93	SECOR	13.90	15.01	—	7.05	5.44
MW-21	02/19/93	SECOR	13.90	14.99	—	6.65	5.09
MW-21	03/03/93	SECOR	13.90	14.56	—	5.5	4.45
MW-21	10/18-19/1999	URS	13.90	14.85	7.85	7	5.55

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-21	01/05/00	URS	13.90	14.52	6.97	7.55	6.39
MW-21	5/2-3/2000	URS	13.90	—	—	—	—
MW-21	8/22-23/2000	URS	13.90	13.22	7.85	5.37	5.67
MW-21	12/12-13/2000	URS	13.90	14.6	8.35	6.25	5.11
MW-21	2/14-15/2001	URS	13.90	14.59	7.78	6.81	5.64
MW-21	04/09/02	Kane	13.90	14.9	6.89	8.01	6.44
MW-21	04/24/04	Kane	13.90	—	—	—	—
MW-21	05/18/05	Farallon	13.90	11.45	7.04	4.41	6.55
MW-21	12/13/05	Farallon	13.90	14	7.77	6.23	5.69
MW-21	05/18/06	Farallon	13.90	13.67	7.17	6.5	6.27
MW-21	04/13/07	Farallon	13.90	13.79	7.08	6.71	6.34
MW-21	07/31/07	Farallon	13.90	15.23	9.61	5.62	3.89
MW-21	01/29/08	Farallon	13.90	10.84	5.93	4.91	7.62
MW-21	02/23/09	Farallon	13.90	12.56	7.08	5.48	6.43
MW-21	05/19/09	Farallon	13.90	13.75	6.7	7.05	6.70
MW-21	08/25/09	Farallon	13.90	12.56	7.97	4.59	5.60
MW-21	12/09/09	Farallon	13.90	10.23	6.77	3.46	6.88
MW-21	09/29/15	PES	—	9.35	8.88	0.47	—
MW-21	08/11/17	S&W	17.88	9.74	8.25	1.49	9.53
MW-21	02/08/18	S&W	17.88	7.35	6.49	0.86	11.33
MW-21	10/14/20	S&W	17.881	12.15	9.44	2.71	8.25
MW-21	03/08/21	S&W	17.881	7.06	6.40	0.66	11.43
MW-21	05/04/21	S&W	17.881	10.59	7.44	3.15	10.22
MW-21	08/16/21	S&W	17.881	11.97	8.45	3.52	9.18
MW-22	09/09/92	SECOR	16.98	11.72	—	0	5.26
MW-22	09/17/92	SECOR	16.98	11.62	—	0	5.36
MW-22	09/21/92	SECOR	16.98	11.67	—	0	5.31
MW-22	10/01/92	SECOR	16.98	11.3	—	0	5.68
MW-22	10/08/92	SECOR	16.98	11.64	—	0	5.34
MW-22	10/23/92	SECOR	16.98	11.6	—	0	5.38
MW-22	10/28/92	SECOR	16.98	—	—	—	—
MW-22	11/20/92	SECOR	16.98	10.97	—	0	6.01
MW-22	12/08/92	SECOR	16.98	9.73	—	0	7.25
MW-22	12/22/92	SECOR	16.98	6.57	—	0	10.41
MW-22	01/08/93	SECOR	16.98	5.41	—	0	11.57
MW-22	01/19/93	SECOR	16.98	5.17	—	0	11.81
MW-22	02/02/93	SECOR	16.98	6.46	—	0	10.52
MW-22	02/19/93	SECOR	16.98	6.97	—	0	10.01
MW-22	03/03/93	SECOR	16.98	7.73	—	0	9.25
MW-22	10/18-19/1999	URS	16.98	7.7	—	0	9.28
MW-22	01/05/00	URS	16.98	7.72	7.21	0.51	9.73
MW-22	5/2-3/2000	URS	16.98	8.1	7.36	0.74	9.57
MW-22	8/22-23/2000	URS	16.98	9.18	7.99	1.19	8.91
MW-22	12/12-13/2000	URS	16.98	10.3	8.2	2.1	8.63
MW-22	2/14-15/2001	URS	16.98	8.62	7.78	0.84	9.14
MW-22	04/09/02	Kane	16.98	8.71	6.76	1.95	10.08
MW-22	04/24/04	Kane	16.98	6.92	6.21	0.71	10.72
MW-22	12/29/04	Farallon	16.98	12.29	6.95	5.34	9.65
MW-22	05/18/05	Farallon	16.98	12.22	6.94	5.28	9.67
MW-22	12/13/05	Farallon	16.98	12.35	7.45	4.9	9.18
MW-22	05/18/06	Farallon	16.98	10.83	7.27	3.56	9.46

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-22	04/13/07	Farallon	16.98	10.69	7.16	3.53	9.57
MW-22	07/31/07	Farallon	16.98	14.34	9.7	4.64	6.95
MW-22	01/29/08	Farallon	16.98	12.17	6.29	5.88	10.27
MW-22	02/23/09	Farallon	16.98	10.21	7.23	2.98	9.54
MW-22	05/19/09	Farallon	16.98	11.05	6.95	4.1	9.74
MW-22	08/25/09	Farallon	16.98	14.13	8.03	6.1	8.52
MW-22	12/09/09	Farallon	16.98	8.48	7.1	1.38	9.78
MW-22	—	PES	—	—	—	—	—
MW-22R	03/08/21	S&W	17.7	9.31	9.16	0.15	8.53
MW-22R	05/04/21	S&W	17.7	12.74	10.12	2.62	7.39
MW-22R	08/16/21	S&W	17.7	14.35	10.21	4.14	7.20
MW-23	10/18-19/1999	URS	17.84	12.11	—	0	5.73
MW-23	01/05/00	URS	17.84	10.82	—	0	7.02
MW-23	5/2-3/2000	URS	17.84	11.28	—	0	6.56
MW-23	8/22-23/2000	URS	17.84	11.98	—	0	5.86
MW-23	12/12-13/2000	URS	17.84	12.3	—	0	5.54
MW-23	2/14-15/2001	URS	17.84	11.35	—	0	6.49
MW-23	04/09/02	Kane	17.84	10.08	—	0	7.76
MW-23	04/24/04	Kane	17.84	11.02	—	0	6.82
MW-23	12/29/04	Farallon	17.84	10.76	—	0	7.08
MW-23	05/18/05	Farallon	17.84	11.36	—	0	6.48
MW-23	12/13/05	Farallon	17.84	11.84	—	0	6.00
MW-23	05/18/06	Farallon	17.84	11.45	—	0	6.39
MW-23	01/11/07	Farallon	17.84	9.87	—	0	7.97
MW-23	07/31/07	Farallon	17.84	11.92	—	0	5.92
MW-23	01/29/08	Farallon	17.84	9.9	—	0	7.94
MW-23	02/23/09	Farallon	17.84	11.88	—	0	5.96
MW-23	05/19/09	Farallon	17.84	11.7	—	0	6.14
MW-23	08/25/09	Farallon	17.84	12.36	—	0	5.48
MW-23	12/09/09	Farallon	17.84	11.5	—	0	6.34
MW-23	09/29/15	PES	—	11.89	—	—	—
MW-23	08/11/17	S&W	17.78	11.64	—	0	6.14
MW-23	02/05/18	S&W	17.78	9.87	—	0	7.91
MW-23	03/08/21	S&W	17.779	10.10	—	—	7.679
MW-23	05/04/21	S&W	17.779	11.01	—	—	6.769
MW-23	08/16/21	S&W	17.779	11.65	—	—	6.129
MW-23	11/08/21	S&W	17.779	10.56	—	—	7.219
MW-24	10/18-19/1999	URS	17.88	12.55	—	0	5.33
MW-24	01/05/00	URS	17.88		—	0	17.88
MW-24	02/14/00	URS	17.88	11.69	—	0	6.19
MW-24	5/2-3/2000	URS	17.88	12.78	—	0	5.10
MW-24	8/22-23/2000	URS	17.88	12.55	—	0	5.33
MW-24	12/12-13/2000	URS	17.88	11.92	—	0	5.96
MW-24	04/09/02	Kane	17.88	11.34	—	0	6.54
MW-24	04/11/03	Farallon	17.88	11.03	—	0	6.85
MW-24	04/24/04	Kane	17.88	11.52	—	0	6.36
MW-24	05/18/05	Farallon	17.88	11.52	—	0	6.36
MW-24	12/13/05	Farallon	17.88	11.95	—	0	5.93
MW-24	05/18/06	Farallon	17.88	11.69	—	0	6.19
MW-24	01/11/07	Farallon	17.88	10.18	—	0	7.70
MW-24	07/31/07	Farallon	17.88	12.15	—	0	5.73

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-24	01/29/08	Farallon	17.88	10.03	—	0	7.85
MW-24	02/23/09	Farallon	17.88	11.9	—	0	5.98
MW-24	05/19/09	Farallon	17.88	11.87	—	0	6.01
MW-24	08/25/09	Farallon	17.88	12.46	—	0	5.42
MW-24	12/09/09	Farallon	17.88	11.58	—	0	6.30
MW-24	09/29/15	PES	—	11.99	—	—	—
MW-24	08/11/17	S&W	17.79	11.8	—	0	5.99
MW-24	02/05/18	S&W	17.79	10.27	—	0	7.52
MW-24	03/08/21	S&W	17.792	10.31	—	—	7.482
MW-24	05/04/21	S&W	17.792	11.32	—	—	6.472
MW-24	08/16/21	S&W	17.792	11.83	—	—	5.962
MW-24	11/08/21	S&W	17.792	10.64	—	—	7.152
MW-25	10/18-19/1999	URS	17.64	12.5	—	0	5.14
MW-25	01/05/00	URS	17.64	—	—	—	—
MW-25	5/2-3/2000	URS	17.64	11.82	—	0	5.82
MW-25	8/22-23/2000	URS	17.64	12.52	—	0	5.12
MW-25	12/12-13/2000	URS	17.64	11.88	—	0	5.76
MW-25	2/14-15/2001	URS	17.64	11.59	—	0	6.05
MW-25	04/09/02	Kane	17.64	11.45	—	0	6.19
MW-25	04/11/03	Farallon	17.64	10.98	—	0	6.66
MW-25	04/24/04	Kane	17.64	12.01	—	0	5.63
MW-25	12/29/04	Farallon	17.64	6.86	—	0	10.78
MW-25	05/18/05	Farallon	17.64	11.46	—	0	6.18
MW-25	12/13/05	Farallon	17.64	11.8	—	0	5.84
MW-25	05/18/06	Farallon	17.64	11.75	—	0	5.89
MW-25	01/11/07	Farallon	17.64	10.21	—	0	7.43
MW-25	07/31/07	Farallon	17.64	12.26	—	0	5.38
MW-25	01/29/08	Farallon	17.64	9.85	—	0	7.79
MW-25	02/23/09	Farallon	17.64	11.7	—	0	5.94
MW-25	05/19/09	Farallon	17.64	11.8	—	0	5.84
MW-25	05/21/09	Farallon	17.64	12	—	0	5.64
MW-25	08/25/09	Farallon	17.64	12.32	—	0	5.32
MW-25	12/09/09	Farallon	17.64	11.36	—	0	6.28
MW-25	09/29/15	PES	—	9.44	—	—	—
MW-25	08/11/17	S&W	17.65	11.7	—	0	5.95
MW-25	02/05/18	S&W	17.65	7.4	—	0	10.25
MW-25	03/08/21	S&W	17.652	10.27	—	—	7.382
MW-25	05/04/21	S&W	17.652	11.38	—	—	6.272
MW-25	08/16/21	S&W	17.652	11.74	—	—	5.912
MW-25	11/08/21	S&W	17.652	10.51	—	—	7.142
MW-26	10/18-19/1999	URS	18.36	21.09	11.1	9.99	6.55
MW-26	01/05/00	URS	18.36	20.98	9.93	11.05	7.65
MW-26	5/2-3/2000	URS	18.36	21.09	10.6	10.49	7.02
MW-26	8/22-23/2000	URS	18.36	20.72	11.31	9.41	6.38
MW-26	12/12-13/2000	URS	18.36	21.15	11	10.15	6.64
MW-26	2/14-15/2001	URS	18.36	21.15	10.62	10.53	6.99
MW-26	04/09/02	Kane	18.36	21.02	11.13	9.89	6.53
MW-26	04/24/04	Kane	18.36	—	—	—	—
MW-26	05/18/05	Farallon	18.36	10.8	10.35	0.45**	—
MW-26	12/13/05	Farallon	18.36	19.35	10.92	8.43	6.84
MW-26	05/18/06	Farallon	18.36	19.35	10.39	8.96	7.33

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-26	04/13/07	Farallon	18.36	19.3	10.31	8.99	7.41
MW-26	07/31/07	Farallon	18.36	21.65	12.69	8.96	5.03
MW-26	01/29/08	Farallon	18.36	17.41	8.75	8.66	9.00
MW-26	02/23/09	Farallon	18.36	—	10.26	3.3	7.87
MW-26	05/19/09	Farallon	18.36	—	10.23	3.33	7.89
MW-26	08/25/09	Farallon	18.36	—	—	—	—
MW-26	12/09/09	Farallon	18.36	—	—	—	—
MW-26	09/29/15	PES	—	—	10.64	> 2.66	—
MW-26	08/11/17	S&W	18.28	16.45	10.05	6.4	7.77
MW-26	02/08/18	S&W	18.28	16.22	8.62	7.6	9.12
MW-26	10/14/20	S&W	18.278	16.51	10.53	5.98	7.32
MW-26	03/08/21	S&W	18.278	8.30	8.25	0.05	10.02
MW-26	05/04/21	S&W	18.278	16.11	9.32	6.79	8.48
MW-26	08/16/21	S&W	18.278	16.71	10.20	6.51	7.62
MW-27	10/18-19/1999	URS	18.15	18.5	11.52	6.98	6.13
MW-27	01/05/00	URS	18.15	18.2	10.28	7.92	7.31
MW-27	5/2-3/2000	URS	18.15	18.55	10.9	7.65	6.71
MW-27	8/22-23/2000	URS	18.15	18.66	11.64	7.02	6.01
MW-27	12/12-13/2000	URS	18.15	18.3	11.25	7.05	6.40
MW-27	2/14-15/2001	URS	18.15	18.2	7.85	10.35	9.57
MW-27	04/09/02	Kane	18.15	19.93	11.59	8.34	5.97
MW-27	04/24/04	Kane	18.15	—	—	—	—
MW-27	05/18/05	Farallon	18.15	12.15	10.71	1.44**	—
MW-27	12/13/05	Farallon	18.15	21.2	11.22	9.98	6.22
MW-27	05/18/06	Farallon	18.15	21.5	10.8	10.7	6.59
MW-27	04/13/07	Farallon	18.15	21.72	10.91	10.81	6.47
MW-27	07/31/07	Farallon	18.15	23.02	13.34	9.68	4.12
MW-27	01/29/08	Farallon	18.15	20.08	9.15	10.93	8.22
MW-27	02/23/09	Farallon	18.15	21.21	11.16	10.05	6.28
MW-27	05/19/09	Farallon	18.15	18.5	11.27	7.23	6.37
MW-27	08/25/09	Farallon	18.15	19.65	11.96	7.69	5.64
MW-27	12/09/09	Farallon	18.15	18.36	10.96	7.4	6.66
MW-27	09/29/15	PES	—	19.84	11.5	8.34	—
MW-27	08/11/17	S&W	18.08	20.37	10.83	9.54	6.57
MW-27	02/08/18	S&W	18.08	21.8	9.18	12.62	8.00
MW-27	10/14/20	S&W	18.081	19.70	11.35	8.35	6.14
MW-27	03/08/21	S&W	18.081	19.99	9.22	10.77	8.10
MW-27	05/04/21	S&W	18.081	20.96	10.3	10.66	7.02
MW-27	08/16/21	S&W	18.081	20.70	11.00	9.70	6.39
MW-28	10/18-19/1999	URS	18.35	19	11.2	7.8	6.60
MW-28	01/05/00	URS	18.35	18.2	10.53	7.67	7.28
MW-28	5/2-3/2000	URS	18.35	17.9	11.25	6.65	6.63
MW-28	8/22-23/2000	URS	18.35	18.41	11.82	6.59	6.06
MW-28	12/12-13/2000	URS	18.35	18.8	11.7	7.1	6.15
MW-28	2/14-15/2001	URS	18.35	18.14	11.24	6.9	6.62
MW-28	04/09/02	Kane	18.35	18.3	11.7	6.6	6.18
MW-28	04/24/04	Kane	18.35	18.49	10.62	7.87	7.17
MW-28	12/29/04	Farallon	18.35	13.51	10.25	3.26**	—
MW-28	05/18/05	Farallon	18.35	10.93	0	0**	—
MW-28	12/13/05	Farallon	18.35	17.35	11.22	6.13	6.69
MW-28	05/18/06	Farallon	18.35	16.45	10.89	5.56	7.07

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-28	04/13/07	Farallon	18.35	16.41	10.81	5.6	7.14
MW-28	07/31/07	Farallon	18.35	21.33	16.7	4.63	1.32
MW-28	01/29/08	Farallon	18.35	15.3	9.25	6.05	8.67
MW-28	02/23/09	Farallon	18.35	13.06	6.02	7.04	11.83
MW-28	05/19/09	Farallon	18.35	16.5	11.15	5.35	6.82
MW-28	08/25/09	Farallon	18.35	16.68	12.15	4.53	5.88
MW-28	12/09/09	Farallon	18.35	15.44	10.95	4.49	7.08
MW-28	09/29/15	PES	—	14.28	11.95	2.33	—
MW-28	08/11/17	S&W	18.28	12.55	11.04	1.51	7.13
MW-28	02/08/18	S&W	18.28	14.4	9.25	5.15	8.66
MW-28	10/14/20	S&W	18.277	13.76	12.08	1.68	6.08
MW-28	03/08/21	S&W	18.277	12.00	9.19	2.81	8.89
MW-28	05/04/21	S&W	18.277	12.19	10.44	1.75	7.71
MW-28	08/16/21	S&W	18.277	13.10	11.38	1.72	6.77
MW-29	10/18-19/1999	URS	18.24	21.55	11.23	10.32	6.28
MW-29	01/05/00	URS	18.24	21.38	10	11.38	7.43
MW-29	5/2-3/2000	URS	18.24	21.42	10.67	10.75	6.81
MW-29	8/22-23/2000	URS	18.24	—	11.39	—	—
MW-29	12/12-13/2000	URS	18.24	21.35	11	10.35	6.51
MW-29	2/14-15/2001	URS	18.24	21.29	10.73	10.56	6.76
MW-29	04/09/02	Kane	18.24	22.59	11.39	11.2	6.05
MW-29	04/24/04	Kane	18.24		—	—	—
MW-29	05/18/05	Farallon	18.24	18.24	10.99	7.25	6.74
MW-29	12/13/05	Farallon	18.24	18.72	11.5	7.22	6.23
MW-29	05/18/06	Farallon	18.24	18.5	11.03	7.47	6.68
MW-29	04/13/07	Farallon	18.24	18.16	10.92	7.24	6.81
MW-29	07/31/07	Farallon	18.24	20.49	13.51	6.98	4.23
MW-29	01/29/08	Farallon	18.24	17.32	9.39	7.93	8.29
MW-29	02/23/09	Farallon	18.24	18.28	11.42	6.86	6.33
MW-29	05/19/09	Farallon	18.24	21.95	11	10.95	6.46
MW-29	08/25/09	Farallon	18.24	21.1	11.75	9.35	5.83
MW-29	12/09/09	Farallon	18.24	21.02	10.7	10.32	6.81
MW-29	09/29/15	PES	—	—	11.32	> 1.03	—
MW-29	08/11/17	S&W	18.15	18.18	11.06	7.12	6.59
MW-29	02/08/18	S&W	18.15	18.02	9.42	8.6	8.12
MW-29	10/14/20	S&W	18.151	17.81	11.49	6.32	6.21
MW-29	03/08/21	S&W	18.151	17.96	9.45	8.51	8.10
MW-29	05/04/21	S&W	18.151	16.80	10.71	6.09	7.01
MW-29	08/16/21	S&W	18.151	18.32	11.12	7.20	6.52
MW-30	10/18-19/1999	URS	17.48	12.2	—	0	5.28
MW-30	01/05/00	URS	17.48	10.94	—	0	6.54
MW-30	5/2-3/2000	URS	17.48	11.6	—	0	5.88
MW-30	8/22-23/2000	URS	17.48	—	—	—	—
MW-30	12/12-13/2000	URS	17.48	11.7	—	0	5.78
MW-30	2/14-15/2001	URS	17.48	11.33	—	0	6.15
MW-30	04/09/02	Kane	17.48	11.23	—	0	6.25
MW-30	04/24/04	Kane	17.48	—	—	—	—
MW-30	05/18/05	Farallon	17.48	11.29	—	0	6.19
MW-30	12/13/05	Farallon	17.48	11.79	—	0	5.69
MW-30	05/18/06	Farallon	17.48	11.6	—	0	5.88
MW-30	01/11/07	Farallon	17.48	10.02	—	0	7.46

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-30	07/31/07	Farallon	17.48	12.08	—	0	5.40
MW-30	01/29/08	Farallon	17.48	9.77	—	0	7.71
MW-30	02/23/09	Farallon	17.48	11.62	—	0	5.86
MW-30	05/19/09	Farallon	17.48	11.65	—	0	5.83
MW-30	08/25/09	Farallon	17.48	12.23	—	0	5.25
MW-30	12/09/09	Farallon	17.48	11.37	—	0	6.11
MW-30	09/30/15	PES	—	11.39	—	—	—
MW-30	08/11/17	S&W	17.45	11.5	—	0	5.95
MW-30	02/05/18	S&W	17.45	9.04	—	0	8.41
MW-30	03/08/21	S&W	17.449	7.67	—	—	9.779
MW-30	05/04/21	S&W	17.449	8.21	—	—	9.239
MW-30	08/16/21	S&W	17.449	8.79	—	—	8.659
MW-30	11/08/21	S&W	17.449	8.26	—	—	9.189
MW-31	10/18-19/1999	URS	17.50	12.36	—	0	5.14
MW-31	01/05/00	URS	17.50	11.06	—	0	6.44
MW-31	5/2-3/2000	URS	17.50	11.82	—	0	5.68
MW-31	8/22-23/2000	URS	17.50	12.41	—	0	5.09
MW-31	12/12-13/2000	URS	17.50	11.77	—	0	5.73
MW-31	2/14-15/2001	URS	17.50	11.51	—	0	5.99
MW-31	04/09/02	Kane	17.50	11.35	—	0	6.15
MW-31	04/11/03	Farallon	17.50	10.9	—	0	6.60
MW-31	04/24/04	Kane	17.50	11.42	—	0	6.08
MW-31	12/29/04	Farallon	17.50	10.76	—	0	6.74
MW-31	05/18/05	Farallon	17.50	11.4	—	0	6.10
MW-31	12/13/05	Farallon	17.50	11.7	—	0	5.80
MW-31	05/18/06	Farallon	17.50	11.56	—	0	5.94
MW-31	01/11/07	Farallon	17.50	10.09	—	0	7.41
MW-31	07/31/07	Farallon	17.50	11.99	—	0	5.51
MW-31	01/29/08	Farallon	17.50	9.78	—	0	7.72
MW-31	02/23/09	Farallon	17.50	11.63	—	0	5.87
MW-31	05/19/09	Farallon	17.50	11.7	—	0	5.80
MW-31	05/20/09	Farallon	17.50	11.85	—	0	5.65
MW-31	08/25/09	Farallon	17.50	12.24	—	0	5.26
MW-31	12/09/09	Farallon	17.50	11.42	—	0	6.08
MW-31	09/29/15	PES	—	11.87	—	—	—
MW-31	08/11/17	S&W	17.47	11.58	—	0	5.89
MW-31	02/05/18	S&W	17.47	10.29	—	0	7.18
MW-31	03/08/21	S&W	17.471	10.20	—	—	7.271
MW-31	05/04/21	S&W	17.471	11.21	—	—	6.261
MW-31	08/16/21	S&W	17.471	11.61	—	—	5.861
MW-31	11/08/21	S&W	17.471	10.43	—	—	7.041
MW-32	10/18-19/1999	URS	13.62	11.75	—	0	1.87
MW-32	01/05/00	URS	13.62	10.62	—	0	3.00
MW-32	5/2-3/2000	URS	13.62	10.97	—	0	2.65
MW-32	8/22-23/2000	URS	13.62	11.62	—	0	2.00
MW-32	12/12-13/2000	URS	13.62	11.25	—	0	2.37
MW-32	2/14-15/2001	URS	13.62	11.04	—	0	2.58
MW-32	04/09/02	Kane	13.62	10.94	—	0	2.68
MW-32	04/24/04	Kane	13.62	10.62	—	0	3.00
MW-32	05/18/05	Farallon	13.62	—	—	—	—
MW-32	12/13/05	Farallon	13.62	11.54	—	0	2.08

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-32	05/18/06	Farallon	13.62	11.2	—	0	2.42
MW-32	01/11/07	Farallon	13.62	9.6	—	0	4.02
MW-32	07/31/07	Farallon	13.62	11.61	—	0	2.01
MW-32	01/29/08	Farallon	13.62	9.57	—	0	4.05
MW-32	02/23/09	Farallon	13.62	11.44	—	0	2.18
MW-32	05/19/09	Farallon	13.62	12.45	—	0	1.17
MW-32	08/25/09	Farallon	13.62	11.96	—	0	1.66
MW-32	12/09/09	Farallon	13.62	11.08	—	0	2.54
MW-32	09/29/15	PES	—	11.44	—	—	—
MW-32	08/11/17	S&W	13.62	11.19	—	0	2.43
MW-32	02/05/18	S&W	13.62	9.48	—	0	4.14
MW-32	10/14/20	S&W	13.62	11.51	—	—	2.11
MW-32	03/08/21	S&W	13.62	9.69	—	—	3.93
MW-32	05/04/21	S&W	13.62	10.63	—	—	2.99
MW-32	08/16/21	S&W	13.62	11.19	—	—	2.43
MW-32	11/08/21	S&W	13.62	10.09	—	—	3.53
MW-33	10/18-19/1999	URS	17.23	12.1	11.7	0.4	5.50
MW-33	01/05/00	URS	17.23	11.71	10.38	1.33	6.75
MW-33	05/01/00	URS	17.23	10.68	—	0	6.55
MW-33	8/22-23/2000	URS	17.23	13	11.4	1.6	5.71
MW-33	12/12-13/2000	URS	17.23	13.12	11	2.12	6.07
MW-33	2/14-15/2001	URS	17.23	12.7	10.78	1.92	6.30
MW-33	04/09/02	Kane	17.23	—	—	—	—
MW-33	04/11/03	Farallon	17.23	12.04	—	1.72	6.78
MW-33	04/24/04	Kane	17.23	10.71	—	0	6.52
MW-33	05/18/05	Farallon	17.23	12.56	10.95	1.61	6.16
MW-33	12/13/05	Farallon	17.23	12.86	11.32	1.54	5.79
MW-33	05/18/06	Farallon	17.23	12.55	11.04	1.51	6.08
MW-33	04/13/07	Farallon	17.23	12.51	10.92	1.59	6.19
MW-33	07/31/07	Farallon	17.23	14.96	13.37	1.59	3.74
MW-33	01/29/08	Farallon	17.23	10.81	9.4	1.41	7.72
MW-33	02/23/09	Farallon	17.23	1.53	—	—	—
MW-33	05/19/09	Farallon	17.23	—	—	—	—
MW-33	08/25/09	Farallon	17.23	—	—	—	—
MW-33	12/09/09	Farallon	17.23	—	—	—	—
MW-34	10/18-19/1999	URS	17.13	11.39	—	0	5.74
MW-34	01/05/00	URS	17.13	10.36	—	0	6.77
MW-34	5/2-3/2000	URS	17.13	10.81	—	0	6.32
MW-34	8/22-23/2000	URS	17.13	11.43	—	0	5.70
MW-34	12/12-13/2000	URS	17.13	11.08	—	0	6.05
MW-34	2/14-15/2001	URS	17.13	10.85	—	0	6.28
MW-34	04/09/02	Kane	17.13	10.75	—	0	6.38
MW-34	04/24/04	Kane	17.13	10.92	—	0	6.21
MW-34	05/18/05	Farallon	17.13	10.96	—	0	6.17
MW-34	12/13/05	Farallon	17.13	11.4	—	0	5.73
MW-34	05/18/06	Farallon	17.13	11.04	—	0	6.09
MW-34	01/11/07	Farallon	17.13	9.41	—	0	7.72
MW-34	07/31/07	Farallon	17.13	11.26	—	0	5.87
MW-34	01/29/08	Farallon	17.13	5.8	—	0	11.33
MW-34	02/23/09	Farallon	17.13	12.74	11.3	1.44	5.72
MW-34	05/19/09	Farallon	17.13	11.41	11.29	0.12	5.83

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-34	08/25/09	Farallon	17.13	11.81	—	0	5.32
MW-34	12/09/09	Farallon	17.13	10.97	—	0	6.16
MW-34	09/29/15	PES	—	11.26	Sheen	Sheen	—
MW-34	08/11/17	S&W	17.06	11.05	—	0	6.01
MW-34	02/05/18	S&W	17.06	9.4	—	0	7.66
MW-34	03/08/21	S&W	17.061	9.29	—	—	7.771
MW-34	05/04/21	S&W	17.061	10.40	—	—	6.661
MW-34	08/16/21	S&W	17.061	11.00	—	—	6.061
MW-34	11/08/21	S&W	17.061	9.83	—	—	7.231
MW-35	10/18-19/1999	URS	13.96	19.2	11	8.2	2.34
MW-35	01/05/00	URS	13.96	18.85	9.7	9.15	3.56
MW-35	5/2-3/2000	URS	13.96	—	—	—	—
MW-35	8/22-23/2000	URS	13.96	—	—	—	—
MW-35	12/12-13/2000	URS	13.96	—	—	—	—
MW-35	2/14-15/2001	URS	13.96	—	—	—	—
MW-35	04/09/02	Kane	13.96	—	—	—	—
MW-35	04/24/04	Kane	13.96	—	—	—	—
MW-35	05/18/05	Farallon	13.96	—	—	—	—
MW-35	12/13/05	Farallon	13.96	—	—	—	—
MW-35	12/13/05	Farallon	13.96	—	—	—	—
MW-35	05/18/06	Farallon	13.96	—	—	—	—
MW-35	02/23/09	Farallon	13.96	17.49	10.79	6.7	2.66
MW-35	05/19/09	Farallon	13.96	17.8	10.7	7.1	2.72
MW-35	08/25/09	Farallon	13.96	17.85	11.44	6.41	2.03
MW-35	12/09/09	Farallon	13.96	17.56	10.45	7.11	2.97
MW-35	09/29/15	PES	—	17.75	10.79	6.96	—
MW-35	08/11/17	S&W	17.44	17.25	10.4	6.85	6.52
MW-35	02/08/18	S&W	17.44	17.49	8.89	8.6	7.89
MW-35	10/14/20	S&W	17.438	17.40	10.8	6.6	6.14
MW-35	03/08/21	S&W	17.438	10.70	8.93	1.77	8.37
MW-35	05/04/21	S&W	17.438	17.21	10.18	7.03	6.72
MW-35	08/16/21	S&W	17.438	17.51	10.46	7.05	6.44
MW-35	11/08/21	S&W	17.438	18.15	9.45	8.70	7.33
MW-36	10/18-19/1999	URS	17.41	12.14	—	0	5.27
MW-36	01/05/00	URS	17.41	10.97	—	0	6.44
MW-36	5/2-3/2000	URS	17.41	11.36	—	0	6.05
MW-36	8/22-23/2000	URS	17.41	—	—	—	—
MW-36	12/12-13/2000	URS	17.41	12.58	—	0	4.83
MW-36	2/14-15/2001	URS	17.41	11.32	—	0	6.09
MW-36	04/09/02	Kane	17.41	11.17	—	0	6.24
MW-36	04/11/03	Farallon	17.41	10.85	—	0	6.56
MW-36	04/24/04	Kane	17.41	11.44	—	0	5.97
MW-36	05/18/05	Farallon	17.41	11.35	—	0	6.06
MW-36	12/13/05	Farallon	17.41	11.74	—	0	5.67
MW-36	05/18/06	Farallon	17.41	11.48	—	0	5.93
MW-36	01/11/07	Farallon	17.41	9.9	—	0	7.51
MW-36	07/31/07	Farallon	17.41	11.91	—	0	5.50
MW-36	01/29/08	Farallon	17.41	9.83	—	0	7.58
MW-36	02/23/09	Farallon	17.41	11.67	—	0	5.74
MW-36	05/19/09	Farallon	17.41	11.6	—	0	5.81
MW-36	08/25/09	Farallon	17.41	12.19	—	0	5.22

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-36	12/09/09	Farallon	17.41	11.33	—	0	6.08
MW-36	09/29/15	PES	—	11.67	—	—	—
MW-36	08/15/17	S&W	17.38	11.45	—	0	5.93
MW-36	02/05/18	S&W	17.38	9.84	—	0	7.54
MW-36	03/08/21	S&W	17.383	10.11	—	—	7.273
MW-36	05/04/21	S&W	17.383	10.97	—	—	6.413
MW-36	08/16/21	S&W	17.383	11.49	—	—	5.893
MW-36	11/08/21	S&W	17.383	10.33	—	—	7.053
MW-37	02/23/09	Farallon	17.55	11.81	—	0	5.74
MW-37	05/19/09	Farallon	17.55	11.76	—	0	5.79
MW-37	08/25/09	Farallon	17.55	12.36	—	0	5.19
MW-37	12/09/09	Farallon	17.55	11.49	—	0	6.06
MW-37	09/29/15	PES	—	11.81	—	—	—
MW-37	08/15/17	S&W	17.50	11.61	—	0	5.89
MW-37	02/05/18	S&W	17.50	10	—	0	7.50
MW-37	03/08/21	S&W	17.498	10.25	—	—	7.248
MW-37	05/04/21	S&W	17.498	11.15	—	—	6.348
MW-37	08/16/21	S&W	17.498	11.62	—	—	5.878
MW-37	11/08/21	S&W	17.498	10.47	—	—	7.028
MW-38	02/23/09	Farallon	17.45	11.73	—	0	5.72
MW-38	05/19/09	Farallon	17.45	11.9	—	0	5.55
MW-38	05/21/09	Farallon	17.45	12.24	—	0	5.21
MW-38	08/25/09	Farallon	17.45	12.29	—	0	5.16
MW-38	12/09/09	Farallon	17.45	11.39	—	0	6.06
MW-38	09/29/15	PES	—	12.89	—	—	—
MW-38	08/15/17	S&W	17.38	11.69	—	0	5.69
MW-38	02/05/18	S&W	17.38	10.68	—	0	6.70
MW-38	03/08/21	S&W	17.384	10.55	—	—	6.834
MW-38	05/04/21	S&W	17.384	11.47	—	—	5.914
MW-38	08/16/21	S&W	17.384	11.67	—	—	5.714
MW-38	11/08/21	S&W	17.384	10.51	—	—	6.874
MW-39	02/23/09	Farallon	20.83	14.47	—	0	6.36
MW-39	05/19/09	Farallon	20.83	14.74	—	0	6.09
MW-39	05/21/09	Farallon	20.83	17.69	—	0	3.14
MW-39	08/25/09	Farallon	20.83	14.96	—	0	5.87
MW-39	12/09/09	Farallon	20.83	12.42	—	0	8.41
MW-39	09/29/15	PES	—	14.91	—	—	—
MW-39	08/15/17	S&W	20.80	14.8	—	0	6.00
MW-39	02/05/18	S&W	20.80	15.04	—	0	5.76
MW-39	03/08/21	S&W	20.80	14.02	—	—	6.78
MW-39	05/04/21	S&W	20.80	15.10	—	—	5.70
MW-39	08/16/21	S&W	20.80	13.95	—	—	6.85
MW-39	11/08/21	S&W	20.80	13.54	—	—	7.26
MW-40	02/23/09	Farallon	17.19	11.38	—	0	5.81
MW-40	05/19/09	Farallon	17.19	11.59	—	0	5.60
MW-40	08/26/09	Farallon	17.19	11.9	—	0	5.29
MW-40	12/18/09	Farallon	17.19	10.98	—	0	6.21
MW-40	09/30/15	PES	—	11.42	—	—	—
MW-40	08/15/17	S&W	17.15	11.28	—	0	5.87
MW-40	02/05/18	S&W	17.15	9.79	—	0	7.36
MW-40	03/08/21	S&W	17.148	9.88	—	—	7.268

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-40	05/04/21	S&W	17.148	10.82	—	—	6.328
MW-40	08/16/21	S&W	17.148	11.23	—	—	5.918
MW-40	11/08/21	S&W	17.148	10.10	—	—	7.048
MW-41	02/23/09	Farallon	17.37	11.56	—	0	5.81
MW-41	05/19/09	Farallon	17.37	11.6	—	0	5.77
MW-41	08/26/09	Farallon	17.37	12.1	—	0	5.27
MW-41	12/18/09	Farallon	17.37	11.19	—	0	6.18
MW-41	09/30/15	PES	—	11.62	—	—	—
MW-41	08/15/17	S&W	17.33	11.44	—	0	5.89
MW-41	02/05/18	S&W	17.33	9.95	—	0	7.38
MW-41	03/08/21	S&W	17.329	10.09	—	—	7.239
MW-41	05/04/21	S&W	17.329	11.01	—	—	6.319
MW-41	08/16/21	S&W	17.329	11.44	—	—	5.889
MW-41	11/08/21	S&W	17.329	10.31	—	—	7.019
MW-42	02/23/09	Farallon	17.54	11.46	—	0	6.08
MW-42	05/19/09	Farallon	17.54	11.95	—	0	5.59
MW-42	05/21/09	Farallon	17.54	11.98	—	0	5.56
MW-42	08/25/09	Farallon	17.54	12.23	—	0	5.31
MW-42	12/09/09	Farallon	17.54	11.49	—	0	6.05
MW-42	09/29/15	PES	—	11.39	—	—	—
MW-42	08/15/17	S&W	17.48	11.77	—	0	5.71
MW-42	02/05/18	S&W	17.48	10.45	—	0	7.03
MW-42	03/08/21	S&W	17.484	10.80	—	—	6.684
MW-42	05/04/21	S&W	17.484	11.45	—	—	6.034
MW-42	08/16/21	S&W	17.484	11.61	—	—	5.874
MW-42	11/08/21	S&W	17.484	9.83	—	—	7.654
MW-43	02/23/09	Farallon	17.49	10.27	—	0	7.22
MW-43	05/19/09	Farallon	17.49	11.98	—	0	5.51
MW-43	08/25/09	Farallon	17.49	11.33	—	0	6.16
MW-43	12/09/09	Farallon	17.49	9.6	—	0	7.89
MW-43	09/29/15	PES	—	13.3	—	—	—
MW-43	08/15/17	S&W	17.44	11.04	—	0	6.40
MW-43	02/05/18	S&W	17.44	14.71	—	0	2.73
MW-43	03/08/21	S&W	17.443	11.15	—	—	6.293
MW-43	05/04/21	S&W	17.443	12.98	—	—	4.463
MW-43	08/16/21	S&W	17.443	10.61	—	—	6.833
MW-43	11/08/21	S&W	17.443	11.11	—	—	6.333
MW-44	02/25/09	Farallon	17.14	12.73	—	0	4.41
MW-44	05/19/09	Farallon	17.14	11.8	—	0	5.34
MW-44	08/25/09	Farallon	17.14	11.24	—	0	5.90
MW-44	12/18/09	Farallon	17.14	10.1	—	0	7.04
MW-44	09/29/15	PES	—	12.31	—	—	—
MW-44	08/15/17	S&W	17.07	11.01	—	0	6.06
MW-44	02/05/18	S&W	17.07	14.1	—	0	2.97
MW-44	03/08/21	S&W	17.072	11.04	—	—	6.032
MW-44	05/04/21	S&W	17.072	12.70	—	—	4.372
MW-44	08/16/21	S&W	17.072	10.71	—	—	6.362
MW-44	11/08/21	S&W	17.072	11.06	—	—	6.012
MW-45	02/23/09	Farallon	17.16	11.31	—	0	5.85
MW-45	05/19/09	Farallon	17.16	11.35	—	0	5.81
MW-45	05/21/09	Farallon	17.16	11.45	—	0	5.71

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-45	08/25/09	Farallon	17.16	11.9	—	0	5.26
MW-45	12/09/09	Farallon	17.16	11.05	—	0	6.11
MW-45	09/29/15	PES	—	11.49	—	—	—
MW-45	08/15/17	S&W	17.04	11.2	—	0	5.84
MW-45	02/05/18	S&W	17.04	9.84	—	0	7.20
MW-45	03/08/21	S&W	17.043	9.80	—	—	7.243
MW-45	05/04/21	S&W	17.043	10.80	—	—	6.243
MW-45	08/16/21	S&W	17.043	11.20	—	—	5.843
MW-45	11/08/21	S&W	17.043	10.02	—	—	7.023
MW-46	02/23/09	Farallon	17.74	11.99	—	0	5.75
MW-46	05/19/09	Farallon	17.74	12.18	—	0	5.56
MW-46	05/21/09	Farallon	17.74	12.42	—	0	5.32
MW-46	08/25/09	Farallon	17.74	12.61	—	0	5.13
MW-46	12/09/09	Farallon	17.74	11.85	—	0	5.89
MW-46	09/29/15	PES	—	11.95	—	—	—
MW-46	08/15/17	S&W	17.67	12.05	—	0	5.62
MW-46	02/05/18	S&W	17.67	11.14	—	0	6.53
MW-46	03/08/21	S&W	17.67	10.78	—	—	6.89
MW-46	05/04/21	S&W	17.67	11.85	—	—	5.82
MW-46	08/16/21	S&W	17.67	12.08	—	—	5.59
MW-46	11/08/21	S&W	17.67	10.73	—	—	6.94
MW-47	02/23/09	Farallon	20.80	11.47	—	0	9.33
MW-47	05/19/09	Farallon	20.80	15.42	—	0	5.38
MW-47	05/21/09	Farallon	20.80	15.9	—	0	4.90
MW-47	08/25/09	Farallon	20.80	15.6	—	0	5.20
MW-47	12/09/09	Farallon	20.80	14.6	—	0	6.20
MW-47	09/29/15	PES	—	Dry	—	—	—
MW-47	08/15/17	S&W	20.78	15.32	—	0	5.46
MW-47	02/05/18	S&W	20.78	14.9	—	0	5.88
MW-47	03/08/21	S&W	20.778	14.15	—	—	6.628
MW-47	05/04/21	S&W	20.778	15.06	—	—	5.718
MW-47	08/16/21	S&W	20.778	15.00	—	—	5.778
MW-47	11/08/21	S&W	20.778	13.77	—	—	7.008
MW-48	02/23/09	Farallon	17.33	11.44	—	0	5.89
MW-48	05/19/09	Farallon	17.33	11.5	—	0	5.83
MW-48	05/21/09	Farallon	17.33	11.66	—	0	5.67
MW-48	08/25/09	Farallon	17.33	12.01	—	0	5.32
MW-48	12/09/09	Farallon	17.33	11.11	—	0	6.22
MW-48	09/29/15	PES	—	11.65	—	—	—
MW-48	08/15/17	S&W	17.24	11.36	—	0	5.88
MW-48	02/05/18	S&W	17.24	10.02	—	0	7.22
MW-48	10/14/20	S&W	20.778	11.81	—	—	8.968
MW-48	03/08/21	S&W	17.241	9.95	—	—	7.291
MW-48	05/04/21	S&W	17.241	11.00	—	—	6.241
MW-48	08/16/21	S&W	17.241	11.38	—	—	5.861
MW-48	11/08/21	S&W	17.241	10.17	—	—	7.071
MW-49	02/23/09	Farallon	17.33	11.33	—	0	6.00
MW-49	05/19/09	Farallon	17.33	11.23	—	0	6.10
MW-49	08/25/09	Farallon	17.33	11.85	—	0	5.48
MW-49	12/09/09	Farallon	17.33	10.95	—	0	6.38
MW-49	09/29/15	PES	—	11.36	—	—	—

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-49	08/15/17	S&W	17.24	11.15	—	0	6.09
MW-49	02/05/18	S&W	17.24	9.45	—	0	7.79
MW-49	03/08/21	S&W	17.235	9.62	—	—	7.615
MW-49	05/04/21	S&W	17.235	10.61	—	—	6.625
MW-49	08/16/21	S&W	17.235	11.18	—	—	6.055
MW-49	11/08/21	S&W	17.235	10.03	—	—	7.205
MW-50	02/23/09	Farallon	17.69	11.28	—	0	6.41
MW-50	05/19/09	Farallon	17.69	12.16	—	0	5.53
MW-50	05/21/09	Farallon	17.69	15.05	—	0	2.64
MW-50	08/25/09	Farallon	17.69	11.82	—	0	5.87
MW-50	12/09/09	Farallon	17.69	10.41	—	0	7.28
MW-50	09/29/15	PES	—	13.44	—	—	—
MW-50	08/15/17	S&W	17.64	11.41	—	0	6.23
MW-50	02/05/18	S&W	17.64	13.57	—	0	4.07
MW-50	03/08/21	S&W	17.635	11.00	—	—	6.635
MW-50	05/04/21	S&W	17.635	12.62	—	—	5.015
MW-50	08/16/21	S&W	17.635	11.13	—	—	6.505
MW-50	11/08/21	S&W	17.635	11.03	—	—	6.605
MW-51	02/23/09	Farallon	17.46	11.03	—	0	6.43
MW-51	05/19/09	Farallon	17.46	12.17	—	0	5.29
MW-51	05/21/09	Farallon	17.46	14.9	—	0	2.56
MW-51	08/25/09	Farallon	17.46	11.58	—	0	5.88
MW-51	12/09/09	Farallon	17.46	10.22	—	0	7.24
MW-51	09/30/15	PES	—	10.95	—	—	—
MW-51	08/15/17	S&W	17.40	11.18	—	0	6.22
MW-51	02/05/18	S&W	17.40	13.40	—	0	4.00
MW-51	03/08/21	S&W	17.395	10.85	—	—	6.545
MW-51	05/04/21	S&W	17.395	12.42	—	—	4.975
MW-51	08/16/21	S&W	17.395	10.91	—	—	6.485
MW-51	11/08/21	S&W	17.395	10.84	—	—	6.555
MW-52	02/23/09	Farallon	17.67	10.92	—	0	6.75
MW-52	05/19/09	Farallon	17.67	12.15	—	0	5.52
MW-52	05/21/09	Farallon	17.67	16.45	—	0	1.22
MW-52	08/25/09	Farallon	17.67	11.37	—	0	6.30
MW-52	12/09/09	Farallon	17.67	9.74	—	0	7.93
MW-52	09/29/15	PES	—	14.28	—	—	—
MW-52	08/15/17	S&W	17.59	11.15	—	0	6.44
MW-52	02/05/18	S&W	17.59	14.85	—	0	2.74
MW-52	03/08/21	S&W	17.594	11.05	—	—	6.544
MW-52	05/04/21	S&W	17.594	12.99	—	—	4.604
MW-52	08/16/21	S&W	17.594	10.59	—	—	7.004
MW-53	03/08/21	S&W	17.53	10.50	—	—	7.03
MW-53	05/04/21	S&W	17.53	11.23	—	—	6.30
MW-53	08/16/21	S&W	17.53	11.35	—	—	6.18
MW-54	05/04/21	S&W	17.84	11.34	—	—	6.50
MW-54	08/16/21	S&W	17.84	11.57	—	—	6.27
MW-54	11/08/21	S&W	17.84	9.82	—	—	8.02
MW-55	03/08/21	S&W	18.00	8.82	—	—	9.18
MW-55	05/04/21	S&W	18.00	8.64	—	—	9.36
MW-55	08/16/21	S&W	18.00	11.40	—	—	6.60
MW-55	11/08/21	S&W	18.00	9.72	—	—	8.28

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-56	03/08/21	S&W	17.95	10.30	—	—	7.65
MW-56	05/04/21	S&W	17.95	11.36	—	—	6.59
MW-56	08/16/21	S&W	17.95	11.71	—	—	6.24
MW-56	11/08/21	S&W	17.95	10.53	—	—	7.42
MW-57	03/08/21	S&W	17.83	7.40	—	—	10.43
MW-57	05/04/21	S&W	17.83	8.00	—	—	9.83
MW-57	08/16/21	S&W	17.83	10.02	—	—	7.81
MW-57	11/08/21	S&W	17.83	8.98	—	—	8.85
MW-58	03/08/21	S&W	17.95	10.02	—	—	7.93
MW-58	05/04/21	S&W	17.95	10.97	—	—	6.98
MW-58	08/16/21	S&W	17.95	11.57	—	—	6.38
MW-58	11/08/21	S&W	17.95	10.48	—	—	7.47
MW-59	03/08/21	S&W	17.95	9.95	—	—	8.00
MW-59	05/04/21	S&W	17.95	10.89	—	—	7.06
MW-59	08/16/21	S&W	17.95	11.51	—	—	6.44
MW-59	11/08/21	S&W	17.95	10.41	—	—	7.54
MW-60	03/08/21	S&W	17.56	9.66	—	—	7.90
MW-60	05/04/21	S&W	17.56	10.89	—	—	6.67
MW-60	08/16/21	S&W	17.56	11.35	—	—	6.21
MW-60	11/08/21	S&W	17.56	10.24	—	—	7.32
MW-61	03/08/21	S&W	17.91	9.64	—	—	8.27
MW-61	05/04/21	S&W	17.91	10.77	—	—	7.14
MW-61	08/16/21	S&W	17.91	11.67	—	—	6.24
MW-61	11/08/21	S&W	17.91	10.36	—	—	7.55
MW-62	03/08/21	S&W	17.78	7.80	—	—	9.98
MW-62	05/04/21	S&W	17.78	8.38	—	—	9.40
MW-62	11/08/21	S&W	17.78	9.89	—	—	7.89
MW-63	03/08/21	S&W	17.76	10.23	—	—	7.53
MW-63	05/04/21	S&W	17.76	11.25	—	—	6.51
MW-63	08/16/21	S&W	17.76	11.63	—	—	6.13
MW-63	11/08/21	S&W	17.76	10.50	—	—	7.26
MW-64	03/08/21	S&W	17.77	10.21	—	—	7.56
MW-64	05/04/21	S&W	17.77	11.15	—	—	6.62
MW-64	08/16/21	S&W	17.77	11.56	—	—	6.21
MW-64	11/08/21	S&W	17.77	10.34	—	—	7.43
MW-65	03/08/21	S&W	18.11	11.15	—	—	6.96
MW-65	05/04/21	S&W	18.11	11.85	—	—	6.26
MW-65	08/16/21	S&W	18.11	12.21	—	—	5.90
MW-65	11/08/21	S&W	18.11	10.68	—	—	7.43
MW-66	03/08/21	S&W	18.16	8.95	—	—	9.21
MW-66	05/04/21	S&W	18.16	9.46	—	—	8.70
MW-66	08/16/21	S&W	18.16	10.15	—	—	8.01
MW-66	11/08/21	S&W	18.16	9.32	—	—	8.84
MW-67	03/08/21	S&W	17.33	10.57	—	—	6.76
MW-67	05/04/21	S&W	17.33	11.90	—	—	5.43
MW-67	08/16/21	S&W	17.33	11.11	—	—	6.22
MW-67	11/08/21	S&W	17.33	9.85	—	—	7.48
MW-68	03/08/21	S&W	18.3	11.72	—	—	6.58
MW-68	05/04/21	S&W	18.3	13.42	—	—	4.88
MW-68	08/16/21	S&W	18.3	11.38	—	—	6.92
MW-68	11/08/21	S&W	18.3	11.62	—	—	6.68

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-69	03/08/21	S&W	17.99	11.00	—	—	6.99
MW-69	05/04/21	S&W	17.99	12.94	—	—	5.05
MW-69	08/16/21	S&W	17.99	10.91	—	—	7.08
MW-69	11/08/21	S&W	17.99	11.18	—	—	6.81
MW-70	03/08/21	S&W	17.81	11.20	—	—	6.61
MW-70	05/04/21	S&W	17.81	12.72	—	—	5.09
MW-70	08/16/21	S&W	17.81	10.85	—	—	6.96
MW-70	11/08/21	S&W	17.81	10.98	—	—	6.83
MW-71	03/08/21	S&W	18.08	10.58	—	—	7.50
MW-71	05/04/21	S&W	18.08	11.60	—	—	6.48
MW-71	08/16/21	S&W	18.08	11.90	—	—	6.18
MW-71	11/08/21	S&W	18.08	10.72	—	—	7.36
MW-72	03/08/21	S&W	18.2	10.18	—	—	8.02
MW-72	05/04/21	S&W	18.2	11.19	—	—	7.01
MW-72	08/16/21	S&W	18.2	11.78	—	—	6.42
MW-72	11/08/21	S&W	18.2	10.70	—	—	7.50
MW-73	03/08/21	S&W	17.66	8.56	—	—	9.10
MW-73	05/04/21	S&W	17.66	8.85	—	—	8.81
MW-73	08/16/21	S&W	17.66	11.32	—	—	6.34
MW-73	11/08/21	S&W	17.66	10.17	—	—	7.49
MW-74	03/08/21	S&W	17.89	10.30	—	—	7.59
MW-74	05/04/21	S&W	17.89	11.20	—	—	6.69

Table 2: Summary of Water Level Measurements, LNAPL Thickness, and Groundwater Elevation Data

Monitoring Well ID	Date	Collected By	Top of Casing Elevation (feet NAVD88)[1]	Depth to Water (feet)[2]	Depth to LNAPL (feet)[2]	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-74	08/16/21	S&W	17.89	11.69	—	—	6.20
MW-74	11/08/21	S&W	17.89	10.55	—	—	7.34
MW-75	03/08/21	S&W	17.86	9.92	—	—	7.94
MW-75	05/04/21	S&W	17.86	9.15	—	—	8.71
MW-75	08/16/21	S&W	17.86	10.92	—	—	6.94
MW-75	11/08/21	S&W	17.86	10.31	—	—	7.55
MW-76	03/08/21	S&W	17.98	9.86	—	—	8.12
MW-76	05/04/21	S&W	17.98	11.39	—	—	6.59
MW-76	08/16/21	S&W	17.98	11.80	—	—	6.18
MW-76	11/08/21	S&W	17.98	10.71	—	—	7.27

NOTES:

Summarized conditions at the time of the Remedial Investigation.

1 Elevation of top of casing in feet relative to NAVD88, surveyed by True North Land Surveying, Inc., Seattle, Washington, August 2017 and April 20, 2021, Bench Mark: 2" Brass Disc City of Seattle "3773-5101", located at the northeast corner of South 87th Street and East Marginal Way, Elevation 18.499 feet.

2017 and 2021 surveys did not include decommissioned or inaccessible wells (MW-1, MW-2, MW-5, MW-10, MW-12, MW-13, MW-22, MW-33, PL2-JF01A, PL2-JF01AR, PL2-JF01B, PL2-JF01C, PL2-JF02A, PL2-JF03A, and PLW-JF04A); MW-20; and MW-32. Elevations for these locations surveyed by PLS, Inc., Issaquah, Washington, August 2003 and March 2009, City of Seattle Benchmark No. SNV-5293.

2 Depth measured from the top of casing.

3 Calculated groundwater elevation in feet relative to NAVD88. Elevations measured in wells with LNAPL corrected using LNAPL specific gravity.

* = LNAPL thickness as observed within the polyethylene bailer.

** = measurement affected by instrument error.

> indicates that the depth to water/bottom of LNAPL was not measured and LNAPL was present at greater than the thickness indicated.

— = not measured, not applicable, not reported, or not available. Information presented in this table includes values measured by several consultants over a period of 28 years. In some instances, a — is present where a value was not reported by the consultant who performed the monitoring event. Because we do not have field notes from the event, we have not used the reported values to perform calculations.

Farallon = Farallon Consulting, Inc.; LNAPL = light nonaqueous phase liquid; NAVD88 = North American Vertical Datum of 1988; PES = PES Environmental, Inc.; S&W = Shannon & Wilson

Table 3: Soil Summary of Analyses

Location ID	Location Description	Rationale	Depth (feet bgs)	Sample ID	Petroleum Hydrocarbons			VOCs		SVOCs			Metals													Hex Chrome	Physical Tests			
					TPH-G	TPH-Dx	Extractable and Volatile Petroleum	BTEX	HVOCs	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Grain Size	Porosity	Total Organic Carbon	Total Solids
A1-02A	Area 1 LNAPL Plume-Center Boring	Provide vertical delineation of LNAPL extent and residual soil contamination.	5	A1-02A:5-11032020		X																							
			5‡	A1-100:5-11032020		X																							
			10	A1-02A:10-11032020		X																							
			12.8	A1-02A:12.8-11032020		X																							
			18	A1-02A:18-11032020		X																							
			25	A1-02A:25-11032020		X																							
A2-07A	Area 2 LNAPL Plume-Center Boring.	Provide vertical delineation of LNAPL extent and residual soil contamination.	12	A2-07A:12-11052020	X	X																							
			13.5	A2-07A:13.5-11052020	X	X																							
			18	A2-07A:18-11052020	X	X																							
			25	A2-07A:25-11052020	X	X																							
A2-16A	Area 2 LNAPL Plume-Center Boring.	Provide vertical delineation of LNAPL extent and residual soil contamination.	9.5	A2-16A:9.5-11062020	X	X																							
			12.5	A2-16A:12.5-11062020	X	X																							
			18	A2-16A:18-11062020	X	X																							
HA-2020-001	Melt Shop Area in Transformer Room	Area of exposed soil.	0	HA-2020-001:0-11022020								X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			0.5	HA-2020-001:0.5-11022020									X	X	X	X		X		X	X	X	X	X	X	X				
HA-2020-002	Melt Shop Area	Area of exposed soil.	0	HA-2020-002:0-11022020								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
			0.5	HA-2020-002:0.5-11022020								X		X	X	X		X		X		X	X	X	X	X				
HA-2020-003	Melt Shop Area	Area of exposed soil.	0	HA-2020-003:0-11022020								X	X	X		X		X		X		X	X	X	X	X				
			0.2	HA-2020-003:0.2-11022020								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
			0.2‡	HA-2020-100:0.2-11022020								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
			0.7	HA-2020-003:0.7-11022020								X	X	X		X		X		X		X	X	X	X	X				
HA-2020-004	Forge Shop Area	Area of exposed soil.	0	HA-2020-004:0-11022020									X	X		X	X	X		X		X	X		X					
			0.2	HA-2020-004:0.2-11022020									X	X	X	X	X	X	X	X	X	X	X	X	X	X				
			0.7	HA-2020-004:0.7-11022020									X	X		X	X	X		X		X	X	X	X					
HA-2020-005	Forge Shop Area	Area of exposed soil.	0	HA-2020-005:0-11022020									X	X	X	X	X	X	X	X	X	X	X	X	X	X				
			0.5	HA-2020-005:0.5-11022020								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
HA-2020-006	Forge Shop Area	Area of exposed soil.	0	HA-2020-006:0-11022020									X			X		X				X	X	X	X					
			0.3	HA-2020-006:0.3-11022020									X	X	X	X	X	X	X	X	X	X	X	X	X	X				
			0.8	HA-2020-006:0.8-11022020									X			X		X				X	X	X	X					

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					TPH-G	TPH-Dx	Extractable and Volatile Petroleum	BTEX	HVOCs	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Grain Size	Porosity	Total Organic Carbon	Total Solids
HA-2020-007	Forge Shop Area	Area of exposed soil.	0	HA-2020-007:0-11022020										X	X		X	X	X		X		X	X	X	X	X				
			0.25	HA-2020-007:0.25-11022020										X	X	X	X	X	X		X	X	X	X	X	X	X				
			0.8	HA-2020-007:0.8-11022020										X	X		X	X	X		X		X	X	X	X	X				
HA-2020-008	Heat Treat Area	Area of exposed soil.	0	HA-2020-008:0-11022020										X	X	X	X	X	X		X	X	X	X	X	X	X				
			0.5	HA-2020-008:0.5-11022020										X	X	X	X		X		X		X	X	X	X	X				
MW-10R	W of Decommissioned Oil Storage Area	Replace decommissioned well MW-10.	2	MW-10R:2-02052021		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			5.4	MW-10R:5.4-02052021		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			9	MW-10R:9-02052021		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			9‡	MW-104:9-02052021		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			15	MW-10R:15-02052021						X																					
MW-22R	Outside and SW of Hollowbore Area	Installed to replace lost well MW-22.	1	MW-22R:1.0-02032021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			5.5	MW-22R:5.5-02032021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			9	MW-22R:9.0-02032021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			15.5	MW-22R:15.5-02032021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			20.5	MW-22R:20.5-02032021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
MW-53	Shoreline W of Melt Bag House	Monitor shoreline.	1	MW-53:1-02032021		X		X	X	X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			9.5	MW-53:9.5-02032021		X				X			X	X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	
			11	MW-53:11-02032021		X				X			X	X	X	X	X	X	X		X	X	X	X	X	X	X		X			
			15.8	MW-53:15.8-02032021						X			X																		X	X
MW-54	Shoreline S of Liquid Cooling Gas Storage	Monitor shoreline.	1	MW-54:1-02032021		X		X	X	X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			5.5	MW-54:5.5-02032021		X		X	X	X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			5.5‡	MW-102:5.5-02032021		X		X	X	X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			9	MW-54:9-02032021		X		X	X	X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			10.5-13	MW-54:10.5-13:02032021																										X		
			14.5	MW-54:14.5-02042021								X																				
			17-19.5	MW-54:17-19.5:02042021																										X		
MW-55	Outside and NW of Hollowbore Area	Monitor Area 1 LNAPL plume to the NW.	1.5	MW-55:1.5-02032021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X	X	X			
			5.5	MW-55:5.5-02032021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X	X				
			9.5	MW-55:9.5-02032021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X	X	X			
			15.5	MW-55:15.5-02032021						X				X	X	X	X	X	X	X	X		X	X	X	X	X					

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					TPH-G	TPH-Dx	Extractable and Volatile Petroleum	BTEX	HVOCs	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Grain Size	Porosity	Total Organic Carbon	Total Solids
MW-56	Outside and SW of Hollowbore Area	Monitor Area 1 LNAPL plume to the SW.	1	MW-56:1.0-02022021		X				X				X	X	X	X	X	X		X	X	X	X	X	X					
			5.5	MW-56:5.5-02022021		X				X				X	X	X	X	X	X		X	X	X	X	X	X					
			8	MW-56:8.0-02022021		X				X				X	X	X	X	X	X		X	X	X	X	X	X					
			8‡	MW-101:8.0-02022021		X				X				X	X	X	X	X	X		X	X	X	X	X	X					
MW-57	South of Hollowbore Area	Monitor Area 1 LNAPL plume to the SE.	10	MW-57:10-01272021		X				X				X	X	X	X	X	X		X	X	X	X	X	X					
			5	MW-57:5-01272021		X				X				X	X	X	X	X	X		X	X	X	X	X	X					
			6	MW-57:6-01272021		X				X				X	X	X	X	X	X		X	X	X	X	X	X					
			15.3	MW-57:15.3-01272021						X																					
MW-58	East of Hollowbore Area	Monitor Area 1 LNAPL plume to the E. Evaluate Shipping Area.	1.5	MW-58:1.5-01272021		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X					
			5.5	MW-58:5.5-01272021		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X		X			
			8.4	MW-58:8.4-01272021		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X					
			15	MW-58:15-01272021						X																					
MW-59	Outside and N of Hollowbore Area	Monitor Area 1 LNAPL plume to the N.	1	MW-59:1.0-02032021		X				X				X	X	X	X	X	X		X	X	X	X	X	X					
			6.5	MW-59:6.5-02032021		X				X				X	X	X	X	X	X		X	X	X	X	X	X					
			9.5	MW-59:9.5-02032021		X				X				X	X	X	X	X	X		X	X	X	X	X	X					
MW-60	Forge Shop Area	Monitor Area 2 LNAPL plume to the W.	1.5	MW-60:1.5-02012021	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X					
			5	MW-60:5-02012021	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X		X		X	
			9	MW-60:9-02012021	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X		X		X	
MW-61	Forge Shop Area	Monitor Area 2 LNAPL plume to the W.	1.5	MW-61:1.5-02012021	X	X				X		X		X	X	X	X	X	X		X	X	X	X	X	X					
			6	MW-61:6-02012021	X	X				X		X		X	X	X	X	X	X		X	X	X	X	X	X				X	
			9	MW-61:9-02012021																								X			
			11	MW-61:11-02012021	X	X				X		X		X	X	X	X	X	X		X	X	X	X	X	X		X		X	
			16	MW-61:16-02012021										X	X	X	X	X	X	X	X		X	X	X	X	X					
MW-62	W of MW-10R and Large Hypro.	Monitor downgradient of MW-10R and downgradient of Large Hypo.	1	MW-62:1-01272021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				X
			5	MW-62:5-01272021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				X
			8.6	MW-62:8.6-01272021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				X
			15	MW-62:15-01272021						X																					

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MW-64	W of MW-40/MW-41	Monitor deeper zone downgradient of MW-40 and MW-41.	5.2	MW-64:5.2-01282021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				X
			9	MW-64:9.0-01282021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				X
			14	MW-64:14.0-01282021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				X
MW-65	NW of Stormwater Treatment System	Monitor Former Bethlehem Steel Facility footprint with former embayment.	20	MW-65:20-02052021		X		X	X	X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
MW-66	W of Truck Scale Located along N Property Boundary	Monitor N property boundary. Assess former Bethlehem Steel galvanizing plant.	1.2	MW-66:1.2-0112521		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			5.5	MW-66:5.5-0112521		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	X
			10	MW-66:10.0-0112521		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X					
			15.5	MW-66:15.5-012521										X	X	X	X	X	X	X	X		X	X	X	X	X	X		X		X	X
MW-67	SW of Former Metals Storage Area bins	Monitor within the Former Metals Storage Area and unpaved slag storage area.	0.5	MW-67:0.5-01262021		X			X	X				X	X	X	X	X	X		X	X	X	X	X	X	X	X				X
			5.5	MW-67:5.5-01262021		X			X	X				X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X
			9	MW-67:9.0-01262021		X			X	X				X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X
			16	MW-67:16.0-01262021					X																							
			20.5	MW-67:20.5-01262021					X																							
MW-68	W of Former Metals Storage Area	Monitor downgradient of Former Metals Storage Area.	8.5	MW-68:8.5-02022021			X	X	X			X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			15.5	MW-68:15.5-02022021						X				X	X	X	X	X	X	X	X		X	X	X	X	X	X				
MW-70	NW of Black Shack Motor Storage	Monitoring deeper zone in NW corner of property.	0	MW-70:0-02022021	X	X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			4.3	MW-70:4.3-02022021	X	X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				X
			8	MW-70:8-02022021	X	X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			12-14.5	MW-70:12-14.5:02022021																									X			
			15	MW-70:15-02022021						X																					X	
			16.5-19	MW-70:16.5-19:02022021																									X			
			35	MW-70:35-02032021				X	X																							
			45	MW-70:45-02032021				X	X																							
			55	MW-70:55-02032021				X	X																							
MW-71	N Property Boundary E of Truck Scale	Monitor N property boundary.	1.5	MW-71:1.5-02042021		X		X	X		X			X	X	X	X	X	X		X	X	X	X	X	X	X				
			5	MW-71:5.0-02042021		X		X	X		X			X	X	X	X	X	X		X	X	X	X	X	X	X				
			8.5	MW-71:8.5-02042021		X		X	X		X			X	X	X	X	X	X		X	X	X	X	X	X	X				
			15.5	MW-71:15.5-02042021				X	X	X																						
			20.5	MW-71:20.5-02042021				X	X																							

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MW-72	E of Decommissioned Diesel Storage Area	Provide monitoring well upgradient of the Decommissioned Diesel Storage Area.	1	MW-72:1-022022021		X						X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			5	MW-72:5-022022021		X						X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			10.9	MW-72:10.9-022022021		X						X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			15	MW-72:15-02022021										X	X	X	X	X	X	X	X		X	X	X	X	X	X				
MW-73	Within Aluminum Heat Treat Building	Monitor Area 2 LNAPL plume to the E.	3.2	MW-73:3.2-02022021	X	X		X	X	X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			7	MW-73:7-02022021	X	X		X	X	X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			11	MW-73:11-02022021	X	X	X	X	X	X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			15	MW-73:15-02022021	X	X		X	X	X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			17.7	MW-73:17.7-02022021	X	X		X	X	X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
MW-74	W of Ring Expander Vault	Evaluate ring expander vault and hydraulic oil tank.	3	MW-74:3-02022021		X				X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			6	MW-74:6-02022021		X				X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			10.3	MW-74:10.3-02022021		X				X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			10.3‡	MW-101:10.3-02022021		X				X			X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			15	MW-74:15-02022021										X	X	X	X	X	X	X	X		X	X	X	X	X	X				
MW-75	Machine Shop Area	Evaluate Machine Shop Area	1.5	MW-75:1.5-01282021		X		X	X					X	X	X	X	X	X		X	X	X	X	X	X	X				
			6	MW-75:6.0-01282021		X		X	X					X	X	X	X	X	X		X	X	X	X	X	X	X				
			8.5	MW-75:8.5-01282021		X		X	X					X	X	X	X	X	X		X	X	X	X	X	X	X				
			16	MW-75:16.0-01282021				X																								
			21	MW-75:21.0-01282021				X																								
MW-76	SE of Truck Scale	Coverage within Former BSF footprint.	1.5	MW-76:1.5-01262021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			5	MW-76:5.0-01262021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			5‡	MW-100:5.0-01262021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			15.5	MW-76:15.5-01262021						X				X	X	X	X	X	X	X	X		X	X	X	X	X	X				
SB-2020-001	W of bar peeler	Evaluate in vicinity of FB-3 TPH-O detection.	2.2	SB-2020-001:2.2-11032020		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			6.8	SB-2020-001:6.8-11032020		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
SB-2020-004	Heat Treat Area	Coverage within center of main building. Investigate Quench Tanks 1, 2, and 3 vault.	2.5	SB-2020-004:2.5-11062020		X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	X
			8	SB-2020-004:8-11062020		X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	X
			13	SB-2020-004:13-11062020		X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	X
			17	SB-2020-004:17-11062020		X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	X
			17‡	SB-2020-101:17-11062020		X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	X
			21	SB-2020-004:21-11062020		X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	X
			27	SB-2020-004:27-11062020		X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	X

Table 3: Soil Summary of Analyses

Location ID	Location Description	Rationale	Depth (feet bgs)	Sample ID	Petroleum Hydrocarbons			VOCs		SVOCs			Metals													Hex Chrome	Physical Tests			
					TPH-G	TPH-Dx	Extractable and Volatile Petroleum	BTEX	HVOCs	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Grain Size	Porosity	Total Organic Carbon	Total Solids
SB-2020-005	W of Melt Bag House	Coverage within Former BSF footprint.	1	SB-2020-005:1-11042020		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			6	SB-2020-005:6-11042020		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			12	SB-2020-005:12-11042020		X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			20	SB-2020-005:20-11042020						X																					
SB-2020-007	E of Melt Bag House	Coverage within Former BSF footprint.	1.2-2.8	SB-2020-007:1.2-2.8-11042020		X				X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			6-7	SB-2020-007:6-7-11042020		X				X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			10-10.9	SB-2020-007:10-10.9-		X				X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			20-21.4	SB-2020-007:20-21.4-						X		X		X								X									
			23-24.6	SB-2020-007:23-24.6-						X		X																			
SB-2020-008	E MW-6	Coverage within Former BSF footprint.	2	SB-2020-008:2-11052020		X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			5.5	SB-2020-008:5.5-11052020		X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			11.5	SB-2020-008:11.5-11052020		X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			20	SB-2020-008:20-11052020						X																					
SB-2020-013	W of Former Acid Pit	Evaluate metals and PCBs along shoreline.	1.5	SB-2020-013:1.5-11052020		X				X		X		X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	X
			6	SB-2020-013:6-11052020		X				X		X		X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	X
			11.5	SB-2020-013:11.5-11052020		X				X		X		X	X	X	X	X	X		X	X	X	X	X	X	X		X		X	X
			20.5	SB-2020-013:20.5-11052020						X		X																				
			23	SB-2020-013:23-11052020						X		X																				
SB-2020-014	NW of Black Shack Motor Storage	Evaluate TPH and PCBs in NW corner or property.	1.5	SB-2020-014:1.5-11052020	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			7	SB-2020-014:7-11052020	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			11	SB-2020-014:11-11052020	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			11‡	SB-2020-100:11-11052020	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			18	SB-2020-014:18-11052020						X		X																				
			23	SB-2020-014:23-11052020						X		X																				
SB-2020-015	E of Black Shack Motor Storage	Evaluate TPH and metals in NW corner or property.	1	SB-2020-015:1-11042020	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			7	SB-2020-015:7-11042020	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			13	SB-2020-015:13-11042020	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			20.5	SB-2020-015:20.5-11042020		X								X	X	X	X	X	X		X	X	X	X	X	X	X				
			23	SB-2020-015:23-11042020															X			X									
SB-2020-016	S of Black Shack Motor Storage	Evaluate TPH and PCBs in NW corner or property.	2	SB-2020-016:2-11042020	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			7	SB-2020-016:7-11042020	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			12	SB-2020-016:12-11042020	X	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
SB-2020-028	Machine Shop Area	Evaluate a historic high TPH-O detection and the Large Bullard feature.	2.3	SB-2020-028:2.3-11032020		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			6.8	SB-2020-028:6.8-11032020		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				

Table 3: Soil Summary of Analyses

Location ID	Location Description	Rationale	Depth (feet bgs)	Sample ID	Petroleum Hydrocarbons			VOCs		SVOCs			Metals													Hex Chrome	Physical Tests			
					TPH-G	TPH-Dx	Extractable and Volatile Petroleum	BTEX	HVOCs	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Grain Size	Porosity	Total Organic Carbon	Total Solids
SB-2020-029	Machine Shop Area	Evaluate a historic high TPH-O detection and the Large Bullard feature	3.2	SB-2020-029:3.2-11032020	X	X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			7.5	SB-2020-029:7.5-11032020	X	X				X			X	X	X	X	X	X		X	X	X	X	X	X					
SB-2020-045	Machine Shop Area	Evaluate Machine Shop Area. Investigate Large Bullard.	2.8	SB-2020-045:2.8-11032020	X	X		X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X					
			7.2	SB-2020-045:7.2-11032020	X	X		X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X					
SB-2021-002	Machine Shop Area	Evaluate a historic high TPH-O detection and the Large Bullard feature	3	SB-2021-002:3-01282021		X				X		X	X	X	X	X	X	X		X	X	X	X	X	X					
			6	SB-2021-002:6-01282021		X				X		X	X	X	X	X	X	X		X	X	X	X	X	X					
			6‡	SB-2021-105:6-01282021		X				X		X	X	X	X	X	X	X		X	X	X	X	X	X					
SB-2021-003	Machine Shop Area	Coverage within center of main building. Investigate West and East Craven Vaults.	2	SB-2021-003:2-01262020		X		X	X	X			X	X	X	X	X	X		X	X	X	X	X	X					
			10.3	SB-2021-003:10.3-01262020		X		X	X	X			X	X	X	X	X	X		X	X	X	X	X	X					
			11.5	SB-2021-003:11.5-01262020		X		X	X	X			X	X	X	X	X	X		X	X	X	X	X	X					
SB-2021-006	Forge Shop Area	Coverage within Forge Shop Area.	1.5	SB-2021-006:1.5-01292021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			6	SB-2021-006:6-01292021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			10	SB-2021-006:10-01292021	X	X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			20	SB-2021-006:20-01292021	X	X				X																				
SB-2021-009	SW of Former Steam Clean Area	Coverage within Former BSF footprint. Evaluate Former Steam Clean Area.	2	SB-2021-009:2-01252021	X	X		X	X	X			X	X	X	X	X	X		X	X	X	X	X	X					
			6	SB-2021-009:6-01252021	X	X		X	X	X			X	X	X	X	X	X		X	X	X	X	X	X					
			10.8	SB-2021-009:10.8-01252021	X	X		X	X	X			X	X	X	X	X	X		X	X	X	X	X	X					
			13.3	SB-2021-009:13.3-01252021									X	X	X	X	X	X	X	X		X	X	X	X	X					
SB-2021-010	NE of Arc Furnace Vault	Coverage within Former Melt Shop.	1.5	SB-2021-010:1.5-01282021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			6	SB-2021-010:6-01282021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			6‡	SB-2021-104:6-01282021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			11	SB-2021-010:11-01282021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
SB-2021-011	W of Former Metals Storage Area	Coverage W of Former Metals Storage Area and within unpaved slag storage area.	1	SB-2021-011:1-01252021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			1‡	SB-2021-101:1-01252021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			3	SB-2021-011:3-01252021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			10	SB-2021-011:10-01252021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
SB-2021-012	N of Swarf Stockpile Area	Evaluate NE portion of Former Metals Storage Area.	2	SB-2021-012:2-01252021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			3.4	SB-2021-012:3.4-01252021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
			10.4	SB-2021-012:10.4-01252021		X				X			X	X	X	X	X	X		X	X	X	X	X	X					
SB-2021-017	W of Truck Scale	Coverage in north portion of property.	2	SB-2021-017:2-01252021	X	X		X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X					
			5	SB-2021-017:5-01252021	X	X		X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X					
			10.5	SB-2021-017:10.5-01252021	X	X		X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X					

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Location ID	Location Description	Rationale	Depth (feet bgs)	Sample ID	Petroleum Hydrocarbons			VOCs		SVOCs			Metals											Hex Chrome	Physical Tests			
					TPH-G	TPH-Dx	Extractable and Volatile Petroleum	BTEX	HVOCs	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Grain Size	Porosity	Total Organic Carbon	Total Solids
SB-2021-018	NW Corner of Property near North Boundary	Provide further delineation of PCBs from Boeing OA-11.	1.5	SB-2021-018:1.5-01272021		X						X																		
			2.5	SB-2021-018:2.5-01272021		X						X																		
			5.5	SB-2021-018:5.5-01272021		X						X																		
			7.2	SB-2021-018:7.2-01272021		X						X																		
			8.2	SB-2021-018:8.2-01272021		X						X																		
			11	SB-2021-018:11-01272021		X																								
SB-2021-019	NW Corner of Property near North Boundary	Provide further delineation of PCBs from Boeing OA-11.	0.8	SB-2021-019:0.8-01272021		X						X																		
			2.5	SB-2021-019:2.5-01272021		X						X																		
			5	SB-2021-019:5-01272021		X						X																		
			7	SB-2021-019:7-01272021		X						X																		
SB-2021-020	NW Corner of Property near North Boundary	Provide further delineation of PCBs from Boeing OA-11.	1.5	SB-2021-020:1.5-01272021		X						X																		
			2.2	SB-2021-020:2.2-01272021		X						X																		
			6	SB-2021-020:6-01272021		X						X																		
			7	SB-2021-020:7-01272021		X						X																		
SB-2021-021	NW Corner of Property near North Boundary	Provide further delineation of PCBs from Boeing OA-11.	1.5	SB-2021-021:1.5-01272021		X						X																		
			2.5	SB-2021-021:2.5-01272021		X						X																		
			2.5‡	SB-2021-103:2.5-01272021		X						X																		
			5.2	SB-2021-021:5.2-01272021		X						X																		
			7	SB-2021-021:7-01272021		X						X																		
SB-2021-022	NW Corner of Property near North Boundary	Provide further delineation of PCBs from Boeing OA-11.	1.5	SB-2021-022:1.5-01272021		X						X																		
			2.5	SB-2021-022:2.5-01272021		X						X																		
			5.5	SB-2021-022:5.5-01272021		X						X																		
			7	SB-2021-022:7-01272021		X						X																		
SB-2021-023	NW Corner of Property near North Boundary	Provide further delineation of PCBs from Boeing OA-11.	1.5	SB-2021-023:1.5-01272021		X						X																		
			2.7	SB-2021-023:2.7-01272021		X						X																		
			5.5	SB-2021-023:5.5-01272021		X						X																		
			7	SB-2021-023:7-01272021		X						X																		
SB-2021-024	NW Corner of Property near North Boundary	Provide further delineation of PCBs from Boeing OA-11.	0.5	SB-2021-024:0.5-01272021		X						X																		
			2.4	SB-2021-024:2.4-01272021		X						X																		
			5.6	SB-2021-024:5.6-01272021		X						X																		
			7	SB-2021-024:7-01272021		X						X																		
SB-2021-025	NW Corner of Property near North Boundary	Provide further delineation of PCBs from Boeing OA-11.	1.5	SB-2021-025:1.5-01272021		X						X																		
			2.5	SB-2021-025:2.5-01272021		X						X																		
			5.5	SB-2021-025:5.5-01272021		X						X																		
			6.5	SB-2021-025:6.5-01272021		X						X																		
			10	SB-2021-025:10-1272021								X																		
			11	SB-2021-025:11-1272021								X																		

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Location ID	Location Description	Rationale	Depth (feet bgs)	Sample ID	Petroleum Hydrocarbons			VOCs		SVOCs			Metals													Hex Chrome	Physical Tests			
					TPH-G	TPH-Dx	Extractable and Volatile Petroleum	BTEX	HVOCs	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Grain Size	Porosity	Total Organic Carbon	Total Solids
SB-2021-026	NW Corner of Property near North Boundary	Provide further delineation of PCBs from Boeing OA-11.	1.5	SB-2021-026:1.5-01272021		X						X																	
			3	SB-2021-026:3-01272021		X						X																	
			5.5	SB-2021-026:5.5-01272021		X						X																	
			7	SB-2021-026:7-01272021		X						X																	
SB-2021-027	Machine Shop Area	Evaluate Machine Shop Area. Investigate Tacchi Lathe vault.	2.2	SB-2021-027:2.2-01282021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			5.3	SB-2021-027:5.3-01282021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			10	SB-2021-027:10-01282021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
SB-2021-033	Former unregistered 2,000-gallon UST	Evaluate for compliance at location of former UST.	11	SB-2021-033:11-01262021	X	X		X	X																						
			15	SB-2021-033:15-01262021	X	X		X																							
			18	SB-2021-033:18-01262021	X	X		X																							
SB-2021-034	Former unregistered 1,000-gallon UST	Evaluate for compliance at location of former UST.	10.7	SB-2021-034:10.7-01252021	X	X		X	X																						
			10.7‡	SB-2021-102:10.7-01252021	X	X		X	X																						
			15	SB-2021-034:15-01252021	X	X		X																							
			21	SB-2021-034:21-01252021	X	X		X																							
SB-2021-035	Former registered 8,000-gallon UST	Evaluate for compliance at location of former UST.	11	SB-2021-035:11-01262021	X	X		X																							
			13.8	SB-2021-035:13.8-01262021	X	X		X																							
SB-2021-038	Heat Treat Area	Coverage within center of main building. Investigate West and East Craven Vaults.	2	SB-2021-038:2-01262021		X				X	X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			6.9	SB-2021-038:6.9-01262021		X				X	X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			7.6	SB-2021-038:7.6-01262021		X				X	X		X	X	X	X	X	X		X	X	X	X	X	X	X				
			12.9	SB-2021-038:12.9-1262021						X																					
SB-2021-039	N of Former Steam Clean Area	Coverage within Former BSF footprint. Evaluate Former Steam Clean Area.	2	SB-2021-039:2-01252021	X	X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			7.4	SB-2021-039:7.4-01252021	X	X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			10.7	SB-2021-039:10.7-01252021	X	X		X	X	X				X	X	X	X	X	X		X	X	X	X	X	X	X				
SB-2021-040	W of Arc Furnace Vault	Complete coverage within Former Melt Shop.	2	SB-2021-040:2-01282021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			5	SB-2021-040:5-01282021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			10.4	SB-2021-040:10.4-01282021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			13.7	SB-2021-040:13.7-01282021						X																					
SB-2021-041	E of Diesel Fueling and Used Oil Storage Building	Evaluate Diesel Fueling and Used Oil Storage Building.	2	SB-2021-041:2-01282021	X	X		X	X	X	X			X	X	X	X	X	X		X	X	X	X	X	X	X				
			2‡	SB-2021-106:2-01282021	X	X		X	X	X	X			X	X	X	X	X	X		X	X	X	X	X	X	X				
			6	SB-2021-041:6-01282021	X	X		X	X	X	X			X	X	X	X	X	X		X	X	X	X	X	X	X				
			10.5	SB-2021-041:10.5-01282021	X	X		X	X	X	X			X	X	X	X	X	X		X	X	X	X	X	X	X				
			13.3	SB-2021-041:13.3-01282021	X			X	X	X																					
			19	SB-2021-041:19-01282021	X			X	X																						
			23	SB-2021-041:23-01282021	X			X	X																						

Table 3: Soil Summary of Analyses

Location ID	Location Description	Rationale	Depth (feet bgs)	Sample ID	Petroleum Hydrocarbons: TPH-G	Petroleum Hydrocarbons: TPH-Dx	Petroleum Hydrocarbons: Extractable and Volatile Petroleum	VOCs: BTEX	VOCs: HVOCs	SVOCs: PAHs	SVOCs: Limited List SVOCs	SVOCs: Full List SVOCs	SVOCs: PCB Aroclors	Metals: Arsenic	Metals: Barium	Metals: Cadmium	Metals: Chromium	Metals: Cobalt	Metals: Copper	Metals: Iron	Metals: Lead	Metals: Mercury	Metals: Nickel	Metals: Selenium	Metals: Silver	Metals: Vanadium	Metals: Zinc	Hex Chrome: Hex Chrome	Physical Tests: Grain Size	Physical Tests: Porosity	Physical Tests: Total Organic Carbon	Physical Tests: Total Solids
SB-2021-042	Adjacent to the 24-inch JFOS Pipe	Evaluate decommissioned 24-inch pipe.	11	SB-2021-042:11-01292021		X				X			X																		
			11‡	SB-2021-106:11-01292021		X				X			X																		
SB-2021-043			9.5	SB-2021-043:9.5-01292021		X				X			X																		
SB-2021-044			12	SB-2021-044:12-02052021		X				X			X																		
SB-2021-046	Outside and N of Hollowbore Area	Investigate Heating Oil UST	2	SB-2021-046:2-01262021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			5.6	SB-2021-046:5.6-01262021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			10.7	SB-2021-046:10.7-01262021		X				X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			13.9	SB-2021-046:13.9-1262021						X				X	X	X	X	X	X	X	X		X	X	X	X	X				
SB-2021-047	S of Forge Shop along Property Boundary	Due to noted petroleum odor at boring SB-2021-006, an additional boring (SB-2021-047) was completed outside and south of the main building.	1.5	SB-2021-047:1.5-02022021	X	X		X		X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			7.1	SB-2021-047:7.1-02022021	X	X		X		X				X	X	X	X	X	X		X	X	X	X	X	X	X				
			10.5	SB-2021-047:10.5-02022021						X			X	X	X	X	X	X	X	X	X		X	X	X	X	X				
SB-2021-048	SW Corner of the Property	Investigate S of Boeing OA-11 Area.	1.5	SB-2021-048:1.5-10042021	X								X																		
			2.2	SB-2021-048:2.2-10042021	X								X																		
			6	SB-2021-048:6-10042021	X								X																		
			8.5	SB-2021-048:8.5-10042021	X								X																		
SB-2021-049	SW Corner of the Property	Investigate S of Boeing OA-11 Area.	1	SB-2021-049:1-10042021	X								X																		
			2.2	SB-2021-049:2.2-10042021	X								X																		
			6.5	SB-2021-049:6.5-10042021	X								X																		
			7.5	SB-2021-049:7.5-10042021	X								X																		
SB-2021-050	SW Corner of the Property	Investigate S of Boeing OA-11 Area.	0.5	SB-2021-050:0.5-10042021	X								X																		
			2.5	SB-2021-050:2.5-10042021	X								X																		
			6.5	SB-2021-050:6.5-10042021	X								X																		
			7.5	SB-2021-050:7.5-10042021	X								X																		
SB-2021-051	SW Corner of the Property	Investigate S of Boeing OA-11 Area.	1.2	SB-2021-051:1.2-10042021	X								X																		
			2.4	SB-2021-051:2.4-10042021	X								X																		
			6.5	SB-2021-051:6.5-10042021	X								X																		
			8	SB-2021-051:8.0-10042021	X								X																		
			10.5	SB-2021-051:10.5-10042021	X								X																		
			12.5	SB-2021-051:12.5-10042021	X								X																		

Table 3: Soil Summary of Analyses

Location ID	Location Description	Rationale	Depth (feet bgs)	Sample ID	Petroleum Hydrocarbons			VOCs		SVOCs			Metals													Hex Chrome	Physical Tests			
					TPH-G	TPH-Dx	Extractable and Volatile Petroleum	BTEX	HVOCs	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Grain Size	Porosity	Total Organic Carbon	Total Solids
SB-2021-052	SW Corner of the Property	Investigate S of Boeing OA-11 Area.	0.1	SB-2021-052:0.1-10042021		X						X																	
			2.4	SB-2021-052:2.4-10042021		X						X																		
			6	SB-2021-052:6.0-10042021		X						X																		
			7.7	SB-2021-052:7.7-10042021		X						X																		
SB-2021-053	SW Corner of the Property	Investigate S of Boeing OA-11 Area.	1	SB-2021-053:1.0-10042021		X						X																		
			2.8	SB-2021-053:2.8-10042021		X						X																		
			11	SB-2021-053:11.0-10042021		X						X																		
			13	SB-2021-053:13.0-10042021		X						X																		
SB-2021-054	SW Corner of the Property	Investigate S of Boeing OA-11 Area.	0.5	SB-2021-054:0.5-10042021		X						X																		
			2.5	SB-2021-054:2.5-10042021		X						X																		
			5.9	SB-2021-054:5.9-10042021		X						X																		
			7	SB-2021-054:7.0-10042021		X						X																		
SB-2021-055	SW Corner of the Property	Investigate S of Boeing OA-11 Area.	0.5	SB-2021-055:0.5-10042021		X						X																		
			2.2	SB-2021-055:2.2-10042021		X						X																		
			5.5	SB-2021-055:5.5-10042021		X						X																		
			7.5	SB-2021-055:7.5-10042021		X						X																		
SB-2021-056	SW Corner of the Property	Investigate S of Boeing OA-11 Area.	1	SB-2021-056:1.0-10042021		X						X																		
			2.5	SB-2021-056:2.5-10042021		X						X																		
			5.5	SB-2021-056:5.5-10042021		X						X																		
			7.7	SB-2021-056:7.7-10042021		X						X																		
SB-2021-057	SW Corner of the Property	Investigate S of Boeing OA-11 Area.	0.8	SB-2021-057:0.8-10042021		X						X																		
			2.4	SB-2021-057:2.4-10042021		X						X																		
			2.4‡	SB-2021-Dup		X						X																		
			5.5	SB-2021-057:5.5-10042021		X						X																		
			7.5	SB-2021-057:7.5-10042021		X						X																		
SB-2021-065	E of Melt Bag House	Refusal encountered prior to target depth for MW-65. Boring converted to soil sampling only. Monitoring wells location shifted several feet and re-drilled.	11.9	SB-2021-065:11.9-02022021						X																				
			13	SB-2021-065:13-02022021		X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X				
SB-2021-068	SW Corner of the Property	Refusal encountered prior to target depth for MW-68. Boring converted to soil sampling only. Monitoring wells location shifted several feet and re-drilled.	1	SB-2021-068:1.0-01262021		X		X	X			X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				
			5.5	SB-2021-068:5.5-01262021		X		X	X			X	X	X	X	X	X	X	X		X	X	X	X	X	X	X				

Table 3: Soil Summary of Analyses

Location ID	Location Description	Rationale	Depth (feet bgs)	Sample ID	Petroleum Hydrocarbons			VOCs		SVOCs			Metals											Hex Chrome	Physical Tests			
					TPH-G	TPH-Dx	Extractable and Volatile Petroleum	BTEX	HVOCs	PAHs	Limited List SVOCs	Full List SVOCs	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Grain Size	Porosity	Total Organic Carbon	Total Solids
TSA-2020-001	E Interior of Former Etch House	Coverage within the Former Etch House	1.4	TSA-2020-001:1.4-11032020								X																	
			1.9	TSA-2020-001:1.9-11032020								X																	
TSA-2020-002	N Interior of Former Etch House	Coverage within the Former Etch House	1.5	TSA-2020-002:1.5-11032020								X																	
			2	TSA-2020-002:2-11032020								X																	
TSA-2020-003	W Interior of Former Etch House	Coverage within the Former Etch House	2	TSA-2020-003:1.5-11032020								X																	
			2	TSA-2020-003:2-11032020								X																	
TSA-2021-004	E Entrance to Former Etch House	Coverage within the Former Etch House	1.2	TSA-2021-004:1.2-01252021								X																	
			1.7	TSA-2021-004:1.7-01252021								X																	
			3	TSA-2021-004:3-01252021								X																	
TSA-2021-005	N of Former Etch House	Coverage within the Former Etch House	1.2	TSA-2021-005:1.2-01252021								X																	
			1.2‡	TSA-2021-100:1.2-01252021								X																	
			1.7	TSA-2021-005:1.7-01252021								X																	
			3	TSA-2021-005:3-01252021								X																	
TSA-2021-006	W of Former Etch House	Coverage within the Former Etch House	1.2	TSA-2021-006:1.2-01252021								X																	
			1.7	TSA-2021-006:1.7-01252021								X																	
TSA-2021-007	S of Former Etch House	Coverage within the Former Etch House	0.8	TSA-2021-007:0.8-01292021								X																	
			1.3	TSA-2021-007:1.3-01292021								X																	

NOTES:

‡ Sample is a duplicate. See Table 6 for a list of duplicates and associated primary samples.

bgs = below ground surface; BTEX = benzene, toluene, ethylbenzene, and xylene; BSF = Bethlehem Steel Facility; E = east; HVOCs = halogenated volatile organic compounds; JFOS = Jorgensen Forge Outfall Site; LNAPL = light non-aqueous-phase liquid; N = north; NE = northeast; NW = northwest; OA-11 = Other Area 11; PAHs = polycyclic aromatic hydrocarbons; PCBs = polychlorinated biphenyls; S = south; SE = southeast; SVOCs = semi-volatile organic compounds; SW = southwest; TPH-Dx = total petroleum hydrocarbons as diesel range extended; TPH-G = total petroleum hydrocarbons as gasoline range; TPH-O = total petroleum hydrocarbons as heavy oil range; UST = underground storage tank; VOCs = volatile organic compounds; W = west

Table 4: Groundwater Summary of Analyses

Location ID	Location Description	Rationale	Date	Sample ID	Petroleum Hydrocarbons		VOCs			SVOCs			PFAS	Metals																Hex Chrome	Hardness	Natural Attenuation Parameters				
					TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	PFAS	Antimony	Arsenic	Barium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Magnesium	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Hardness	Ferrous Iron	Sulfite	Manganese	Methane, Ethane, Ethylene	Chloride, Nitrate, Nitrite, Sulfate
MW-3	S of Front Gate	Evaluate for compliance at location of former unregistered 1,000-gallon UST.	2/19/2021	MW-3-20211902	X	X	X	X	X													X														
			5/28/2021	MW-3-20212805	X	X	X	X	X													X															
			8/30/2021	MW-3-20213008	X	X	X	X	X													X															
			11/24/2021	MW-3-20212411	X	X	X	X	X													X															
MW-4	Near Front Gate	Evaluate compliance at former unregistered 2,000-gallon UST	2/19/2021	MW-4-20211902	X	X	X									X		X				X		X	X		X	X	X	X		X						
			5/26/2021	MW-4-20212605	X	X	X		X							X		X				X		X	X		X	X	X	X		X						
			8/30/2021	MW-4-20213008	X	X	X		X							X		X				X		X	X		X	X	X	X		X						
			11/24/2021	MW-4-20212411	X	X	X		X							X		X				X		X	X		X	X	X	X		X						
MW-6	NW of Former Melt Shop Area	Monitor with former BSF footprint.	2/25/2021	MW-6-20212502	X	X	X	X				X				X						X															
			5/13/2021	MW-6-20211305	X	X	X	X				X				X						X															
			9/2/2021	MW-6-20210209	X	X	X	X				X				X						X															
			11/29/2021	MW-6-20212911	X	X	X	X				X				X						X															
MW-7	SE Corner of Site	Monitor SE corner of site.	2/23/2021	MW-7-20212302															X													X					
			5/27/2021	MW-7-20212705															X							X						X					
			8/26/2021	MW-7-20212608															X													X					
			11/19/2021	MW-7-20211911															X													X					
MW-8	SW of Front Gate	Monitor west of 3 former USTs.	2/16/2021	MW-8-20211602	X	X	X	X					X			X																					
			5/26/2021	MW-8-20212605	X	X	X	X								X																					
			8/30/2021	MW-8-20213008	X	X	X	X								X																					
			11/17/2021	MW-8-20211711	X	X	X	X					X			X																					
MW-9	E of Shipping Area	Monitor upgradient of the shipping area.	2/18/2021	MW-9-20211802	X	X	X									X		X				X			X												
			5/19/2021	MW-9-20211905	X	X	X									X		X				X			X												
			8/31/2021	MW-9-20213108	X	X	X									X		X				X			X												
			11/10/2021	MW-9-20211011	X	X	X									X		X				X			X												
MW-10R	W of Decommissioned Oil Storage Area	Replace decommissioned well MW-10.	2/19/2021	MW-10R-20211902		X	X	X		X		X				X	X	X	X	X	X	X	X	X		X	X	X	X	X	X						
			5/25/2021	MW-10R-20212505		X	X	X		X		X				X	X	X	X	X	X	X	X	X		X	X	X	X	X	X						
			8/31/2021	MW-10R-20213108		X	X	X		X		X				X	X	X	X	X	X	X	X	X		X	X	X	X	X	X						
			11/23/2021	MW-10R-20212311		X	X	X		X		X				X	X	X	X	X	X	X	X	X		X	X	X	X	X	X						
MW-11	E of Decommissioned Oil Storage Area	Monitor upgradient of the Decommissioned Oil Storage Area.	2/19/2021	MW-11-20211902	X	X			X							X								X												
			5/25/2021	MW-11-20212505	X	X			X							X								X												
			8/26/2021	MW-11-20212608	X	X			X							X								X												
			11/23/2021	MW-11-20212311	X	X			X							X								X												

Table 4: Groundwater Summary of Analyses

					Petroleum Hydrocarbons		VOCs			SVOCs			PFAS	Metals																	Hex Chrome	Hardness	Natural Attenuation Parameters				
Location ID	Location Description	Rationale	Date	Sample ID	TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	PFAS	Antimony	Arsenic	Barium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Magnesium	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Hardness	Ferrous Iron	Sulfite	Manganese	Methane, Ethane, Ethylene	Chloride, Nitrate, Nitrite, Sulfate
MW-13R	W of Aluminum Heat Treat Area	Replace monitoring wells within Area 2 LNAPL plume.	2/25/2021	MW-13R-20212502	X	X	X																															
			8/27/2021	MW-13R-20212708	X	X	X																																
MW-14	N of Aluminum Heat Treat Area	Monitor upgradient of the Area 2 LNAPL plume.	2/19/2021	MW-14-20211902	X	X	X	X	X		X					X		X		X	X	X		X	X		X	X	X	X		X			X	X	X		X
			5/14/2021	MW-14-20211405	X	X	X	X	X		X					X		X		X	X	X		X	X		X	X	X	X		X			X		X	X	X
			8/26/2021	MW-14-20212608	X	X	X	X	X							X		X		X	X	X		X	X		X	X	X	X		X			X	X	X	X	X
			9/2/2021	MW-14-20210209							X																													
			11/23/2021	MW-14-20212311	X	X	X	X	X							X		X		X	X	X		X	X		X	X	X	X		X			X	X	X	X	X
			11/24/2021	MW-14-20212411							X																													
MW-15	NE of Aluminum Heat Treat Area	Monitor upgradient of the Area 2 LNAPL plume.	2/19/2021	MW-15-20211902	X	X		X													X														X	X			X
			5/14/2021	MW-15-20211405	X	X		X													X														X			X	X
			8/20/2021	MW-15-20212008	X	X		X													X				X										X	X	X	X	X
			8/20/2021‡	MW-100-20212008	X	X		X													X																		
			11/19/2021	MW-15-20211911	X	X		X													X				X										X	X	X	X	X
MW-23	N of Shipping Area	Monitor Area 1 LNAPL plume to the NE.	2/12/2021	MW-23-20211202		X		X				X				X				X					X								X		X	X	X	X	X
			5/14/2021	MW-23-20211405		X		X				X				X				X					X								X		X		X	X	X
			8/25/2021	MW-23-20212508		X		X				X				X				X					X								X		X	X	X	X	X
			11/19/2021	MW-23-20211911		X		X				X				X				X					X								X		X	X	X	X	X
MW-24	W of Main Office	Monitor Area 1 LNAPL plume to the NW.	2/11/2021	MW-24-20211102			X			X	X					X																							
			5/18/2021	MW-24-20211805				X			X	X				X																								
			8/25/2021	MW-24-20212508				X			X	X				X																								
			12/1/2021	MW-24-20210112				X			X	X				X																								
			12/1/2021‡	MW-100-20210112				X			X	X				X																								
MW-25	W of Hollowbore Area	Monitor W of LNAPL Area 1 plume.	2/11/2021	MW-25-20211102			X	X		X						X																							
			5/18/2021	MW-25-20211805				X		X						X																								
			8/24/2021	MW-25-20212408				X		X						X																								
			11/10/2021	MW-25-20211011				X		X						X																								
MW-30	S of Hollowbore Area	Monitor S of LNAPL Area 1 plume.	2/18/2021	MW-30-20211802	X	X		X																	X										X	X	X		X
			5/19/2021	MW-30-20211905	X	X		X																	X										X	X	X	X	X
			8/20/2021	MW-30-20212008	X	X		X																	X										X	X	X	X	X
			11/12/2021	MW-30-20211211	X	X		X																	X										X	X	X	X	X

Table 4: Groundwater Summary of Analyses

					Petroleum Hydrocarbons		VOCs			SVOCs				PFAS	Metals																	Hex Chrome	Hardness	Natural Attenuation Parameters				
Location ID	Location Description	Rationale	Date	Sample ID	TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	PFAS	Antimony	Arsenic	Barium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Magnesium	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Hardness	Ferrous Iron	Sulfite	Manganese	Methane, Ethane, Ethylene	Chloride, Nitrate, Nitrite, Sulfate
MW-31	W of Machine Shop	Monitor W of Machine Shop.	2/24/2021	MW-31-20212402		X		X		X	X																											
			5/18/2021	MW-31-20211805		X		X		X	X																												
			8/27/2021	MW-31-20212708		X		X		X	X																												
			11/18/2021	MW-31-20211811		X		X		X	X		X																										
MW-32	E of Forge Shop Area	Monitor S of Area 2 LNAPL plume.	2/22/2021	MW-32-20212202	X	X				X	X					X																						
			5/24/2021	MW-32-20212405	X	X				X	X					X																						
			5/24/2021‡	MW-102-20212405	X	X				X	X					X																						
			8/26/2021	MW-32-20212608	X	X				X	X					X																						
			12/3/2021	MW-32-20210312	X	X				X	X					X																						
			12/3/2021‡	MW-101-20210312	X	X				X	X					X																						
MW-34	W of Aluminum Heat Treat Area	Monitor S of Area 2 LNAPL plume.	2/22/2021	MW-34-20212202	X	X																																
			5/14/2021	MW-34-20211405	X	X																																
			8/26/2021	MW-34-20212608	X	X																																
			12/2/2021	MW-34-20210212	X	X																																
MW-36	E Portion of Forge Shop Area	Monitor S of Area 2 LNAPL plume and near Ring Expander Vault.	2/22/2021	MW-36-20212202	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X		X
			5/17/2021	MW-36-20211705	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X		X	X	X
			8/18/2021	MW-36-20211808	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X
			11/12/2021	MW-36-20211211	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X
			12/3/2021	MW-36-20210312										X																									
			12/3/2021‡	MW-200-20210312										X																									
MW-37	S of Forge Shop Area	Monitor W of Ring Expander Vault and at S property boundary.	2/23/2021	MW-37-20212302	X	X	X	X		X					X						X			X					X	X		X						
			2/23/2021‡	MW-102-20212302	X	X	X	X		X					X						X			X					X	X		X						
			5/21/2021	MW-37-20212105	X	X	X	X		X					X						X			X					X	X		X						
			9/2/2021	MW-37-20210209	X	X	X	X		X					X						X			X					X	X		X						
			12/3/2021	MW-37-20210312	X	X	X	X		X					X						X			X					X	X		X						
MW-38	SW of Forge Shop Area	Monitor S property line.	2/23/2021	MW-38-20212302	X	X	X																		X													
			5/21/2021	MW-38-20212105	X	X	X																		X													
			8/18/2021	MW-38-20211808	X	X	X																		X													
			8/18/2021‡	MW-103-20211808	X	X	X																		X													
			11/9/2021	MW-38-20210911	X	X	X																		X													

Table 4: Groundwater Summary of Analyses

Location ID	Location Description	Rationale	Date	Sample ID	Petroleum Hydrocarbons		VOCs			SVOCs				PFAS	Metals																Hex Chrome	Hardness	Natural Attenuation Parameters				
					TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	PFAS	Antimony	Arsenic	Barium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Magnesium	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Hardness	Ferrous Iron	Sulfite	Manganese	Methane, Ethane, Ethylene	Chloride, Nitrate, Nitrite, Sulfate
MW-39	SW of Former Melt Shop Area	Monitor shoreline.	2/24/2021	MW-39-20212402	X	X	X	X					X		X				X						X			X			X	X					
			5/28/2021	MW-39-20212805	X	X	X	X					X		X				X						X			X			X	X					
			8/19/2021	MW-39-20211908	X	X	X	X							X				X						X			X			X	X					
			8/20/2021	MW-39-20212008									X		X				X						X			X			X						
			11/30/2021	MW-39-20213011	X	X	X	X					X		X				X						X			X			X	X					
MW-40	W of 5,000-Ton Press	Monitor W of 5,000-ton press.	2/25/2021	MW-40-20212502		X		X		X	X				X		X				X		X	X		X	X	X	X	X							
			5/20/2021	MW-40-20212005		X		X		X	X				X		X				X		X	X		X	X	X	X	X							
			9/1/2021	MW-40-20210109		X		X		X	X				X		X				X		X	X		X	X	X	X	X							
			11/11/2021	MW-40-20211111		X		X		X	X				X		X				X		X	X		X	X	X	X	X							
			11/11/2021‡	MW-102-20211111		X		X		X	X				X		X				X		X	X		X	X	X	X	X							
MW-41	W of 5,000-Ton Press	Monitor deeper groundwater to the W of 5,000-ton press.	2/25/2021	MW-41-20212502		X		X		X	X				X		X				X		X	X		X	X	X	X	X							
			5/20/2021	MW-41-20212005		X		X		X	X				X		X				X		X	X		X	X	X	X	X							
			9/1/2021	MW-41-20210109		X		X		X	X				X		X				X		X	X		X	X	X	X	X							
			11/11/2021	MW-41-20211111		X		X		X	X				X		X				X		X	X		X	X	X	X	X							
MW-42	W of Former Melt Shop Area	Monitor groundwater to the W of the former Melt Shop Badhouse.	2/23/2021	MW-42-20212302		X	X	X				X							X						X	X										
			5/24/2021	MW-42-20212405		X	X	X				X							X						X	X										
			8/18/2021	MW-42-20211808		X	X	X				X							X						X	X										
			11/29/2021	MW-42-20212911		X	X	X				X							X						X	X										
MW-43	W of Former Melt Shop Area	Monitor deeper groundwater to the W of the former Melt Shop Badhouse.	2/17/2021	MW-43-20211702		X	X	X				X		X											X											
			5/24/2021	MW-43-20212405		X	X	X				X													X											
			8/19/2021	MW-43-20211908		X	X	X				X													X											
			11/16/2021	MW-43-20211611		X	X	X				X		X											X											
MW-44	W of Former Melt Shop Area	Monitor deeper groundwater to the W of the former Melt Shop Badhouse.	2/23/2021	MW-44-20212302		X	X	X				X													X	X										
			5/24/2021	MW-44-20212405		X	X	X				X													X	X										
			8/20/2021	MW-44-20212008		X	X	X				X													X	X										
			11/16/2021	MW-44-20211611		X	X	X				X													X	X										

Table 4: Groundwater Summary of Analyses

					Petroleum Hydrocarbons		VOCs			SVOCs				PFAS	Metals																Hex Chrome	Hardness	Natural Attenuation Parameters				
Location ID	Location Description	Rationale	Date	Sample ID	TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	PFAS	Antimony	Arsenic	Barium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Magnesium	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Hardness	Ferrous Iron	Sulfite	Manganese	Methane, Ethane, Ethylene	Chloride, Nitrate, Nitrite, Sulfate
MW-45	W of Heat Treat Area	Monitor W of Heat Treat Area.	2/24/2021	MW-45-20212402		X	X	X					X												X													
			5/18/2021	MW-45-20211805		X	X	X					X												X													
			8/27/2021	MW-45-20212708		X	X	X					X												X													
			11/18/2021	MW-45-20211811		X	X	X					X												X													
MW-46	W of Laboratory	Monitor W of from Steam Clean Area and Laboratory.	2/24/2021	MW-46-20212402	X	X	X	X		X	X					X				X		X		X	X		X	X	X	X	X	X						
			5/14/2021	MW-46-20211405	X	X	X	X		X	X					X				X		X		X	X		X	X	X	X	X	X						
			8/17/2021	MW-46-20211708	X	X	X	X		X	X					X				X		X		X	X		X	X	X	X	X	X						
			11/22/2021	MW-46-20212211	X	X	X	X		X	X					X				X		X		X	X		X	X	X	X	X	X						
MW-47	W of the Former Etch House	Monitor W of the Former Etch House.	2/24/2021	MW-47-20212402				X				X	X							X													X					
			5/27/2021	MW-47-20212705				X				X	X							X							X						X					
			8/27/2021	MW-47-20212708				X				X	X							X													X					
			11/19/2021	MW-47-20211911				X				X	X							X													X					
MW-48	W of Hollowbore Area	Monitor W (downgradient) of LNAPL Area 1 plume.	2/11/2021	MW-48-20211102			X																															
			5/18/2021	MW-48-20211805			X																															
			8/24/2021	MW-48-20212408			X																															
			11/9/2021	MW-48-20210911			X																															
MW-49	N of Main Office	Monitor Area 1 LNAPL plume to the N.	2/12/2021	MW-49-20211202			X	X								X		X				X		X	X		X	X	X	X	X	X						
			5/19/2021	MW-49-20211905			X	X								X		X				X		X	X		X	X	X	X	X	X						
			8/25/2021	MW-49-20212508			X	X								X		X				X		X	X		X	X	X	X	X	X						
			12/2/2021	MW-49-20210212			X	X								X		X				X		X	X		X	X	X	X	X	X						
MW-50	E of Black Shack Motor Storage	Monitor south of the Boeing OA-11 Area.	2/12/2021	MW-50-20211202			X	X					X												X													
			5/21/2021	MW-50-20212105			X	X					X					X																					
			8/26/2021	MW-50-20212608			X	X					X												X													
			11/9/2021	MW-50-20210911			X	X					X												X													
			11/9/2021‡	MW-103-20210911			X	X					X												X													
MW-51	N of Black Shack Motor Storage	Monitor SW of the Boeing OA-11 Area.	2/10/2021	MW-51-20211002	X		X	X				X	X																									
			5/21/2021	MW-51-20212105	X			X			X		X																									
			8/24/2021	MW-51-20212408	X			X			X		X																									
			12/2/2021	MW-51-20210212	X			X			X		X																									

Table 4: Groundwater Summary of Analyses

					Petroleum Hydrocarbons		VOCs			SVOCs				PFAS	Metals																	Hex Chrome	Hardness	Natural Attenuation Parameters				
Location ID	Location Description	Rationale	Date	Sample ID	TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	PFAS	Antimony	Arsenic	Barium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Magnesium	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Hardness	Ferrous Iron	Sulfite	Manganese	Methane, Ethane, Ethylene	Chloride, Nitrate, Nitrite, Sulfate
MW-52	S of Black Shack Motor Storage	Monitor shoreline.	2/12/2021	MW-52-20211202	X		X	X		X			X												X													
			5/26/2021	MW-52-20212605	X		X	X		X			X												X													
			8/27/2021	MW-52-20212708	X		X	X		X			X												X													
			12/1/2021	MW-52-20210112	X		X	X		X			X												X													
MW-53	Shoreline W of Melt Bag House	Monitor shoreline.	2/22/2021	MW-53-20212202		X	X	X		X	X		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X					
			2/22/2021‡	MW-101-20212202		X	X	X		X	X		X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			5/25/2021	MW-53-20212505		X	X	X		X	X		X			X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X					
			9/1/2021	MW-53-20210109		X	X	X		X	X		X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			12/1/2021	MW-53-20210112		X	X	X		X	X		X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
MW-54	Shoreline S of Liquid Cooling Gas Storage	Monitor shoreline.	2/18/2021	MW-54-20211802		X	X	X		X	X		X			X	X	X		X	X	X	X	X			X	X	X	X	X	X							
			5/24/2021	MW-54-20212405		X	X	X		X	X		X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			8/20/2021	MW-54-20212008		X	X	X		X	X		X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			12/3/2021	MW-54-20210312		X	X	X		X	X		X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
MW-55	Outside and NW of Hollowbore Area	Monitor Area 1 LNAPL plume to the NW.	2/11/2021	MW-55-20211102		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X	X							
			5/14/2021	MW-55-20211405		X	X	X								X	X	X		X	X	X	X	X	X		X	X	X	X	X	X	X							
			8/24/2021	MW-55-20212408		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X	X							
			11/18/2021	MW-55-20211811		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X	X							
MW-56	Outside and SW of Hollowbore Area	Monitor Area 1 LNAPL plume to the SW.	2/10/2021	MW-56-20211002		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X
			5/17/2021	MW-56-20211705		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X			X		X	X	X	X
			8/30/2021	MW-56-20213008		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X
			11/22/2021	MW-56-20212211		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X
MW-57	S of Hollowbore Area	Monitor Area 1 LNAPL plume to the SE.	2/18/2021	MW-57-20211802		X	X	X		X						X	X	X		X	X	X	X	X			X	X	X	X	X	X							
			5/19/2021	MW-57-20211905		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			5/19/2021‡	MW-101-20211905		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			8/31/2021	MW-57-20213108		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			11/11/2021	MW-57-20211111		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
MW-58	E of Hollowbore Area	Monitor Area 1 LNAPL plume to the E. Evaluate Shipping Area.	2/18/2021	MW-58-20211802		X	X	X		X						X	X	X		X	X	X	X	X			X	X	X	X	X	X			X	X				X
			5/17/2021	MW-58-20211705		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X			X		X	X	X	X
			8/25/2021	MW-58-20212508		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X
			11/12/2021	MW-58-20211211		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X
MW-59	Outside and N of Hollowbore Area	Monitor Area 1 LNAPL plume to the N.	2/12/2021	MW-59-20211202		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			5/18/2021	MW-59-20211805		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			8/25/2021	MW-59-20212508		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			11/30/2021	MW-59-20213011		X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							

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Location ID	Location Description	Rationale	Date	Sample ID	Petroleum Hydrocarbons		VOCs			SVOCs			PFAS	Metals																Hex Chrome	Hardness	Natural Attenuation Parameters				
					TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	PFAS	Antimony	Arsenic	Barium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Magnesium	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Hardness	Ferrous Iron	Sulfite	Manganese	Methane, Ethane, Ethylene	Chloride, Nitrate, Nitrite, Sulfate
MW-60	Forge Shop Area	Monitor Area 2 LNAPL plume to the W.	2/17/2021	MW-60-20211702	X	X	X	X		X			X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X		X
			5/17/2021	MW-60-20211705	X	X	X	X		X				X	X	X		X	X	X	X	X	X		X	X	X	X	X	X			X		X	X	X
			9/1/2021	MW-60-20210109	X	X	X	X		X				X	X	X		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X
			11/17/2021	MW-60-20211711	X	X	X	X		X			X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X
MW-61	Forge Shop Area	Monitor Area 2 LNAPL plume to the W.	2/22/2021	MW-61-20212202	X	X	X	X		X					X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			5/21/2021	MW-61-20212105	X	X	X	X		X					X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			9/2/2021	MW-61-20210209	X	X	X	X		X					X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			12/1/2021	MW-61-20210112	X	X	X	X		X					X	X		X	X	X	X	X	X		X	X	X	X	X	X							
MW-62	W of MW-10R and Large Hypro.	Monitor downgradient of MW-10R and downgradient of Large Hypo.	2/18/2021	MW-62-20211802		X	X	X		X		X			X	X		X	X	X	X	X			X	X	X	X	X	X							
			5/19/2021	MW-62-20211905		X	X	X		X		X			X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			5/19/2021‡	MW-103-20211905		X	X	X		X		X			X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			8/31/2021	MW-62-20213108		X	X	X		X		X			X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			11/11/2021	MW-62-20211111		X	X	X		X		X			X	X		X	X	X	X	X	X		X	X	X	X	X	X							
MW-63	W of MW-40/MW-41	Monitor downgradient of MW-40 and MW-41.	2/16/2021	MW-63-20211602									X																								
			2/17/2021	MW-63-20211702		X	X	X				X	X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			2/17/2021‡	MW-103-20211702		X	X	X				X	X	X		X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			5/20/2021	MW-63-20212005		X	X	X				X	X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			9/1/2021	MW-63-20210109		X	X	X				X	X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			11/16/2021	MW-63-20211611		X	X	X				X	X	X		X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
MW-64	W of MW-40/MW-41	Monitor deeper zone downgradient of MW-40 and MW-41.	2/16/2021	MW-64-20211602		X	X	X		X			X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			5/20/2021	MW-64-20212005		X	X	X		X			X		X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			9/1/2021	MW-64-20210109		X	X	X		X			X		X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			11/16/2021	MW-64-20211611		X	X	X		X			X	X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
MW-65	NW of Stormwater Treatment System	Monitor Former Bethlehem Steel Facility footprint with former embayment.	2/25/2021	MW-65-20212502	X	X	X	X		X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X					
			5/13/2021	MW-65-20211305	X	X	X	X		X	X		X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			9/2/2021	MW-65-20210209	X	X	X	X		X	X		X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			11/9/2021	MW-65-20210911	X	X	X	X		X	X		X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
MW-66	N End of Property W of Truck Scale	Monitor N property boundary. Assess former Bethlehem Steel galvanizing plant.	2/10/2021	MW-66-20211002		X	X	X		X			X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			5/13/2021	MW-66-20211305		X	X	X		X			X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			8/23/2021	MW-66-20212308		X	X	X		X			X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			8/23/2021‡	MW-102-20212308		X	X	X		X			X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							
			11/10/2021	MW-66-20211011		X	X	X		X			X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X							

Table 4: Groundwater Summary of Analyses

Location ID	Location Description	Rationale	Date	Sample ID	Petroleum Hydrocarbons		VOCs			SVOCs				PFAS	Metals																	Hex Chrome	Hardness	Natural Attenuation Parameters				
					TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	PFAS	Antimony	Arsenic	Barium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Magnesium	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Hardness	Ferrous Iron	Sulfite	Manganese	Methane, Ethane, Ethylene	Chloride, Nitrate, Nitrite, Sulfate
MW-67	SW of Former Metals Storage Area Bins	Monitor within the Former Metals Storage Area and unpaved slag storage area.	2/23/2021	MW-67-20212302		X	X	X				X	X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			5/24/2021	MW-67-20212405		X	X	X				X	X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			8/18/2021	MW-67-20211808			X	X				X				X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			8/19/2021	MW-67-20211908		X							X																										
			12/1/2021	MW-67-20210112		X	X	X				X	X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
MW-68	W of Former Metals Storage Area	Monitor downgradient of Former Metals Storage Area.	2/16/2021	MW-68-20211602		X	X	X				X	X	X		X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			8/17/2021	MW-68-20211708		X	X	X				X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X					
			11/17/2021	MW-68-20211711		X	X	X				X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X					
MW-69	NW of Black Shack Motor Storage	Monitor NW corner of property.	2/11/2021	MW-69-20211102	X	X	X	X				X	X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			5/26/2021	MW-69-20212605	X	X	X	X			X		X			X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X					
			8/24/2021	MW-69-20212408	X	X	X	X			X		X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			12/2/2021	MW-69-20210212	X	X	X	X			X		X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
MW-70	NW of Black Shack Motor Storage	Monitoring deeper zone in NW corner of property.	2/11/2021	MW-70-20211102	X	X	X	X		X			X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			5/26/2021	MW-70-20212605	X	X	X	X		X			X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			8/23/2021	MW-70-20212308	X	X	X	X		X			X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			11/30/2021	MW-70-20213011	X	X	X	X		X			X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
MW-71	N Property Boundary E of Truck Scale	Monitor N property boundary.	2/17/2021	MW-71-20211702	X	X	X	X		X			X	X		X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			5/18/2021	MW-71-20211805	X	X	X	X		X			X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			8/17/2021	MW-71-20211708	X	X	X	X		X			X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			11/16/2021	MW-71-20211611	X	X	X	X		X			X	X		X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
MW-72	E of Decommissioned Diesel Storage Area	Provide monitoring well upgradient of the Decommissioned Diesel Storage Area.	2/16/2021	MW-72-20211602		X		X			X			X		X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			5/21/2021	MW-72-20212105		X		X			X					X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			8/26/2021	MW-72-20212608		X		X			X					X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			11/17/2021	MW-72-20211711	X	X		X			X	X		X		X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			11/30/2021	MW-72-20213011							X																											
MW-73	Within Aluminum Heat Treat Building	Monitor Area 2 LNAPL plume to the E.	2/22/2021	MW-73-20212202	X	X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			5/20/2021	MW-73-20212005	X	X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			8/27/2021	MW-73-20212708	X	X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			11/29/2021	MW-73-20212911	X	X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
MW-74	W of Ring Expander Vault	Evaluate ring expander vault and hydraulic oil tank.	2/22/2021	MW-74-20212202	X	X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			5/20/2021	MW-74-20212005	X	X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			9/2/2021	MW-74-20210209	X	X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			11/24/2021	MW-74-20212411	X	X	X	X		X						X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			12/3/2021	MW-74-20210312										X																								

Table 4: Groundwater Summary of Analyses

Location ID	Location Description	Rationale	Date	Sample ID	Petroleum Hydrocarbons		VOCs			SVOCs				PFAS	Metals																Hex Chrome	Hardness	Natural Attenuation Parameters				
					TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Limited List SVOCs	Full List SVOCs	PCB Aroclors	PFAS	Antimony	Arsenic	Barium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Magnesium	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc	Hex Chrome	Hardness	Ferrous Iron	Sulfite	Manganese	Methane, Ethane, Ethylene	Chloride, Nitrate, Nitrite, Sulfate
MW-75	Machine Shop Area	Evaluate Machine Shop Area.	2/18/2021	MW-75-20211802		X	X	X			X	X	X			X	X	X		X	X	X	X	X			X	X	X	X	X	X						
			5/24/2021	MW-75-20212405		X	X	X			X	X	X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			8/31/2021	MW-75-20213108	X	X	X	X			X	X	X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			8/31/2021‡	MW-101-20213108	X	X	X	X			X	X	X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			11/12/2021	MW-75-20211211		X	X	X			X	X	X			X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
MW-76	SE of Truck Scale	Coverage within Former BSF footprint.	2/10/2021	MW-76-20211002		X	X	X		X	X	X				X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			2/10/2021‡	MW-100-20211002		X	X	X		X	X	X				X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			5/13/2021	MW-76-20211305		X	X	X		X	X	X				X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			8/17/2021	MW-76-20211708		X	X	X		X	X	X				X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						
			11/18/2021	MW-76-20211811		X	X	X		X	X	X				X	X	X		X	X	X	X	X	X		X	X	X	X	X	X						

NOTES:

‡ Sample is a duplicate. See Table 6 for a list of duplicates and associated primary samples.

BTEX = benzene, toluene, ethylbenzene, and xylene; BSF = Bethlehem Steel Facility; E = east; HVOCs = halogenated volatile organic compounds; LNAPL = light non-aqueous-phase liquid; MTBE = methyl tert-butyl ether; N = north; NE = northeast; NW = northwest; OA-11 = Other Area 11; PAHs = polycyclic aromatic hydrocarbons; PCB = polychlorinated biphenyl; PFAS = per- and polyfluoroalkyl substances; S = south; SE = southeast; SVOCs = semi-volatile organic compounds; SW = southwest; TPH-Dx = total petroleum hydrocarbons as diesel range extended; TPH-G = total petroleum hydrocarbons as gasoline range; UST = underground storage tank; VOCs = volatile organic compounds; W = west

Table 5: Pavement Summary of Analyses

Location ID	Location Description	Rationale	Depth (feet bgs)	Sample ID	PCB Aroclors
TSA-Concrete-001	E Interior of Former Etch House (Same Location as TSA-2020-001)	Sample of concrete midway through the core.	0.6	TSA-Concrete-001:0.6-11032020	X
TSA-Concrete-002	N Interior of Former Etch House (Same Location as TSA-2020-002)	Sample of concrete midway through the core.	0.6	TSA-Concrete-002:0.6-11032020	X
Asphalt-001	E Entrance to Former Etch House (Same Location as TSA-2021-004)	Surface sample of unstained asphalt.	0	Asphalt-001-01252021	X
Asphalt-002	W Entrance to Former Etch House (Same Location as TSA-2021-006)	Surface sample of unstained asphalt.	0	Asphalt-002-01252021	X
Asphalt-003	NE Portion of Former Metals Storage Area	Surface sample of unstained asphalt.	0	Asphalt-003-01252021	X
Asphalt-004	W of Admin Building	Surface sample of unstained asphalt.	0	Asphalt-004-01262021	X
Asphalt-005	W of Decommissioned Oil Storage Area	Surface sample of unstained asphalt.	0	Asphalt-005-01292021	X
Stain-001	Driveway W of Former Melt Shop	Surface sample of stained asphalt.	0	Stain-001-01292021	X
Stain-002	Driveway S of Aluminum Heat Treat Building	Surface sample of stained asphalt.	0	Stain-002-01292021	X
Stain-003	Driveway E of Shipping Area	Surface sample of stained asphalt.	0	Stain-003-01282021	X

bgs = below ground surface; E = east; N = north; NE = northeast; PCB = polychlorinated biphenyl; S = south; W = west

Table 6: Field Duplicate Identification

Duplicate Sample Name	Primary Sample Name	Exploration ID	Matrix
A1-100:5-11032020	A1-02A:5-11032020	A1-02A	Soil
HA-2020-100:0.2	HA-2020-003:0.2	HA-2020-003	Soil
MW-104:9-02052021	MW-10R:9-02052021	MW-10R	Soil
MW-100-20212008	MW-15-20212008	MW-15	Groundwater
MW-100-20210112	MW-24-20210112	MW-24	Groundwater
MW-101-20210312	MW-32-20210312	MW-32	Groundwater
MW-102-20212405	MW-32-20212405	MW-32	Groundwater
MW-200-20210312	MW-36-20210312	MW-36	Groundwater
MW-102-20212302	MW-37-20212302	MW-37	Groundwater
MW-103-20211808	MW-38-20211808	MW-38	Groundwater
MW-102-20211111	MW-40-20211111	MW-40	Groundwater
MW-103-20210911	MW-50-20210911	MW-50	Groundwater
MW-101-20212202	MW-53-20212202	MW-53	Groundwater
MW-102:5.5-02032021	MW-54:5.5-02032021	MW-54	Soil
MW-101:8.0-02022021	MW-56:8.0-02022021	MW-56	Soil
MW-101-20211905	MW-57-20211905	MW-57	Groundwater
MW-103-20211905	MW-62-20211905	MW-62	Groundwater
MW-103-20211702	MW-63-20211702	MW-63	Groundwater
MW-102-20212308	MW-66-20212308	MW-66	Groundwater
MW-101:10.3-02022021	MW-74:10.3-02022021	MW-74	Soil
MW-101-20213108	MW-75-20213108	MW-75	Groundwater
MW-100-02211002	MW-76-02211002	MW-76	Groundwater
MW-100:5.0-01262021	MW-76:5.0-01262021	MW-76	Soil
SB-2020-101:17-11062020	SB-2020-004:17-11062020	SB-2020-004	Soil
SB-2020-100:11-11052020	SB-2020-014:11-11052020	SB-2020-014	Soil
SB-2021-105:6-01282021	SB-2021-002:6-01282021	SB-2021-002	Soil
SB-2021-104:6-01282021	SB-2021-010:6-01282021	SB-2021-010	Soil
SB-2021-101:1-01252021	SB-2021-011:1-01252021	SB-2021-011	Soil
SB-2021-103:2.5-01272021	SB-2021-021:2.5-01272021	SB-2021-021	Soil
SB-2021-102:10.7-01252021	SB-2021-034:10.7-01252021	SB-2021-034	Soil
SB-2021-106:2-01282021	SB-2021-041:2-01282021	SB-2021-041	Soil
SB-2021-106:11-01292021	SB-2021-042:11-01292021	SB-2021-042	Soil
SB-2021-Dup	SB-2021-057:2.4-10042021	SB-2021-057	Soil
TSA-2021-100:1.2-01252021	TSA-2021-005:1.2-01252021	TSA-2021-005	Soil

Table 7: Trip Blank Summary of Analyses

Sample ID	Date	Petroleum Hydrocarbons	VOCs		
		TPH-G	BTEX	HVOCs	MTBE
TB-1-11032020	11/3/2020	X	X	X	
TB-2-11042020	11/4/2020	X	X	X	
TB-3-11052020	11/5/2020	X			
TB-4-11052020	11/5/2020	X	X	X	
TB-1-01252021	1/25/2021	X	X	X	
TB-2-01262021	1/27/2021	X	X	X	
TB-3-01282021	1/28/2021	X	X	X	
TB-4-02012021	2/2/2021	X	X	X	
Trip Blank	2/4/2021		X	X	
TB-5-02052021	2/5/2021		X	X	
TB-1-20211002	2/10/2021	X	X	X	
TB-2-20211102	2/11/2021	X	X	X	
TB-4-20211602	2/16/2021	X	X		X
TB-5-20211702	2/17/2021	X	X	X	
TB-6-20211802	2/18/2021	X	X	X	
TB-7-20211902	2/19/2021	X	X	X	
TB-8-20212202	2/22/2021	X	X	X	
TB-9-20212302	2/23/2021	X	X	X	
TB-10-20212402	2/24/2021	X	X	X	
TB-11-20212502	2/25/2021	X	X	X	
TB-1-20211305	5/13/2021	X	X	X	
TB-2-20211405	5/14/2021	X	X	X	
TB-3-20211705	5/17/2021	X	X	X	
TB-4-20211805	5/18/2021	X	X	X	
TB-5-20211905	5/19/2021	X	X	X	
TB-6-20212005	5/20/2021	X	X	X	
TB-7-20212105	5/21/2021	X	X	X	
TB-8-20212405	5/24/2021	X	X	X	
TB-9-20212505	5/25/2021	X	X	X	X
TB-10-20212605	5/26/2021	X	X	X	
TB-10-20212705	5/27/2021			X	
TB-11-20212805	5/28/2021	X	X	X	X
TB-2-20211808	8/18/2021	X	X	X	
TB-4-20212008	8/20/2021	X	X	X	

Table 7: Trip Blank Summary of Analyses

Sample ID	Date	Petroleum Hydrocarbons	VOCs		
		TPH-G	BTEX	HVOCs	MTBE
TB-6-20212408	8/24/2021	X	X	X	
TB-7-20212508	8/25/2021	X	X	X	
TB-8-20212608	8/26/2021	X	X	X	X
TB-9-20212708	8/27/2021	X	X	X	
TB-10-20213008	8/30/2021		X	X	X
TB-11-20213108	8/31/2021		X	X	X
TB-12-20210109	9/1/2021	X	X	X	X
TB-13-20210209	9/2/2021	X	X	X	
TB-1-20210911	11/9/2021		X	X	
TB-2-20211011	11/10/2021		X	X	
TB-3-20211111	11/11/2021		X	X	
TB-4-20211211	11/12/2021		X	X	
TB-5-20211611	11/16/2021		X	X	
TB-6-20211711	11/17/2021		X	X	X
TB-7-20211811	11/18/2021		X	X	
TB-8-20211911	11/19/2021			X	
TB-9-20212211	11/22/2021		X	X	
TB-10-20212311	11/23/2021	X	X	X	X
TB-11-20212411	11/24/2021	X	X	X	X
TB-12-20212911	11/29/2021		X	X	
TB-13-20213011	11/30/2021		X	X	
TB-14-20210112	12/1/2021		X	X	
TB-15-20210212	12/2/2021		X	X	
TB-16-20210312	12/3/2021		X	X	

BTEX = benzene, toluene, ethylbenzene, and xylene; HVOCs = halogenated volatile organic compounds; MTBE = methyl tert-butyl ether; TPH-G = total petroleum hydrocarbons as gasoline range

Table 8: Equipment Blank Summary of Analyses

			TPH		VOCs			SVOCs				Metals															
Sample ID	Date	Sample Source	TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Limited List SVOCs	PCB Aroclors	PFAS	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
EB-1-11052020	11/5/2020	Water from the driller's water tank. The tank was the source of water used for decontamination.			X	X		X		X		X	X	X	X	X	X	X	X	X		X	X	X	X	X
EB-2-11062020	11/6/2020	Distilled water poured over decontaminated sampling spoons after first rinse.			X	X		X		X		X	X	X	X	X	X	X	X	X		X	X	X	X	X
EB-3-11062020	11/6/2020	Distilled water poured over decontaminated sampling spoons after second rinse.			X	X		X		X		X	X	X	X	X	X	X	X	X		X	X	X	X	X
EB-2-20211102	2/11/2021	Water pumped through new tubing used for peristaltic pump.	X	X	X	X		X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EB-1-20211702	2/17/2021	Water pumped through new tubing used for peristaltic pump.									X															
EB-2-20210312	3/12/2021	Water pumped through new tubing used for peristaltic pump.									X															
EB-1-20211705	5/17/2021	Water pumped through new tubing used for peristaltic pump.	X	X	X	X		X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EB-2-20212505	5/25/2021	Water pumped through new tubing used for peristaltic pump.	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EB-1-20212008	8/12/2021	Distilled water pumped through new tubing used for peristaltic pump.	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EB-2-20212508	8/25/2021	Distilled water pumped through new tubing used for peristaltic pump.	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EB-3-20210209	9/2/2021	Sample of distilled water directly from container.							X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EB-1-20211011	11/10/2021	Distilled water pumped through new tubing used for peristaltic pump.	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EB-2-20211611	11/16/2021	Distilled water pumped through new tubing used for peristaltic pump.	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table 8: Equipment Blank Summary of Analyses

Sample ID	Date	Sample Source	TPH		VOCs			SVOCs					Metals														
			TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Limited List SVOCs	PCB Aroclors	PFAS	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Vanadium	Zinc
EB-3-20212211	11/22/2021	Sample of distilled water directly from container.		X				X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FB-1-20211702	2/17/2021	Sample consisted of laboratory-supplied "PFAS-free" water directly from laboratory-supplied container. The laboratory-supplied water was the source of water used to decontaminate the water level indicator used at wells									X															
FB-1-20211711	11/17/2021										X															
FB-2-20210312	12/3/2021										X															

NOTES:

‡ Sample is a duplicate. See Table 6 for a list of duplicates and associated primary samples.

BTEX = benzene, toluene, ethylbenzene, and xylene; HVOCs = halogenated volatile organic compounds; MTBE = methyl tert-butyl ether; PAHs = polycyclic aromatic hydrocarbons; PCB = polychlorinated biphenyl; PFAS = per- and polyfluoroalkyl substances; SVOCs = semi-volatile organic compounds; TPH = total petroleum hydrocarbons; TPH-Dx = total petroleum hydrocarbons as diesel range extended; TPH-G = total petroleum hydrocarbons as gasoline range; VOCs = volatile organic compounds

Table 9: Screening Level Evaluation - Groundwater

Chemical	Most Stringent PCUL for Nonpotable Water		Values from LDW PCUL Workbook (2024)					Natural Background from Alternative Source	Laboratory Reporting Limit	Ecology 2023 PFAS Guidance[2]
	Value	Basis	Protect Drinking Water[1]	Protect Surface Water	Protect Sediment MTCA Modified Equation 747-1	Protect Indoor Air	Natural Background			
Polychlorinated Biphenyls (PCBs)										
Total PCB Aroclors	7.0E-06	Surface Water	2.2E-01	7.0E-06	8.6E-02	na	na	na	0.01	na
Inorganics										
Cyanide, free	1.0E+00	Surface Water	5.0E+00	1.0E+00	na	na	na	na	na	na
Nitrate	1.0E+04	Drinking Water	1.0E+04	na	na	na	na	na	na	na
Nitrite	1.0E+03	Drinking Water	1.0E+03	na	na	na	na	na	na	na
Sulfate	2.5E+05	Drinking Water	2.5E+05	na	na	na	na	na	na	na
Sulfide	2.0E+00	Surface Water	na	2.0E+00	na	na	na	na	na	na
Metals										
Aluminum	1.6E+04	Drinking Water	1.6E+04	na	na	na	na	na	0.05	na
Antimony	9.0E+01	Surface Water	6.0E+00	9.0E+01	na	na	na	na	na	na
Arsenic	8.0E+00	Natural Background	5.8E-01	1.4E-01	2.2E+02	na	8.0E+00	na	0.05	na
Barium	2.0E+02	Surface Water	2.0E+03	2.0E+02	9.3E+05	na	na	na	0.003	na
Beryllium	4.9E+00	Sediment	4.0E+00	7.6E+01	4.9E+00	na	na	na	0.001	na
Cadmium	1.2E+00	Sediment	5.0E+00	7.9E+00	1.2E+00	na	na	na	0.002	na
Chromium, total	1.0E+02	Drinking Water	1.0E+02	na	na	na	na	na	0.01	na
Chromium, trivalent	2.7E+01	Surface Water	2.4E+04	2.7E+01	8.5E+01	na	na	na	na	na
Chromium, hexavalent	3.6E-01	Surface Water	4.6E-02	3.6E-01	7.8E+01	na	na	na	0.01	na
Cobalt	4.8E+00	Drinking Water	4.8E+00	na	na	na	na	na	0.003	na
Copper	3.1E+00	Surface Water	6.4E+02	3.1E+00	1.4E+01	na	na	na	0.002	na
Iron	3.2E+04	Alternative Natural Background	3.0E+02	na	na	na	na	3.2E+04	0.05	na
Lead	5.6E+00	Surface Water	1.5E+01	5.6E+00	1.9E+01	na	na	na	0.02	na
Manganese	2.0E+03	Alternative Natural Background	5.0E+01	1.0E+02	na	na	na	2.0E+03	na	na
Mercury, inorganic	2.5E-02	Surface Water	2.0E+00	2.5E-02	2.0E+00	2.9E-01	na	na	na	na
Methylmercury	1.6E+00	Drinking Water	1.6E+00	na	na	na	na	na	na	na
Molybdenum	8.0E+01	Drinking Water	8.0E+01	na	na	na	na	na	na	na
Nickel	8.2E+00	Surface Water	3.2E+02	8.2E+00	2.6E+03	na	na	na	na	na
Selenium	7.1E+01	Surface Water	5.0E+01	7.1E+01	4.3E+05	na	na	na	na	na
Silver	1.9E+00	Surface Water	8.0E+01	1.9E+00	5.5E+01	na	na	na	na	na
Thallium	6.2E-02	Surface Water	1.6E-01	6.2E-02	2.5E+01	na	na	na	na	na
Tin	9.6E+03	Drinking Water	9.6E+03	na	na	na	na	na	na	na
Vanadium	1.4E+02	Drinking Water	1.4E+02	na	na	na	na	na	na	na
Zinc	8.1E+01	Surface Water	4.8E+03	8.1E+01	7.7E+02	na	na	na	na	na

Table 9: Screening Level Evaluation - Groundwater

Chemical	Most Stringent PCUL for Nonpotable Water		Values from LDW PCUL Workbook (2024)					Natural Background from Alternative Source	Laboratory Reporting Limit	Ecology 2023 PFAS Guidance[2]
	Value	Basis	Protect Drinking Water[1]	Protect Surface Water	Protect Sediment MTCA Modified Equation 747-1	Protect Indoor Air	Natural Background			
Semivolatile Organic Compounds (SVOCs) - Polycyclic Aromatic Hydrocarbons										
Acenaphthene	5.3E+00	Sediment	4.8E+02	3.0E+01	5.3E+00	na	na	na	na	na
Acenaphthylene	na	na	na	na	na	na	na	na	na	na
Anthracene	2.1E+00	Sediment	2.4E+03	1.0E+02	2.1E+00	na	na	na	na	na
Benzo(a)anthracene	1.6E-04	Surface Water	na	1.6E-04	1.9E-01	na	na	na	na	na
Benzo(b)fluoranthene	1.6E-04	Surface Water	na	1.6E-04	na	na	na	na	na	na
Benzo(k)fluoranthene	1.6E-03	Surface Water	na	1.6E-03	na	na	na	na	na	na
Total benzofluoranthenes	na	na	na	na	na	na	na	na	2.00	na
Benzo(g,h,i)perylene	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	1.6E-05	Surface Water	2.0E-01	1.6E-05	8.7E-02	na	na	na	na	na
Chrysene	1.6E-02	Surface Water	na	1.6E-02	4.0E-01	na	na	na	na	na
Dibenz(a,h)anthracene	1.6E-05	Surface Water	na	1.6E-05	6.8E-03	na	na	na	na	na
Dibenzofuran	3.1E+00	Sediment	8.0E+00	na	3.1E+00	na	na	na	na	na
Fluoranthene	1.8E+00	Sediment	6.4E+02	6.0E+00	1.8E+00	na	na	na	na	na
Fluorene	3.7E+00	Sediment	3.2E+02	1.0E+01	3.7E+00	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	1.6E-04	Surface Water	na	1.6E-04	1.6E-02	na	na	na	na	na
Methyl isopropyl phenanthrene (retene)	na	na	na	na	na	na	na	na	na	na
1-Methylnaphthalene	8.0E+02	Sediment	1.5E+00	na	8.0E+02	na	na	na	na	na
2-Methylnaphthalene	1.4E+01	Sediment	3.2E+01	na	1.4E+01	na	na	na	na	na
Naphthalene	1.4E+00	Surface Water	1.6E+02	1.4E+00	9.0E+01	8.9E+00	na	na	na	na
Phenanthrene	na	na	na	na	na	na	na	na	na	na
Pyrene	2.0E+00	Sediment	2.4E+02	8.0E+00	2.0E+00	na	na	na	na	na
Total LPAHs	na	na	na	na	na	na	na	na	na	na
Total HPAHs	na	na	na	na	na	na	na	na	na	na
Total PAHs	na	na	na	na	na	na	na	na	na	na
Total cPAH TEQ	1.6E-05	Surface Water	2.0E-01	1.6E-05	3.2E-02	na	na	na	na	na
Other SVOCs										
Aniline	1.2E+05	Sediment	1.5E+01	na	1.2E+05	na	na	na	na	na
Azobenzene	4.0E-01	Drinking Water	4.0E-01	na	na	na	na	na	na	na
Benzidine	2.3E-05	Surface Water	1.0E-04	2.3E-05	8.8E-02	na	na	na	na	na
Benzoic acid	5.9E+02	Sediment	6.4E+04	na	5.9E+02	na	na	na	na	na
Benzyl alcohol	5.6E+01	Sediment	1.6E+03	na	5.6E+01	na	na	na	na	na
Bis(2-chloroethoxy)methane	6.8E+05	Sediment	4.8E+01	na	6.8E+05	na	na	na	na	na
Bis(2-chloroethyl)ether	6.0E-02	Surface Water	4.0E-02	6.0E-02	1.3E+03	na	na	na	na	na

Table 9: Screening Level Evaluation - Groundwater

Chemical	Most Stringent PCUL for Nonpotable Water		Values from LDW PCUL Workbook (2024)					Natural Background from Alternative Source	Laboratory Reporting Limit	Ecology 2023 PFAS Guidance[2]
	Value	Basis	Protect Drinking Water[1]	Protect Surface Water	Protect Sediment MTCA Modified Equation 747-1	Protect Indoor Air	Natural Background			
Bis(chloromethyl)ether	1.7E-02	Surface Water	2.0E-04	1.7E-02	1.7E+01	na	na	na	na	na
Bis(2-chloro-1-methylethyl)ether	1.0E+02	Surface Water	6.3E-01	1.0E+02	1.9E+04	na	na	na	na	na
2,6-Bis(1,1-dimethylethyl) phenol	na	na	na	na	na	na	na	na	na	na
Bis(2-ethylhexyl) phthalate	4.6E-02	Surface Water	6.0E+00	4.6E-02	6.2E-01	na	na	na	na	na
4-Bromophenyl phenyl ether	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	1.3E-02	Surface Water	4.6E+01	1.3E-02	2.4E-01	na	na	na	na	na
Butyl diphenyl phosphate	na	na	na	na	na	na	na	na	na	na
Carbazole	na	na	na	na	na	na	na	na	na	na
4-Chloroaniline	2.4E+03	Sediment	4.4E-01	na	2.4E+03	na	na	na	na	na
4-Chloro-3-methylphenol (chlorocresol)	3.6E+01	Surface Water	1.6E+03	3.6E+01	2.0E+06	na	na	na	na	na
2-Chloronaphthalene	1.0E+02	Surface Water	6.4E+02	1.0E+02	3.2E+05	na	na	na	na	na
2-Chlorophenol	1.7E+01	Surface Water	4.0E+01	1.7E+01	4.2E+03	na	na	na	na	na
4-Chlorophenyl phenyl ether	na	na	na	na	na	na	na	na	na	na
Dibutyl phthalate	8.0E+00	Surface Water	1.6E+03	8.0E+00	4.6E+01	na	na	na	na	na
Dibutyl phenyl phosphate	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	4.5E+00	Sediment	6.0E+02	8.0E+02	4.5E+00	2.5E+03	na	na	na	na
1,3-Dichlorobenzene	2.0E+00	Surface Water	na	2.0E+00	na	na	na	na	na	na
1,4-Dichlorobenzene	5.0E+00	Indoor Air	7.5E+01	6.0E+01	8.9E+00	5.0E+00	na	na	na	na
3,3'-Dichlorobenzidine	3.3E-03	Surface Water	1.9E-01	3.3E-03	4.4E+02	na	na	na	na	na
2,4-Dichlorophenol	1.0E+01	Surface Water	4.8E+01	1.0E+01	8.2E+03	na	na	na	na	na
Di(2-ethylhexyl)adipate	4.0E+02	Drinking Water	4.0E+02	na	na	na	na	na	na	na
Diethyl phthalate	9.3E+01	Sediment	1.3E+04	2.0E+02	9.3E+01	na	na	na	na	na
Dimethyl phthalate	5.9E+01	Sediment	na	6.0E+02	5.9E+01	na	na	na	na	na
2,4-Dimethylphenol	2.9E+00	Sediment	3.2E+02	9.7E+01	2.9E+00	na	na	na	na	na
1,2-Dinitrobenzene	1.6E+00	Drinking Water	1.6E+00	na	na	na	na	na	na	na
1,3-Dinitrobenzene	1.6E+00	Drinking Water	1.6E+00	na	na	na	na	na	na	na
1,4-Dinitrobenzene	1.6E+00	Drinking Water	1.6E+00	na	na	na	na	na	na	na
4,6-Dinitro-o-cresol (DNOC)	7.0E+00	Surface Water	1.3E+00	7.0E+00	1.1E+03	na	na	na	na	na
2,4-Dinitrophenol	1.0E+02	Surface Water	3.2E+01	1.0E+02	6.5E+05	na	na	na	na	na
2,4-Dinitrotoluene	1.8E-01	Surface Water	2.8E-01	1.8E-01	3.6E+02	na	na	na	na	na
2,6-Dinitrotoluene	7.5E+01	Sediment	5.8E-02	na	7.5E+01	na	na	na	na	na
Di-n-octyl phthalate	2.3E+00	Sediment	1.6E+02	na	2.3E+00	na	na	na	na	na
1,4-Dioxane	4.7E+03	Indoor Air	4.4E-01	na	4.5E+04	4.7E+03	na	na	na	na
1,2-Diphenylhydrazine	2.0E-02	Surface Water	1.1E-01	2.0E-02	5.6E+01	na	na	na	na	na

Table 9: Screening Level Evaluation - Groundwater

Chemical	Most Stringent PCUL for Nonpotable Water		Values from LDW PCUL Workbook (2024)					Natural Background from Alternative Source	Laboratory Reporting Limit	Ecology 2023 PFAS Guidance[2]
	Value	Basis	Protect Drinking Water[1]	Protect Surface Water	Protect Sediment MTCA Modified Equation 747-1	Protect Indoor Air	Natural Background			
Hexachlorobenzene	5.0E-06	Surface Water	2.7E-01	5.0E-06	1.4E-02	2.4E-01	na	na	na	na
Hexachlorobutadiene	1.0E-02	Surface Water	5.6E-01	1.0E-02	6.6E-01	6.4E-01	na	na	na	na
Hexachlorocyclopentadiene	1.0E+00	Surface Water	4.8E+01	1.0E+00	5.4E+04	4.2E+00	na	na	na	na
Hexachloroethane	2.0E-02	Surface Water	1.1E+00	2.0E-02	1.7E+04	1.4E+00	na	na	na	na
Isophorone	1.1E+02	Surface Water	9.2E+01	1.1E+02	7.5E+05	na	na	na	na	na
2-Methoxynaphthalene	na	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	1.1E+01	Sediment	8.0E+02	na	1.1E+01	na	na	na	na	na
3-Methylphenol (m-cresol)	8.0E+02	Drinking Water	8.0E+02	na	na	na	na	na	na	na
4-Methylphenol (p-cresol)	1.1E+02	Sediment	1.6E+03	na	1.1E+02	na	na	na	na	na
2-Nitroaniline	7.4E+05	Sediment	1.6E+02	na	7.4E+05	na	na	na	na	na
3-Nitroaniline	na	na	na	na	na	na	na	na	na	na
4-Nitroaniline	1.1E+05	Sediment	4.4E+00	na	1.1E+05	na	na	na	na	na
Nitrobenzene	1.0E+02	Surface Water	1.6E+01	1.0E+02	1.7E+05	na	na	na	na	na
2-Nitrophenol	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	na	na	na	na	na	na	na	na	na	na
n-Nitrosodimethylamine	3.4E-01	Surface Water	2.3E-04	3.4E-01	1.1E+01	na	na	na	na	na
n-Nitrosodiphenylamine	5.5E-01	Sediment	1.8E+01	6.9E-01	5.5E-01	na	na	na	na	na
n-Nitrosodi-n-propylamine	5.8E-02	Surface Water	1.3E-02	5.8E-02	3.2E+01	na	na	na	na	na
Pentachlorophenol	2.0E-03	Surface Water	1.0E+00	2.0E-03	8.8E-01	na	na	na	na	na
Phenol	1.0E+02	Sediment	4.8E+03	7.0E+04	1.0E+02	na	na	na	na	na
Pyridine	1.2E+05	Sediment	8.0E+00	na	1.2E+05	na	na	na	na	na
2,3,4,5-Tetrachlorophenol	na	na	na	na	na	na	na	na	na	na
2,3,4,6-Tetrachlorophenol	4.8E+02	Drinking Water	4.8E+02	na	na	na	na	na	na	na
1,2,4-Trichlorobenzene	3.7E-02	Surface Water	1.5E+01	3.7E-02	9.6E-01	3.9E+01	na	na	na	na
2,4,5-Trichlorophenol	6.0E+02	Surface Water	1.6E+03	6.0E+02	6.7E+04	na	na	na	na	na
2,4,6-Trichlorophenol	2.8E-01	Surface Water	8.0E+00	2.8E-01	9.1E+02	na	na	na	na	na
Volatile Organic Compounds										
Acetone	3.4E+08	Sediment	7.2E+03	na	3.4E+08	na	na	na	na	na
Acetaldehyde	6.2E+02	Indoor Air	na	na	na	6.2E+02	na	na	na	na
Acrolein	1.1E+00	Surface Water	4.0E+00	1.1E+00	2.0E+05	2.9E+00	na	na	na	na
Acrylonitrile	2.8E-02	Surface Water	8.1E-02	2.8E-02	7.1E+03	1.2E+01	na	na	na	na
Benzaldehyde	9.0E+05	Sediment	1.1E+01	na	9.0E+05	na	na	na	na	na
Benzene	1.6E+00	Surface Water	5.0E+00	1.6E+00	3.0E+04	2.4E+00	na	na	na	na
Bromobenzene	6.3E+02	Indoor Air	6.4E+01	na	3.9E+05	6.3E+02	na	na	na	na

Table 9: Screening Level Evaluation - Groundwater

Chemical	Most Stringent PCUL for Nonpotable Water		Values from LDW PCUL Workbook (2024)					Natural Background from Alternative Source	Laboratory Reporting Limit	Ecology 2023 PFAS Guidance[2]
	Value	Basis	Protect Drinking Water[1]	Protect Surface Water	Protect Sediment MTCA Modified Equation 747-1	Protect Indoor Air	Natural Background			
Bromochloromethane	na	na	na	na	na	na	na	na	na	na
Bromoethane	na	na	na	na	na	na	na	na	na	na
Bromoform	1.2E+01	Surface Water	5.5E+01	1.2E+01	1.2E+05	2.2E+02	na	na	na	na
Bromomethane	1.1E+01	Indoor Air	1.1E+01	2.7E+02	4.4E+05	1.1E+01	na	na	na	na
2-Butoxyethanol (EGBE)	3.0E+07	Sediment	8.0E+02	na	3.0E+07	na	na	na	na	na
n-Butylbenzene	4.2E+05	Sediment	4.0E+02	na	4.2E+05	na	na	na	na	na
sec-Butylbenzene	9.4E+05	Sediment	8.0E+02	na	9.4E+05	na	na	na	na	na
tert-Butylbenzene	1.2E+06	Sediment	8.0E+02	na	1.2E+06	na	na	na	na	na
Carbon disulfide	8.4E+02	Indoor Air	8.0E+02	na	2.4E+07	8.4E+02	na	na	na	na
Carbon tetrachloride	3.5E-01	Surface Water	5.0E+00	3.5E-01	1.2E+04	6.2E-01	na	na	na	na
Chlorobenzene	2.0E+02	Surface Water	1.0E+02	2.0E+02	1.0E+06	3.4E+02	na	na	na	na
Chloroethane	1.5E+04	Indoor Air	na	na	na	1.5E+04	na	na	na	na
2-Chloroethyl vinyl ether	na	na	na	na	na	na	na	na	na	na
Chloroform	1.2E+00	Indoor Air	1.4E+01	1.5E+02	5.8E+04	1.2E+00	na	na	na	na
Chloromethane	1.5E+02	Indoor Air	na	na	na	1.5E+02	na	na	na	na
3-Chloro-1-propene (allyl chloride)	1.5E+00	Indoor Air	2.1E+00	na	1.0E+05	1.5E+00	na	na	na	na
2-Chlorotoluene	6.2E+05	Sediment	1.6E+02	na	6.2E+05	na	na	na	na	na
4-Chlorotoluene	6.3E+05	Sediment	1.6E+02	na	6.3E+05	na	na	na	na	na
Dibromochloromethane	2.2E+00	Surface Water	5.2E+00	2.2E+00	2.9E+04	na	na	na	na	na
1,2-Dibromo-3-chloropropane	4.2E-02	Indoor Air	1.4E-01	na	2.5E+02	4.2E-02	na	na	na	na
Dibromomethane	8.7E+01	Indoor Air	8.0E+01	na	1.4E+06	8.7E+01	na	na	na	na
Dichlorobromomethane	1.4E+00	Indoor Air	7.1E+00	2.8E+00	3.9E+04	1.4E+00	na	na	na	na
trans-1,4-Dichloro-2-butene	na	na	na	na	na	na	na	na	na	na
Dichlorodifluoromethane	4.2E+00	Indoor Air	1.6E+03	na	3.4E+07	4.2E+00	na	na	na	na
1,1-Dichloroethane	1.1E+01	Indoor Air	7.7E+00	na	3.2E+05	1.1E+01	na	na	na	na
1,2-Dichloroethane (EDC)	3.5E+00	Indoor Air	4.8E+00	7.3E+01	2.4E+04	3.5E+00	na	na	na	na
1,1-Dichloroethylene	1.3E+02	Indoor Air	7.0E+00	4.0E+03	6.6E+06	1.3E+02	na	na	na	na
cis-1,2-Dichloroethylene	1.8E+02	Indoor Air	1.6E+01	na	3.6E+05	1.8E+02	na	na	na	na
trans-1,2-Dichloroethylene	7.7E+01	Indoor Air	1.0E+02	1.0E+03	3.7E+06	7.7E+01	na	na	na	na
1,2-Dichloroethylene (mixed isomers)	na	na	na	na	na	na	na	na	na	na
1,2-Dichloropropane	3.1E+00	Surface Water	5.0E+00	3.1E+00	5.3E+04	1.0E+01	na	na	na	na
1,3-Dichloropropane	2.5E+06	Sediment	1.6E+02	na	2.5E+06	na	na	na	na	na
2,2-Dichloropropane	na	na	na	na	na	na	na	na	na	na
1,1-Dichloropropene	na	na	na	na	na	na	na	na	na	na

Table 9: Screening Level Evaluation - Groundwater

Chemical	Most Stringent PCUL for Nonpotable Water		Values from LDW PCUL Workbook (2024)					Natural Background from Alternative Source	Laboratory Reporting Limit	Ecology 2023 PFAS Guidance[2]
	Value	Basis	Protect Drinking Water[1]	Protect Surface Water	Protect Sediment MTCA Modified Equation 747-1	Protect Indoor Air	Natural Background			
cis-1,3-Dichloropropene	1.2E+00	Surface Water	4.4E-01	1.2E+00	2.6E+04	1.6E+00	na	na	na	na
trans-1,3-Dichloropropene	1.2E+00	Surface Water	4.4E-01	1.2E+00	2.6E+04	1.6E+00	na	na	na	na
Diisopropyl ether	na	na	na	na	na	na	na	na	na	na
Ethane	na	na	na	na	na	na	na	na	na	na
Ethylbenzene	2.1E+01	Surface Water	7.0E+02	2.1E+01	5.4E+06	2.8E+03	na	na	na	na
Ethylene oxide	5.4E-02	Indoor Air	3.7E-02	na	2.8E+03	5.4E-02	na	na	na	na
Ethyl ether	6.2E+07	Sediment	1.6E+03	na	6.2E+07	na	na	na	na	na
Ethylene dibromide (EDB)	3.0E-01	Indoor Air	5.0E-02	na	7.9E+02	3.0E-01	na	na	na	na
Formaldehyde	2.2E+05	Sediment	2.1E+00	na	2.2E+05	na	na	na	na	na
n-Hexane	4.1E+00	Indoor Air	4.8E+02	na	2.2E+05	4.1E+00	na	na	na	na
2-Hexanone	7.3E+03	Indoor Air	4.0E+01	na	2.0E+06	7.3E+03	na	na	na	na
Isopropylbenzene (cumene)	9.1E+02	Indoor Air	8.0E+02	na	1.8E+06	9.1E+02	na	na	na	na
4-Isopropyltoluene	na	na	na	na	na	na	na	na	na	na
Methane	na	na	na	na	na	na	na	na	na	na
Methyl ethyl ketone (2-butanone)	1.7E+06	Indoor Air	4.8E+03	na	2.1E+08	1.7E+06	na	na	na	na
Methyl iodide	na	na	na	na	na	na	na	na	na	na
Methyl isobutyl ketone	4.7E+05	Indoor Air	6.4E+02	na	2.3E+07	4.7E+05	na	na	na	na
Methyl tert-butyl ether (MTBE)	8.0E+02	Indoor Air	2.4E+01	na	2.0E+06	8.0E+02	na	na	na	na
Methylene chloride	1.0E+02	Surface Water	5.0E+00	1.0E+02	3.6E+05	7.8E+02	na	na	na	na
2-Pentanone	na	na	na	na	na	na	na	na	na	na
n-Propylbenzene	2.3E+03	Indoor Air	8.0E+02	na	1.5E+06	2.3E+03	na	na	na	na
Styrene	8.5E+03	Indoor Air	1.0E+02	na	2.7E+06	8.5E+03	na	na	na	na
1,1,1,2-Tetrachloroethane	7.1E+00	Indoor Air	1.7E+00	na	5.0E+04	7.1E+00	na	na	na	na
1,1,2,2-Tetrachloroethane	3.0E-01	Surface Water	2.2E-01	3.0E-01	6.9E+03	5.9E+00	na	na	na	na
Tetrachloroethylene (PCE)	2.9E+00	Surface Water	5.0E+00	2.9E+00	2.5E+05	2.5E+01	na	na	na	na
Tetrahydrofuran	1.3E+06	Indoor Air	7.2E+03	na	2.7E+08	1.3E+06	na	na	na	na
Toluene	1.0E+02	Surface Water	6.4E+02	1.0E+02	6.0E+06	1.5E+04	na	na	na	na
1,2,3-Trichlorobenzene	7.3E+03	Sediment	6.4E+00	na	7.3E+03	na	na	na	na	na
1,1,1-Trichloroethane	5.4E+03	Indoor Air	2.0E+02	5.0E+04	1.5E+08	5.4E+03	na	na	na	na
1,1,2-Trichloroethane	9.0E-01	Surface Water	3.0E+00	9.0E-01	2.5E+04	5.1E+00	na	na	na	na
Trichloroethylene (TCE)	7.0E-01	Surface Water	4.0E+00	7.0E-01	5.2E+03	1.4E+00	na	na	na	na
Trichlorofluoroethane	na	na	na	na	na	na	na	na	na	na
Trichlorofluoromethane	1.2E+02	Indoor Air	2.4E+03	na	5.1E+07	1.2E+02	na	na	na	na
1,2,3-Trichloropropane	6.8E+00	Sediment	3.8E-04	na	6.8E+00	2.0E+01	na	na	na	na

Table 9: Screening Level Evaluation - Groundwater

Chemical	Most Stringent PCUL for Nonpotable Water		Values from LDW PCUL Workbook (2024)					Natural Background from Alternative Source	Laboratory Reporting Limit	Ecology 2023 PFAS Guidance[2]
	Value	Basis	Protect Drinking Water[1]	Protect Surface Water	Protect Sediment MTCA Modified Equation 747-1	Protect Indoor Air	Natural Background			
Trichlorotrifluoroethane	1.7E+02	Indoor Air	2.4E+05	na	1.7E+09	1.7E+02	na	na	na	na
1,2,3-Trimethylbenzene	4.1E+02	Indoor Air	8.0E+01	na	1.9E+05	4.1E+02	na	na	na	na
1,2,4-Trimethylbenzene	2.4E+02	Indoor Air	8.0E+01	na	2.0E+05	2.4E+02	na	na	na	na
1,3,5-Trimethylbenzene	1.7E+02	Indoor Air	8.0E+01	na	2.0E+05	1.7E+02	na	na	na	na
Vinyl acetate	8.1E+03	Indoor Air	8.0E+03	na	3.4E+08	8.1E+03	na	na	na	na
Vinyl chloride	1.8E-01	Surface Water	2.9E-01	1.8E-01	1.9E+03	3.3E-01	na	na	na	na
Total xylenes	1.1E+02	Surface Water	1.6E+03	1.1E+02	9.7E+06	3.2E+02	na	na	na	na
Per- and Polyfluoroalkyl Substances (PFAS)										
GenX (HFPO-DA)	2.4E-02	Drinking Water	2.4E-02	na	na	na	na	na	na	na
Perfluorobutanoic acid (PFBA)	8.3E+02	2023 PFAS	8.0E+00	na	na	na	na	na	na	8.3E+02
Perfluorobutanesulfonic acid (PFBS)	1.3E+05	Surface Water	3.5E-01	1.3E+05	na	na	na	na	na	na
Perfluorohexanoic acid (PFHxA)	6.4E+03	2023 PFAS	8.0E+00	na	na	na	na	na	na	6.4E+03
Perfluorohexanesulfonic acid (PFHxS)	na	na	6.5E-02	na	na	na	na	na	na	na
Perfluorononanoic acid (PFNA)	1.0E+01	Surface Water	9.0E-03	1.0E+01	na	na	na	na	na	na
Perfluorooctanesulfonic acid (PFOS)	1.1E+00	Surface Water	1.5E-02	1.1E+00	na	na	na	na	na	na
Perfluorooctanoic acid (PFOA)	1.2E+02	Surface Water	1.0E-02	1.2E+02	na	na	na	na	na	na
Petroleum Hydrocarbons										
Gasoline range hydrocarbons, fresh	8.0E+02	Surface Water	8.0E+02	8.0E+02	na	na	na	na	na	na
Gasoline range hydrocarbons, weathered	1.0E+03	Surface Water	1.0E+03	1.0E+03	na	na	na	na	na	na
Diesel range hydrocarbons, fresh	5.0E+01	Surface Water	5.0E+02	5.0E+01	na	na	na	na	na	na
Diesel range hydrocarbons, weathered	5.0E+02	Surface Water	5.0E+02	5.0E+02	na	na	na	na	na	na
Oil range hydrocarbons	5.0E+02	Surface Water	5.0E+02	5.0E+02	na	na	na	na	na	na
Total diesel & oil range hydrocarbons	5.0E+02	Surface Water	5.0E+02	5.0E+02	na	na	na	na	na	na

NOTES:

1. Values for nonpotable groundwater are not available; selected value is based on potable groundwater.
2. Values from Guidance for Investigating and Remediating PFAS Contamination in Washington State, prepared by Ecology, publication no. 22-09-058, June 2023 (Ecology 2023 PFAS Guidance).

CUL = cleanup level; Ecology = Washington State Department of Ecology; LDW = Lower Duwamish Waterway; mg/kg = milligrams per kilogram; MTCA = Model Toxics Control Act; na = not available; PCUL = preliminary cleanup level; ROD = record of decision; SMS = sediment management standards; TEE = Terrestrial Ecological Evaluation; TEQ = toxic equivalent concentration

Table 10: Screening Level Evaluation - Soil

Chemical (all concentrations are in mg/kg)	Most Stringent Soil PCUL for Saturated Zone and Nonpotable Groundwater		Values from LDW PCUL Workbook (2024)						
	Value	Basis	Direct Contact MTCA Method B	Surface Water via Ground Water Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Groundwater Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Erosion Minimum ROD CUL + SMS Lower Tier Sed	Natural Background Ecology (1994)	Simplified TEE Industrial or Commercial Sites MTCA Table 749-2	Laboratory Reporting Limit
Polychlorinated Biphenyls (PCBs)									
Total PCB Aroclors	5.5E-07	Surface Water	1.0E+00	5.5E-07	6.8E-03	1.3E-01	na	2	0.02
Inorganics									
Cyanide, free	1.0E-02	Surface Water	5.0E+01	1.0E-02	na	1.5E+02	na	na	na
Nitrate	1.3E+05	Direct Contact	1.3E+05	na	na	3.9E+05	na	na	na
Nitrite	8.0E+03	Direct Contact	8.0E+03	na	na	2.4E+04	na	na	na
Sulfate	na	na	na	na	na	na	na	na	na
Sulfide	na	na	na	na	na	na	na	na	na
Metals									
Aluminum	3.3E+04	Natural Background	8.0E+04	na	na	2.4E+05	3.3E+04	na	5
Antimony	5.2E+00	Natural Background	3.2E+01	4.1E+00	na	9.7E+01	5.2E+00	na	5
Arsenic	7.3E+00	Natural Background	6.7E-01	2.3E-01	6.5E+00	7.0E+00	7.3E+00	20	5
Barium	2.5E+02	Natural Background	1.6E+04	8.3E+00	3.8E+04	4.9E+04	2.5E+02	1,320	0.3
Beryllium	3.8E+00	Sediment	1.6E+02	6.0E+01	3.8E+00	4.9E+02	6.1E-01	25*	0.1
Cadmium	7.7E-01	Natural Background	8.0E+01	5.5E-02	8.3E-03	5.1E+00	7.7E-01	36	0.2
Chromium, total	4.8E+01	Natural Background	na	na	na	2.6E+02	4.8E+01	135	0.5
Chromium, trivalent	2.7E+01	Surface Water	1.2E+05	2.7E+01	8.5E+01	3.7E+05	na	na	0.5
Chromium, hexavalent	6.9E-03	Surface Water	3.8E-01	6.9E-03	1.5E+00	1.1E+00	na	na	0.4
Cobalt	2.4E+01	Direct Contact	2.4E+01	na	na	7.3E+01	1.1E+01	na	0.3
Copper	3.6E+01	Natural Background	3.2E+03	6.9E-02	3.0E-01	3.9E+02	3.6E+01	550	0.2
Iron	5.6E+04	Direct Contact	5.6E+04	na	na	1.7E+05	3.6E+04	na	5
Lead	5.6E+01	Surface Water	2.5E+02	5.6E+01	1.9E+02	4.5E+02	2.4E+01	220	2
Manganese	1.1E+03	Natural Background	3.7E+03	6.5E+00	na	1.1E+04	1.1E+03	23500	0.1
Mercury, inorganic	7.0E-02	Natural Background	na	1.3E-03	1.1E-01	2.0E-01	7.0E-02	9	0.025
Methylmercury	7.0E-01	Simplified TEE	8.0E+00	na	na	2.4E+01	na	0.7	na
Molybdenum	7.1E+01	Simplified TEE	4.0E+02	na	na	1.2E+03	na	71	0.5
Nickel	4.8E+01	Natural Background	1.6E+03	5.4E-01	1.7E+02	4.9E+03	4.8E+01	1850	1
Selenium	7.8E-01	Natural Background	4.0E+02	3.8E-01	2.3E+03	1.2E+03	7.8E-01	0.8	5
Silver	6.1E-01	Natural Background	4.0E+02	1.6E-02	4.7E-01	6.1E+00	6.1E-01	na	0.3
Thallium	4.4E-03	Surface Water	8.0E-01	4.4E-03	1.8E+00	2.4E+00	na	na	5
Tin	2.8E+02	Simplified TEE	4.8E+04	na	na	1.5E+05	na	275*	1
Vanadium	4.5E+01	Natural Background	7.2E+02	na	na	2.2E+03	4.5E+01	26*	0.3
Zinc	8.5E+01	Natural Background	2.4E+04	5.0E+00	4.8E+01	4.1E+02	8.5E+01	570	1

Table 10: Screening Level Evaluation - Soil

Chemical (all concentrations are in mg/kg)	Most Stringent Soil PCUL for Saturated Zone and Nonpotable Groundwater		Values from LDW PCUL Workbook (2024)						
	Value	Basis	Direct Contact MTCA Method B	Surface Water via Ground Water Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Groundwater Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Erosion Minimum ROD CUL + SMS Lower Tier Sed	Natural Background Ecology (1994)	Simplified TEE Industrial or Commercial Sites MTCA Table 749-2	Laboratory Reporting Limit
Semivolatile Organic Compounds (SVOCs) - Polycyclic Aromatic Hydrocarbons									
Acenaphthene	2.8E-02	Sediment	4.8E+03	1.6E-01	2.8E-02	1.6E+01	na	na	0.02
Acenaphthylene	na	na	na	na	na	na	na	na	0.02
Anthracene	5.1E-02	Sediment	2.4E+04	2.4E+00	5.1E-02	2.2E+02	na	na	0.02
Benzo(a)anthracene	1.1E+02	Bank Erosion	na	na	na	1.1E+02	na	na	0.0005
Benzo(b)fluoranthene	na	na	na	na	na	na	na	na	0.0005
Benzo(k)fluoranthene	na	na	na	na	na	na	na	na	0.0005
Total benzofluoranthenes	2.3E+02	Bank Erosion	na	na	na	2.3E+02	na	na	na
Benzo(g,h,i)perylene	3.1E+01	Bank Erosion	na	na	na	3.1E+01	na	na	0.02
Benzo(a)pyrene	1.6E-05	Surface Water	1.9E-01	1.6E-05	8.4E-02	9.9E+01	na	300	0.0005
Chrysene	1.1E+02	Bank Erosion	na	na	na	1.1E+02	na	na	0.02
Dibenz(a,h)anthracene	1.2E+01	Bank Erosion	na	na	na	1.2E+01	na	na	0.0005
Dibenzofuran	2.9E-02	Sediment	8.0E+01	na	2.9E-02	1.5E+01	na	na	0.02
Fluoranthene	9.0E-02	Sediment	3.2E+03	3.0E-01	9.0E-02	1.6E+02	na	na	0.02
Fluorene	2.9E-02	Sediment	3.2E+03	8.0E-02	2.9E-02	2.3E+01	na	na	0.02
Indeno(1,2,3-cd)pyrene	3.4E+01	Bank Erosion	na	na	na	3.4E+01	na	na	0.0005
Methyl isopropyl phenanthrene (retene)	na	na	na	na	na	na	na	na	na
1-Methylnaphthalene	2.3E+00	Sediment	3.4E+01	na	2.3E+00	3.9E+01	na	na	0.02
2-Methylnaphthalene	3.9E-02	Sediment	3.2E+02	na	3.9E-02	3.8E+01	na	na	0.02
Naphthalene	2.1E-03	Surface Water	1.6E+03	2.1E-03	1.3E-01	9.9E+01	na	na	0.005
Phenanthrene	1.0E+02	Bank Erosion	na	na	na	1.0E+02	na	na	0.02
Pyrene	1.4E-01	Sediment	2.4E+03	5.5E-01	1.4E-01	1.0E+03	na	na	0.02
Total LPAHs	3.7E+02	Bank Erosion	na	na	na	3.7E+02	na	na	na
Total HPAHs	9.6E+02	Bank Erosion	na	na	na	9.6E+02	na	na	na
Total PAHs	na	na	na	na	na	na	na	na	na
Total cPAH TEQ	1.6E-05	Surface Water	1.9E-01	1.6E-05	3.1E-02	5.9E-01	na	na	na
Other SVOCs									
Aniline	4.3E+01	Sediment	1.8E+02	na	4.3E+01	2.3E+02	na	na	0.1
Azobenzene	9.1E+00	Direct Contact	9.1E+00	na	na	2.7E+01	na	na	0.02
Benzidine	3.4E-08	Surface Water	8.2E-04	3.4E-08	1.3E-04	2.0E-03	na	na	0.2
Benzoic acid	1.7E-01	Sediment	3.2E+05	na	1.7E-01	6.5E-01	na	na	0.1
Benzyl alcohol	1.7E-02	Sediment	8.0E+03	na	1.7E-02	5.7E-02	na	na	0.02
Bis(2-chloroethoxy)methane	2.1E+02	Sediment	2.4E+02	na	2.1E+02	6.0E+02	na	na	0.02
Bis(2-chloroethyl)ether	2.2E-05	Surface Water	9.1E-01	2.2E-05	4.7E-01	2.7E+00	na	na	0.02

Table 10: Screening Level Evaluation - Soil

Chemical (all concentrations are in mg/kg)	Most Stringent Soil PCUL for Saturated Zone and Nonpotable Groundwater		Values from LDW PCUL Workbook (2024)					Simplified TEE Industrial or Commercial Sites MTCA Table 749-2	Laboratory Reporting Limit
	Value	Basis	Direct Contact MTCA Method B	Surface Water via Ground Water Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Groundwater Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Erosion Minimum ROD CUL + SMS Lower Tier Sed	Natural Background Ecology (1994)		
Bis(chloromethyl)ether	4.5E-03	Direct Contact	4.5E-03	na	na	1.3E-02	na	na	na
Bis(2-chloro-1-methylethyl)ether	3.8E-02	Surface Water	1.4E+01	3.8E-02	7.1E+00	4.2E+01	na	na	0.02
2,6-Bis(1,1-dimethylethyl) phenol	na	na	na	na	na	na	na	na	na
Bis(2-ethylhexyl) phthalate	5.1E-03	Surface Water	7.1E+01	5.1E-03	6.9E-02	4.7E+01	na	na	0.05
4-Bromophenyl phenyl ether	na	na	na	na	na	na	na	na	0.02
Butyl benzyl phthalate	1.8E-04	Surface Water	5.3E+02	1.8E-04	3.4E-03	4.9E+00	na	na	0.005
Butyl diphenyl phosphate	na	na	na	na	na	na	na	na	0.067
Carbazole	na	na	na	na	na	na	na	na	0.02
4-Chloroaniline	9.6E-01	Sediment	5.0E+00	na	9.6E-01	6.6E+00	na	na	0.1
4-Chloro-3-methylphenol (chlorocresol)	2.8E-02	Surface Water	8.0E+03	2.8E-02	1.6E+03	2.0E+04	na	na	0.1
2-Chloronaphthalene	2.8E-01	Surface Water	6.4E+03	2.8E-01	8.8E+02	1.5E+04	na	na	0.02
2-Chlorophenol	1.1E-02	Surface Water	4.0E+02	1.1E-02	2.9E+00	1.2E+03	na	na	0.02
4-Chlorophenyl phenyl ether	na	na	na	na	na	na	na	na	0.02
Dibutyl phthalate	1.5E-02	Surface Water	8.0E+03	1.5E-02	8.5E-02	2.0E+04	na	200*	0.02
Dibutyl phenyl phosphate	na	na	na	na	na	na	na	na	0.067
1,2-Dichlorobenzene	3.0E-03	Sediment	7.2E+03	5.3E-01	3.0E-03	2.3E+00	na	na	0.001
1,3-Dichlorobenzene	1.3E-03	Surface Water	na	1.3E-03	na	na	na	na	0.001
1,4-Dichlorobenzene	8.1E-03	Sediment	1.9E+02	5.4E-02	8.1E-03	3.1E+00	na	na	0.001
3,3'-Dichlorobenzidine	2.0E-06	Surface Water	2.2E+00	2.0E-06	2.7E-01	2.9E+00	na	na	0.1
2,4-Dichlorophenol	4.3E-03	Surface Water	2.4E+02	4.3E-03	3.6E+00	6.0E+02	na	na	0.1
Di(2-ethylhexyl)adipate	8.3E+02	Direct Contact	8.3E+02	na	na	1.1E+03	na	na	na
Diethyl phthalate	3.4E-02	Sediment	6.4E+04	7.4E-02	3.4E-02	1.6E+05	na	na	0.02
Dimethyl phthalate	1.9E-02	Sediment	na	1.9E-01	1.9E-02	5.3E+01	na	na	0.02
2,4-Dimethylphenol	2.3E-03	Sediment	1.6E+03	7.6E-02	2.3E-03	2.9E-02	na	na	0.025
1,2-Dinitrobenzene	8.0E+00	Direct Contact	8.0E+00	na	na	2.0E+01	na	na	na
1,3-Dinitrobenzene	8.0E+00	Direct Contact	8.0E+00	na	na	2.0E+01	na	na	na
1,4-Dinitrobenzene	8.0E+00	Direct Contact	8.0E+00	na	na	2.0E+01	na	na	na
4,6-Dinitro-o-cresol (DNOC)	7.3E-03	Surface Water	6.4E+00	7.3E-03	1.1E+00	1.6E+01	na	na	0.2
2,4-Dinitrophenol	2.9E-02	Surface Water	1.6E+02	2.9E-02	1.9E+02	4.0E+02	na	na	0.2
2,4-Dinitrotoluene	1.6E-04	Surface Water	3.2E+00	1.6E-04	3.1E-01	4.2E+00	na	na	0.1
2,6-Dinitrotoluene	6.6E-02	Sediment	6.7E-01	na	6.6E-02	8.9E-01	na	na	0.1
Di-n-octyl phthalate	3.3E-01	Sediment	8.0E+02	na	3.3E-01	2.0E+03	na	na	0.02
1,4-Dioxane	1.0E+01	Direct Contact	1.0E+01	na	1.3E+01	2.9E+01	na	na	0.335
1,2-Diphenylhydrazine	3.6E-05	Surface Water	1.3E+00	3.6E-05	1.0E-01	1.7E+00	na	na	na

Table 10: Screening Level Evaluation - Soil

Chemical (all concentrations are in mg/kg)	Most Stringent Soil PCUL for Saturated Zone and Nonpotable Groundwater		Values from LDW PCUL Workbook (2024)						
	Value	Basis	Direct Contact MTCA Method B	Surface Water via Ground Water Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Groundwater Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Erosion Minimum ROD CUL + SMS Lower Tier Sed	Natural Background Ecology (1994)	Simplified TEE Industrial or Commercial Sites MTCA Table 749-2	Laboratory Reporting Limit
Hexachlorobenzene	4.0E-07	Surface Water	6.3E-01	4.0E-07	1.2E-03	3.8E-01	na	31	0.005
Hexachlorobutadiene	1.1E-05	Surface Water	1.3E+01	1.1E-05	7.5E-04	3.7E+01	na	na	0.005
Hexachlorocyclopentadiene	1.7E-03	Surface Water	4.8E+02	1.7E-03	9.1E+01	1.5E+03	na	na	0.1
Hexachloroethane	9.7E-06	Surface Water	2.5E+01	9.7E-06	8.1E+00	7.3E+01	na	na	0.02
Isophorone	3.9E-02	Surface Water	1.1E+03	3.9E-02	2.7E+02	1.4E+03	na	na	0.02
2-Methoxynaphthalene	na	na	na	na	na	na	na	na	na
2-Methylphenol (o-cresol)	6.4E-03	Sediment	4.0E+03	na	6.4E-03	6.3E-02	na	na	0.005
3-Methylphenol (m-cresol)	4.0E+03	Direct Contact	4.0E+03	na	na	1.0E+04	na	na	na
4-Methylphenol (p-cresol)	6.2E-02	Sediment	8.0E+03	na	6.2E-02	6.7E-01	na	na	0.005
2-Nitroaniline	2.9E+02	Sediment	8.0E+02	na	2.9E+02	2.0E+03	na	na	0.1
3-Nitroaniline	na	na	na	na	na	na	na	na	0.1
4-Nitroaniline	3.0E+01	Sediment	5.0E+01	na	3.0E+01	6.6E+01	na	na	0.1
Nitrobenzene	4.1E-02	Surface Water	1.6E+02	4.1E-02	6.9E+01	4.9E+02	na	na	0.02
2-Nitrophenol	na	na	na	na	na	na	na	na	0.02
4-Nitrophenol	na	na	na	na	na	na	na	na	0.1
n-Nitrosodimethylamine	1.1E-04	Surface Water	3.7E-03	1.1E-04	3.3E-03	1.1E-02	na	na	0.025
n-Nitrosodiphenylamine	1.6E-03	Sediment	2.0E+02	2.0E-03	1.6E-03	1.1E+01	na	na	0.005
n-Nitrosodi-n-propylamine	3.3E-05	Surface Water	1.4E-01	3.3E-05	1.8E-02	1.9E-01	na	na	0.02
Pentachlorophenol	1.8E-06	Surface Water	2.5E+00	1.8E-06	7.7E-04	3.6E-01	na	11	0.02
Phenol	4.8E-02	Sediment	2.4E+04	3.3E+01	4.8E-02	4.2E-01	na	na	0.02
Pyridine	4.4E+01	Sediment	8.0E+01	na	4.4E+01	2.4E+02	na	na	0.1
2,3,4,5-Tetrachlorophenol	na	na	na	na	na	na	na	na	na
2,3,4,6-Tetrachlorophenol	2.4E+03	Direct Contact	2.4E+03	na	na	6.0E+03	na	na	na
1,2,4-Trichlorobenzene	7.2E-05	Surface Water	3.4E+01	7.2E-05	1.9E-03	8.1E-01	na	na	0.005
2,4,5-Trichlorophenol	1.1E+00	Surface Water	8.0E+03	1.1E+00	1.3E+02	2.0E+04	na	na	0.1
2,4,6-Trichlorophenol	1.9E-04	Surface Water	8.0E+01	1.9E-04	6.1E-01	1.2E+02	na	na	0.1

Table 10: Screening Level Evaluation - Soil

Chemical (all concentrations are in mg/kg)	Most Stringent Soil PCUL for Saturated Zone and Nonpotable Groundwater		Values from LDW PCUL Workbook (2024)						
	Value	Basis	Direct Contact MTCA Method B	Surface Water via Ground Water Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Groundwater Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Erosion Minimum ROD CUL + SMS Lower Tier Sed	Natural Background Ecology (1994)	Simplified TEE Industrial or Commercial Sites MTCA Table 749-2	Laboratory Reporting Limit
Volatile Organic Compounds									
Acetone	7.2E+04	Direct Contact	7.2E+04	na	9.8E+04	2.2E+05	na	na	0.005
Acetaldehyde	na	na	na	na	na	na	na	na	na
Acrolein	3.2E-04	Surface Water	4.0E+01	3.2E-04	5.6E+01	1.2E+02	na	na	0.005
Acrylonitrile	8.3E-06	Surface Water	1.9E+00	8.3E-06	2.1E+00	5.4E+00	na	na	0.005
Benzaldehyde	2.5E+02	Direct Contact	2.5E+02	na	2.7E+02	7.3E+02	na	na	na
Benzene	5.6E-04	Surface Water	1.8E+01	5.6E-04	1.0E+01	5.3E+01	na	na	0.001
Bromobenzene	2.0E+02	Sediment	6.4E+02	na	2.0E+02	1.9E+03	na	na	0.001
Bromochloromethane	na	na	na	na	na	na	na	na	0.001
Bromoethane	na	na	na	na	na	na	na	na	0.002
Bromoform	5.0E-03	Surface Water	1.3E+02	5.0E-03	5.1E+01	3.7E+02	na	na	0.001
Bromomethane	7.9E-02	Surface Water	1.1E+02	7.9E-02	1.3E+02	3.4E+02	na	na	0.001
2-Butoxyethanol (EGBE)	8.0E+03	Direct Contact	8.0E+03	na	8.8E+03	2.0E+04	na	na	na
n-Butylbenzene	7.5E+02	Sediment	4.0E+03	na	7.5E+02	1.2E+04	na	na	0.001
sec-Butylbenzene	1.5E+03	Sediment	8.0E+03	na	1.5E+03	2.4E+04	na	na	0.001
tert-Butylbenzene	1.6E+03	Sediment	8.0E+03	na	1.6E+03	2.4E+04	na	na	0.001
Carbon disulfide	7.4E+03	Sediment	8.0E+03	na	7.4E+03	2.4E+04	na	na	0.001
Carbon tetrachloride	1.5E-04	Surface Water	1.4E+01	1.5E-04	5.2E+00	4.2E+01	na	na	0.001
Chlorobenzene	1.0E-01	Surface Water	1.6E+03	1.0E-01	5.1E+02	4.9E+03	na	na	0.001
Chloroethane	na	na	na	na	na	na	na	na	0.001
2-Chloroethyl vinyl ether	na	na	na	na	na	na	na	na	0.005
Chloroform	5.2E-02	Surface Water	3.2E+01	5.2E-02	2.0E+01	9.4E+01	na	na	0.001
Chloromethane	na	na	na	na	na	na	na	na	0.001
3-Chloro-1-propene (allyl chloride)	3.3E+01	Sediment	4.8E+01	na	3.3E+01	1.4E+02	na	na	na
2-Chlorotoluene	4.1E+02	Sediment	1.6E+03	na	4.1E+02	4.9E+03	na	na	0.001
4-Chlorotoluene	4.2E+02	Sediment	1.6E+03	na	4.2E+02	4.9E+03	na	na	0.001
Dibromochloromethane	7.0E-04	Surface Water	1.2E+01	7.0E-04	9.2E+00	3.5E+01	na	na	0.001
1,2-Dibromo-3-chloropropane	1.0E-01	Sediment	2.3E-01	na	1.0E-01	7.1E-01	na	na	0.005
Dibromomethane	4.7E+02	Sediment	8.0E+02	na	4.7E+02	2.4E+03	na	na	0.001
Dichlorobromomethane	8.9E-04	Surface Water	1.6E+01	8.9E-04	1.2E+01	4.7E+01	na	na	0.001
trans-1,4-Dichloro-2-butene	na	na	na	na	na	na	na	na	0.005
Dichlorodifluoromethane	1.1E+04	Sediment	1.6E+04	na	1.1E+04	4.9E+04	na	na	0.001
1,1-Dichloroethane	1.1E+02	Sediment	1.8E+02	na	1.1E+02	5.1E+02	na	na	0.001
1,2-Dichloroethane (EDC)	2.4E-02	Surface Water	1.1E+01	2.4E-02	7.9E+00	3.2E+01	na	na	0.001

Table 10: Screening Level Evaluation - Soil

Chemical (all concentrations are in mg/kg)	Most Stringent Soil PCUL for Saturated Zone and Nonpotable Groundwater		Values from LDW PCUL Workbook (2024)						
	Value	Basis	Direct Contact MTCA Method B	Surface Water via Ground Water Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Groundwater Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Erosion Minimum ROD CUL + SMS Lower Tier Sed	Natural Background Ecology (1994)	Simplified TEE Industrial or Commercial Sites MTCA Table 749-2	Laboratory Reporting Limit
1,1-Dichloroethylene	1.4E+00	Surface Water	4.0E+03	1.4E+00	2.3E+03	1.2E+04	na	na	0.001
cis-1,2-Dichloroethylene	1.2E+02	Sediment	1.6E+02	na	1.2E+02	4.9E+02	na	na	0.001
trans-1,2-Dichloroethylene	3.2E-01	Surface Water	1.6E+03	3.2E-01	1.2E+03	4.9E+03	na	na	0.001
1,2-Dichloroethylene (mixed isomers)	na	na	na	na	na	na	na	na	na
1,2-Dichloropropane	1.0E-03	Surface Water	2.7E+01	1.0E-03	1.8E+01	7.9E+01	na	na	0.001
1,3-Dichloropropane	8.8E+02	Sediment	1.6E+03	na	8.8E+02	4.9E+03	na	na	0.001
2,2-Dichloropropane	na	na	na	na	na	na	na	na	0.001
1,1-Dichloropropene	na	na	na	na	na	na	na	na	0.001
cis-1,3-Dichloropropene	3.8E-04	Surface Water	1.0E+01	3.8E-04	8.2E+00	2.9E+01	na	na	0.001
trans-1,3-Dichloropropene	3.8E-04	Surface Water	1.0E+01	3.8E-04	8.2E+00	2.9E+01	na	na	0.001
Diisopropyl ether	na	na	na	na	na	na	na	na	na
Ethane	na	na	na	na	na	na	na	na	na
Ethylbenzene	1.0E-02	Surface Water	8.0E+03	1.0E-02	2.7E+03	2.4E+04	na	na	0.001
Ethylene oxide	6.0E-01	Direct Contact	6.0E-01	na	8.0E-01	1.8E+00	na	na	na
Ethyl ether	1.6E+04	Direct Contact	1.6E+04	na	1.8E+04	4.9E+04	na	na	na
Ethylene dibromide (EDB)	2.8E-01	Sediment	5.0E-01	na	2.8E-01	1.5E+00	na	na	0.001
Formaldehyde	4.8E+01	Direct Contact	4.8E+01	na	6.4E+01	1.4E+02	na	na	na
n-Hexane	8.3E+02	Sediment	4.8E+03	na	8.3E+02	1.5E+04	na	na	0.001
2-Hexanone	4.0E+02	Direct Contact	4.0E+02	na	5.9E+02	1.2E+03	na	na	0.005
Isopropylbenzene (cumene)	1.7E+03	Sediment	8.0E+03	na	1.7E+03	2.4E+04	na	na	0.001
4-Isopropyltoluene	na	na	na	na	na	na	na	na	0.001
Methane	na	na	na	na	na	na	na	na	na
Methyl ethyl ketone (2-butanone)	4.8E+04	Direct Contact	4.8E+04	na	6.2E+04	1.5E+05	na	na	0.005
Methyl iodide	na	na	na	na	na	na	na	na	0.001
Methyl isobutyl ketone	6.4E+03	Direct Contact	6.4E+03	na	6.9E+03	1.9E+04	na	na	0.005
Methyl tert-butyl ether (MTBE)	5.6E+02	Direct Contact	5.6E+02	na	6.0E+02	1.6E+03	na	na	0.001
Methylene chloride	3.0E-02	Surface Water	9.4E+01	3.0E-02	1.1E+02	2.9E+02	na	na	0.002
2-Pentanone	na	na	na	na	na	na	na	na	0.005
n-Propylbenzene	1.7E+03	Sediment	8.0E+03	na	1.7E+03	2.4E+04	na	na	0.001
Styrene	3.3E+03	Sediment	1.6E+04	na	3.3E+03	4.9E+04	na	na	0.001
1,1,1,2-Tetrachloroethane	1.9E+01	Sediment	3.8E+01	na	1.9E+01	1.1E+02	na	na	0.001
1,1,2,2-Tetrachloroethane	1.1E-04	Surface Water	5.0E+00	1.1E-04	2.5E+00	1.5E+01	na	na	0.001
Tetrachloroethylene (PCE)	1.6E-03	Surface Water	4.8E+02	1.6E-03	1.4E+02	1.4E+03	na	na	0.001
Tetrahydrofuran	7.2E+04	Direct Contact	7.2E+04	na	8.1E+04	2.2E+05	na	na	na

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	Value	Basis	Direct Contact MTCA Method B	Surface Water via Ground Water Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Groundwater Saturated Zone Leach MTCA Equation 747-1	Protect Sediment via Erosion Minimum ROD CUL + SMS Lower Tier Sed	Natural Background Ecology (1994)	Simplified TEE Industrial or Commercial Sites MTCA Table 749-2	Laboratory Reporting Limit
Toluene	4.4E-02	Surface Water	6.4E+03	4.4E-02	2.5E+03	1.9E+04	na	na	0.001
1,2,3-Trichlorobenzene	1.2E+01	Sediment	6.4E+01	na	1.2E+01	1.9E+02	na	na	0.005
1,1,1-Trichloroethane	2.1E+01	Surface Water	1.6E+05	2.1E+01	6.5E+04	4.9E+05	na	na	0.001
1,1,2-Trichloroethane	3.3E-04	Surface Water	1.8E+01	3.3E-04	9.1E+00	5.1E+01	na	na	0.001
Trichloroethylene (TCE)	2.7E-04	Surface Water	1.2E+01	2.7E-04	2.0E+00	1.2E+01	na	na	0.001
Trichlorofluoroethane	na	na	na	na	na	na	na	na	na
Trichlorofluoromethane	1.7E+04	Sediment	2.4E+04	na	1.7E+04	7.3E+04	na	na	0.001
1,2,3-Trichloropropane	2.7E-03	Sediment	6.3E-03	na	2.7E-03	1.9E-02	na	na	0.002
Trichlorotrifluoroethane	8.1E+05	Sediment	2.4E+06	na	8.1E+05	7.3E+06	na	na	na
1,2,3-Trimethylbenzene	1.8E+02	Sediment	8.0E+02	na	1.8E+02	2.4E+03	na	na	na
1,2,4-Trimethylbenzene	1.8E+02	Sediment	8.0E+02	na	1.8E+02	2.4E+03	na	na	0.001
1,3,5-Trimethylbenzene	1.8E+02	Sediment	8.0E+02	na	1.8E+02	2.4E+03	na	na	0.001
Vinyl acetate	8.0E+04	Direct Contact	8.0E+04	na	1.0E+05	2.4E+05	na	na	0.005
Vinyl chloride	5.6E-05	Surface Water	6.7E-01	5.6E-05	5.9E-01	1.9E+00	na	na	0.001
Total xylenes	5.5E-02	Surface Water	1.6E+04	5.5E-02	5.0E+03	4.9E+04	na	na	0.002
Per- and Polyfluoroalkyl Substances (PFAS)									
GenX (HFPO-DA)	2.4E-01	Direct Contact	2.4E-01	na	na	na	na	na	na
Perfluorobutanoic acid (PFBA)	8.0E+01	Direct Contact	8.0E+01	na	na	na	na	na	na
Perfluorobutanesulfonic acid (PFBS)	2.0E+01	Direct Contact	2.4E+01	4.4E+01	na	na	na	na	na
Perfluorohexanoic acid (PFHxA)	4.0E+01	Direct Contact	4.0E+01	na	na	na	na	na	na
Perfluorohexanesulfonic acid (PFHxS)	3.5E-02	TEE*	7.8E-01	na	na	na	na	3.5E-02	na
Perfluorononanoic acid (PFNA)	5.5E-03	Surface Water	2.0E-01	5.5E-03	na	na	na	na	na
Perfluorooctanesulfonic acid (PFOS)	7.2E-04	Surface Water	8.0E-03	7.2E-04	na	na	na	na	na
Perfluorooctanoic acid (PFOA)	3.4E-05	Direct Contact	3.4E-05	4.8E-02	na	na	na	na	na
Petroleum Hydrocarbons									
Gasoline range hydrocarbons, fresh	3.0E+01	Surface Water	1.5E+03	3.0E+01	na	na	na	1.2E+04	na
Gasoline range hydrocarbons, weathered	1.0E+02	Surface Water	1.5E+03	1.0E+02	na	na	na	1.2E+04	na
Diesel range hydrocarbons, fresh	2.0E+03	Surface Water	na	2.0E+03	na	na	na	1.5E+04	na
Diesel range hydrocarbons, weathered	2.0E+03	Surface Water	na	2.0E+03	na	na	na	1.5E+04	na
Oil range hydrocarbons	2.0E+03	Surface Water	na	2.0E+03	na	na	na	na	na
Total diesel & oil range hydrocarbons	2.0E+03	Surface Water	na	2.0E+03	na	na	na	na	na

NOTES:

* Simplified TEE unavailable; Site Specific TEE value from LDW PCUL Workbook (2024).

CUL = cleanup level; Ecology = Washington State Department of Ecology; LDW = Lower Duwamish Waterway; mg/kg = milligrams per kilogram; MTCA = Model Toxics Control Act; na = not available; PCUL = preliminary cleanup level; ROD = record of decision; SMS = sediment management standards; TEE = Terrestrial Ecological Evaluation; TEQ = toxic equivalent concentration

Table 11: LIF Calibration Soil Sample Results

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Petroleum Hydrocarbons (mg/kg) NWTPH-Gx	NWTPH-Dx		
				Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Residual Range Organics
				100	2000	2000	2000
A1-02A	A1-02A:5-11032020	11/03/2020	5.0	—	**2260 J***	**7650 J***	**9910 J***
	A1-100:5-11032020 (DUP)	11/03/2020	5.0	—	387 J*	1730 J*	**2117 J***
	A1-02A:10-11032020	11/03/2020	10.0	—	**3310**	**12900**	**16210**
	A1-02A:12.8-11032020	11/03/2020	12.8	—	**44800**	**155000**	**199800**
	A1-02A:18-11032020	11/03/2020	18.0	—	**20400**	**77600**	**98000**
	A1-02A:25-11032020	11/03/2020	25.0	—	99.2	436	535.2
A2-07A	A2-07A:12-11052020	11/05/2020	12.0	**876**	**10700**	**4030**	**14730**
	A2-07A:13.5-11052020	11/05/2020	13.5	68.3	796	335	1131
	A2-07A:18-11052020	11/05/2020	18.0	61.7	<26.5	<27.4	ND
	A2-07A:25-11052020	11/05/2020	25.0	<3.25	<24.3	<25.1	ND
A2-16A	A2-16A:9.5-11062020	11/06/2020	9.5	71.0	**3400**	**7430**	**10830**
	A2-16A:12.5-11062020	11/06/2020	12.5	39.9	**3230**	**10800**	**14030**
	A2-16A:18-11062020	11/06/2020	18.0	<3.79	11.5	29.6	41.1

NOTES:
Results reported from Analytical Resources, LLC.
Screening levels presented in column header below compound name.
Borings A1-02A, A2-07A, and A2-16A completed adjacent to LIF borings A1-02, A2-07, and A2-16, respectively.
Samples collected to support interpretation of LIF readings.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
bgs = below ground surface; DUP = field duplicate; LIF = laser-induced fluorescence; NWTPH-Gx =Northwest Total Petroleum Hydrocarbons-Gasoline Extended; NWTPH-Dx = Northwest Total Petroleum Hydrocarbons-Diesel Extended; mg/kg = milligrams per kilogram

Table 12A: Petroleum Hydrocarbons and BTEX in Soil

				Petroleum Hydrocarbons (mg/kg)				BTEX (mg/kg) SW8260D					
				NWTPH-GX	NWTPH-DX								
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Residual Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes
				100	2000	2000	2000	0.00056 (0.001)	0.044	0.010	NA	NA	0.055
SB-2020-001	SB-2020-001:2.2-11032020	11/03/2020	2.2	—	<23.3	<24.1	ND	—	—	—	—	—	—
	SB-2020-001:6.8-11032020	11/03/2020	6.8	—	<23.3	<22.6	ND	—	—	—	—	—	—
SB-2021-002	SB-2021-002:3-01282021	01/28/2021	3.0	—	21.4	33.9	55.3	—	—	—	—	—	—
	SB-2021-002:6-01282021	01/28/2021	6.0	—	<2.63	<3.36	ND	—	—	—	—	—	—
	SB-2021-105:6-01282021 (DUP)	01/28/2021	6.0	—	<2.47	<3.16	ND	—	—	—	—	—	—
SB-2021-003	SB-2021-003:2-01262020	01/26/2021	2.0	—	26.7	152	178.7	**0.000620 J**	<0.000220	<0.000300	<0.000570	<0.000330	<0.000900
	SB-2021-003:10.3-01262020	01/26/2021	10.3	—	<3.17	14.0	14.0	**0.00105 J**	<0.00152 B*	<0.000310	<0.000600	<0.000340	<0.000940
	SB-2021-003:11.5-01262020	01/26/2021	11.5	—	<3.23	<4.12	ND	**0.000660 J**	<0.000190	<0.000250	<0.000490	<0.000280	<0.000760
SB-2020-004	SB-2020-004:2.5-11062020	11/06/2020	2.5	—	15.0	44.4	59.4	0.000510 J	0.000620 J	<0.000320	<0.000630	<0.000360	<0.000990
	SB-2020-004:8-11062020	11/06/2020	8.0	—	**4260**	**5210**	**9470**	<0.000470	0.000360 J	<0.000320	<0.000620	<0.000350	<0.000970
	SB-2020-004:13-11062020	11/06/2020	13.0	—	<3.11	<3.97	ND	**0.000730 J**	0.000910 J	<0.000320	<0.000610	<0.000350	<0.000960
	SB-2020-004:17-11062020	11/06/2020	17.0	—	<2.85	<3.64	ND	<0.000360	0.000250 J	<0.000250	<0.000480	<0.000270	<0.000750
	SB-2020-101:17-11062020 (DUP)	11/06/2020	17.0	—	<2.85	<3.65	ND	<0.000370	0.000240 J	<0.000250	<0.000490	<0.000280	<0.000760
	SB-2020-004:21-11062020	11/06/2020	21.0	—	7.56	11.8	19.36	<0.000560	0.000370 J	<0.000380	<0.000740	<0.000420	<0.00116
	SB-2020-004:27-11062020	11/06/2020	27.0	—	<2.81	<3.59	ND	<0.000440	<0.000230	<0.000300	<0.000590	<0.000340	<0.000920
SB-2020-005	SB-2020-005:1-11042020	11/04/2020	1.0	—	<25.3	<26.1	ND	**0.000580 J**	<0.00155 B*	<0.000310	<0.000610	<0.000350	<0.000960
	SB-2020-005:6-11042020	11/04/2020	6.0	—	<30.9	<31.9	ND	**0.000630 J**	<0.00171 B*	<0.000350	<0.000670	<0.000380	<0.00105
	SB-2020-005:12-11042020	11/04/2020	12.0	—	<28.5	<29.4	ND	**0.000840 J**	<0.00145 B*	<0.000290	<0.000570	<0.000330	<0.000890
SB-2021-006	SB-2021-006:1.5-01292021	01/29/2021	1.5	—	<2.55	16.4	16.4	—	—	—	—	—	—
	SB-2021-006:6-01292021	01/29/2021	6.0	—	<2.43	<3.11	ND	—	—	—	—	—	—
	SB-2021-006:10-01292021	01/28/2021	10.0	**3480**	**23400 JL***	328 JL*	**23728 JL***	—	—	—	—	—	—
	SB-2021-006:20-01292021	01/29/2021	20.0	<4.05	<2.94	<3.76	ND	—	—	—	—	—	—
SB-2020-007	SB-2020-007:1.2-2.8-11042020	11/04/2020	1.2-2.8	—	<25.1	<25.9	ND	—	—	—	—	—	—
	SB-2020-007:6-7-11042020	11/04/2020	6.0-7.0	—	<28	<28.9	ND	—	—	—	—	—	—
	SB-2020-007:10-10.9-11042020	11/04/2020	10.0-10.9	—	<29.5	<30.4	ND	—	—	—	—	—	—

Table 12A: Petroleum Hydrocarbons and BTEX in Soil

				Petroleum Hydrocarbons (mg/kg)				BTEX (mg/kg)					
				NWTPH-GX	NWTPH-DX			SW8260D					
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Residual Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes
				100	2000	2000	2000	0.00056 (0.001)	0.044	0.010	NA	NA	0.055
SB-2020-008	SB-2020-008:2-11052020	11/05/2020	2.0	—	<23	<23.7	ND	**0.00103 J**	<0.00103 B*	<0.000210	<0.000410	<0.000230	<0.000640
	SB-2020-008:5.5-11052020	11/05/2020	5.5	—	<24.6	<25.4	ND	**0.000690 J**	<0.00106 B*	<0.000210	<0.000420	<0.000240	<0.000650
	SB-2020-008:11.5-11052020	11/05/2020	11.5	—	<25	<25.8	ND	<0.000390	<0.000200	<0.000260	<0.000510	<0.000290	<0.000800
SB-2021-009	SB-2021-009:2-01252021	01/25/2021	2.0	<3.32	<2.62	<3.35	ND	<0.000420	<0.000210	<0.000290	<0.000560	<0.000320	<0.000880
	SB-2021-009:6-01252021	01/25/2021	6.0	<3.66	<2.53	<3.24	ND	<0.000390	<0.000200	<0.000260	<0.000510	<0.000290	<0.000800
	SB-2021-009:10.8-01252021	01/25/2021	10.8	<3.9	<2.92	<3.73	ND	**0.000670 J**	<0.000210	<0.000280	<0.000550	<0.000310	<0.000860
SB-2021-010	SB-2021-010:1.5-01282021	01/28/2021	1.5	—	<2.46	11.1	11.1	—	—	—	—	—	—
	SB-2021-010:6-01282021	01/28/2021	6.0	—	<2.59	17.4	17.4	—	—	—	—	—	—
	SB-2021-104:6-01282021 (DUP)	01/28/2021	6.0	—	<2.6	13.7	13.7	—	—	—	—	—	—
	SB-2021-010:11-01282021	01/28/2021	11.0	—	<2.91	<3.71	ND	—	—	—	—	—	—
SB-2021-011	SB-2021-011:1-01252021	01/25/2021	1.0	—	364 D	1060 E	1424 DE	—	—	—	—	—	—
	SB-2021-101:1-01252021 (DUP)	01/25/2021	1.0	—	455 D	1220 D	1675 D	—	—	—	—	—	—
	SB-2021-011:3-01252021	01/25/2021	3.0	—	199	365	564	—	—	—	—	—	—
	SB-2021-011:10-01252021	01/25/2021	10.0	—	8.94	33.3	42.24	—	—	—	—	—	—
SB-2021-012	SB-2021-012:2-01252021	01/25/2021	2.0	—	19.4	14.6	34	—	—	—	—	—	—
	SB-2021-012:3.4-01252021	01/25/2021	3.4	—	29.7	198	227.7	—	—	—	—	—	—
	SB-2021-012:10.4-01252021	01/25/2021	10.4	—	<3.09	13.6	13.6	—	—	—	—	—	—
SB-2020-013	SB-2020-013:1.5-11052020	11/05/2020	1.5	—	<2.46	14.0	14.0	—	—	—	—	—	—
	SB-2020-013:6-11052020	11/05/2020	6.0	—	<2.63	14.4	14.4	—	—	—	—	—	—
	SB-2020-013:11.5-11052020	11/05/2020	11.5	—	9.93	24.1	34.03	—	—	—	—	—	—
SB-2020-014	SB-2020-014:1.5-11052020	11/05/2020	1.5	<4.12	<25.5	<26.4	ND	<0.000430	<0.000220	<0.000290	<0.000560	<0.000320	<0.000890
	SB-2020-014:7-11052020	11/05/2020	7.0	<3.14	<21.9	<22.6	ND	**0.000800 J**	0.00527	0.000240 J	0.00589	0.00144	0.00733
	SB-2020-014:11-11052020	11/05/2020	11.0	**118 J***	30.2 J	31.2 J*	61.4 J	**0.00166**	0.00330 J*	0.00386 J*	0.0203 J*	0.00165 J*	0.0219 J*
	SB-2020-100:11-11052020 (DUP)	11/05/2020	11.0	**713 J***	190 J*	600 J*	792 J*	**0.00107**	0.00194 J*	0.00140 J*	0.00892 J*	0.000670 J*	0.00958 J*

Table 12A: Petroleum Hydrocarbons and BTEX in Soil

				Petroleum Hydrocarbons (mg/kg)				BTEX (mg/kg)					
				NWTPH-GX	NWTPH-DX			SW8260D					
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Residual Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes
				100	2000	2000	2000	0.00056 (0.001)	0.044	0.010	NA	NA	0.055
SB-2020-015	SB-2020-015:1-11042020	11/04/2020	1.0	<3.29	<22.3	<23.0	ND	<0.000400	<0.000200	<0.000270	<0.000520	<0.000300	<0.000820
	SB-2020-015:7-11042020	11/04/2020	7.0	<3.16	<21.4	<22.1	ND	<0.000370	<0.000190	<0.000250	<0.000490	<0.000280	<0.000780
	SB-2020-015:13-11042020	11/04/2020	13.0	<4.6	<28	<28.9	ND	**0.00109 J**	<0.00146 B*	0.00153	0.00439	0.00108 J	0.00547
	SB-2020-015:20.5-11042020	11/04/2020	20.5	—	<24.3	<25.1	ND	—	—	—	—	—	—
SB-2020-016	SB-2020-016:2-11042020	11/04/2020	2.0	<3.14	<22.3	<23.0	ND	<0.000360	<0.000180	<0.000240	<0.000470	<0.000270	<0.000750
	SB-2020-016:7-11042020	11/04/2020	7.0	<3.5	<21.7	<22.4	ND	<0.000380	<0.00129 B*	<0.000260	<0.000510	<0.000290	<0.000800
	SB-2020-016:12-11042020	11/04/2020	12.0	<5.39	<28.4	<29.4	ND	**0.000780 J**	<0.00170 B*	<0.000340	<0.000660	<0.000380	<0.00104
SB-2021-017	SB-2021-017:2-01252021	01/25/2021	2.0	<4.14	8.72	<3.51	8.72	<0.000480	<0.000240	<0.000330	<0.000640	<0.000360	<0.00100
	SB-2021-017:5-01252021	01/25/2021	5.0	<3.17	<2.6	<3.32	ND	<0.000430	<0.000220	<0.000290	<0.000570	<0.000320	<0.000890
	SB-2021-017:10.5-01252021	01/25/2021	10.5	<3.95	6.39	<3.72	6.39	<0.000320	<0.000160	<0.000220	<0.000420	<0.000240	<0.000660
SB-2021-027	SB-2021-027:2.2-01282021	01/28/2021	2..2	—	19.9	51.1	71	—	—	—	—	—	—
	SB-2021-027:5.3-01282021	01/28/2021	5.3	—	9.23	23.2	32.43	—	—	—	—	—	—
	SB-2021-027:10-01282021	01/28/2021	10.0	—	7.47	19.2	26.67	—	—	—	—	—	—
SB-2020-028	SB-2020-028:2.3-11032020	11/03/2020	2.3	—	<24.2	<24.9	ND	—	—	—	—	—	—
	SB-2020-028:6.8-11032020	11/03/2020	6.8	—	<22.1	<22.8	ND	—	—	—	—	—	—
SB-2020-029	SB-2020-029:3.2-11032020	11/03/2020	3.2	<3.35	<27.9	203	203	—	—	—	—	—	—
	SB-2020-029:7.5-11032020	11/03/2020	7.5	<3.06	<22.3	<23.0	ND	—	—	—	—	—	—
SB-2021-033	SB-2021-033:11-01262021	01/26/2021	11.0	**1420**	8.80	<3.9	8.80	**<0.0140**	<0.0147	**<0.0233**	<0.0477	<0.0195	**<0.0662**
	SB-2021-033:15-01262021	01/26/2021	15.0	22.6	<3.01	40.0	40.0	<0.000410	<0.00137 B*	<0.00137 B*	0.000950 J	<0.000310	—
	SB-2021-033:18-01262021	01/26/2021	18.0	<3.65	<2.99	<3.82	ND	<0.000370	<0.000190	<0.000250	<0.000490	<0.000280	—
SB-2021-034	SB-2021-034:10.7-01252021	01/25/2021	10.7	**179 J***	9.14	15.8 J*	24.94 J*	**0.000830 J***	0.000740 J*	<0.000270	0.000610 J*	<0.000300	<0.000820
	SB-2021-102:10.7-01252021 (DUP)	01/25/2021	10.7	83.8 J*	8.88	3.88 J*	12.76 J*	**0.00145 J***	0.00139 J*	0.000620 J	0.00167 J*	0.000440 J	0.00212 J
	SB-2021-034:15-01252021	01/25/2021	15.0	29.8	67.1 D	571 D	638.1 D	<0.000280	<0.000140	0.00226	0.00171 J	0.000650 J	—
	SB-2021-034:21-01252021	01/25/2021	21.0	<3.34	<2.71	<3.47	ND	<0.000370	<0.000190	<0.000260	<0.000500	<0.000280	—
SB-2021-035	SB-2021-035:11-01262021	01/26/2021	11.0	<4.63	<3.14	<4.01	ND	**0.00100 J**	<0.000210	<0.000290	<0.000550	<0.000320	—
	SB-2021-035:13.8-01262021	01/26/2021	13.8	<3.96	<3.04	<3.88	ND	**0.000840 J**	<0.00133 B*	<0.000270	<0.000520	<0.000300	—
SB-2021-038	SB-2021-038:2-01262021	01/26/2021	2.0	—	7.37	25.0	32.37	—	—	—	—	—	—
	SB-2021-038:6.9-01262021	01/26/2021	6.9	—	<2.88	<3.68	ND	—	—	—	—	—	—
	SB-2021-038:7.6-01262021	01/26/2021	7.6	—	<2.92	15.3	15.3	—	—	—	—	—	—
SB-2021-039	SB-2021-039:2-01252021	01/25/2021	2.0	<15.2	<2.58	16.6	16.6	**<0.00114**	<0.000580	<0.000780	<0.00151	<0.000860	<0.00237
	SB-2021-039:7.4-01252021	01/25/2021	7.4	<4.66	11.6	66.6	78.2	<0.000410	<0.000210	<0.000280	<0.000540	<0.000310	<0.000850
	SB-2021-039:10.7-01252021	01/25/2021	10.7	<4.99	<3.29	32.3	32.3	**0.000910 J**	0.000500 J	<0.000290	<0.000570	<0.000320	<0.000890

Table 12A: Petroleum Hydrocarbons and BTEX in Soil

				Petroleum Hydrocarbons (mg/kg)				BTEX (mg/kg)					
				NWTPH-GX	NWTPH-DX			SW8260D					
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Residual Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes
				100	2000	2000	2000	0.00056 (0.001)	0.044	0.010	NA	NA	0.055
SB-2021-040	SB-2021-040:2-01282021	01/28/2021	2.0	—	<2.47	14.6	14.6	—	—	—	—	—	—
	SB-2021-040:5-01282021	01/28/2021	5.0	—	9.61	21.4	31.01	—	—	—	—	—	—
	SB-2021-040:10.4-01282021	01/28/2021	10.4	—	14.6	41.8	56.4	—	—	—	—	—	—
SB-2021-041	SB-2021-041:2-01282021	01/28/2021	2.0	<3.91	<2.52	<3.22	ND	0.000500 J	<0.000200	<0.000270	<0.000520	<0.000300	<0.000820
	SB-2021-106:2-01282021 (DUP)	01/28/2021	2.0	<3.5	<2.05	<3.19	ND	<0.000460	<0.000240	<0.000320	<0.000620	<0.000350	<0.000970
	SB-2021-041:6-01282021	01/28/2021	6.0	<2.97	<2.5	<3.2	ND	<0.000190	<0.000100	<0.000130	<0.000260	<0.000150	<0.000400
	SB-2021-041:10.5-01282021	01/28/2021	10.5	<5.48	8.81	81.2	90.01	**0.000980 J**	<0.00141 B*	<0.000280	<0.000550	<0.000320	<0.000870
	SB-2021-041:13.3-01282021	01/28/2021	13.3	<4.52	—	—	—	**0.000830 J**	<0.000220	<0.000300	<0.000580	<0.000330	<0.000910
	SB-2021-041:19-01282021	01/28/2021	19.0	<4.56	—	—	—	<0.000380	<0.000200	<0.000260	<0.000510	<0.000290	<0.000800
	SB-2021-041:23-01282021	01/28/2021	23.0	<4	—	—	—	<0.000370	<0.000190	<0.000250	<0.000490	<0.000280	<0.000760
SB-2021-042	SB-2021-042:11-01292021	01/29/2021	11.0	—	6.35 J*	14.9	21.25 J*	—	—	—	—	—	—
	SB-2021-106:11-01292021 (DUP)	01/29/2021	11.0	—	<2.87	14.9	14.9	—	—	—	—	—	—
SB-2021-043	SB-2021-043:9.5-01292021	01/29/2021	9.5	—	<2.86	12.6	12.6	—	—	—	—	—	—
SB-2021-044	SB-2021-044:12-02052021	02/05/2021	12.0	—	<2.95	14.8	14.8	—	—	—	—	—	—
SB-2020-045	SB-2020-045:2.8-11032020	11/03/2020	2.8	<3.40	<23.8	<24.5	ND	<0.000420	0.000350 JH*	<0.000290	<0.000560	<0.000320	<0.000880
	SB-2020-045:7.2-11032020	11/03/2020	7.2	<3.44	<21.9	<22.6	ND	<0.000340	0.000260 JH*	<0.000240	<0.000460	<0.000260	<0.000720
SB-2021-046	SB-2021-046:2-01262021	01/26/2021	2.0	—	<2.6	<3.33	ND	—	—	—	—	—	—
	SB-2021-046:5.6-01262021	01/26/2021	5.6	—	31.5	210	241.5	—	—	—	—	—	—
	SB-2021-046:10.7-01262021	01/26/2021	10.7	—	26.1	105	131.1	—	—	—	—	—	—

Table 12A: Petroleum Hydrocarbons and BTEX in Soil

				Petroleum Hydrocarbons (mg/kg)				BTEX (mg/kg) SW8260D					
				NWTPH-GX	NWTPH-DX								
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Gasoline Range Organics 100	Diesel Range Organics 2000	Residual Range Organics 2000	Total Diesel and Residual Range Organics 2000	Benzene 0.00056 (0.001)	Toluene 0.044	Ethylbenzene 0.010	m,p-Xylene NA	o-Xylene NA	Total Xylenes 0.055
SB-2021-047	SB-2021-047:1.5-02022021	02/02/2021	1.5	<3.03	<2.49	<3.18	ND	<0.000300	<0.000150	<0.000200	<0.000390	<0.000220	—
	SB-2021-047:7.1-02022021	02/02/2021	7.1	<3.98	14.9	36.9	51.8	0.000540 J	<0.00123 B*	<0.000250	<0.000480	<0.000280	—
SB-2021-065	SB-2021-065:13-02022021	02/02/2021	13.0	—	162 D	1450 D	1612 D	0.000490 J	<0.000170	<0.000220	<0.000430	<0.000250	<0.000680
SB-2021-068	SB-2021-068:1.0-01262021	01/26/2021	1.0	—	**3680**	**4800**	**8480**	**0.000810 J**	<0.000870 B*	<0.000180	<0.000340	<0.000200	<0.000540
	SB-2021-068:5.5-01262021	01/26/2021	5.5	—	**1640**	**2450**	**4090**	0.000510 J	<0.00119 B*	<0.000240	0.000760 J	0.000470 J	0.00124 J
MW-10R	MW-10R:2-02052021	02/05/2021	2.0	—	<2.84	17.3	17.3	**0.000790 J**	0.000290 J	<0.000250	<0.000490	<0.000280	<0.000770
	MW-10R:5.4-02052021	02/05/2021	5.4	—	<2.71	22.6	22.6	**0.000620 J**	0.000240 J	<0.000300	<0.000590	<0.000340	<0.000920
	MW-10R:9-02052021	02/05/2021	9.0	—	<3.41	29.0	29.0	**0.00108 J***	<0.000270	<0.000370	<0.000710	<0.000410	<0.00112
	MW-104:9-02052021 (DUP)	02/05/2021	9.0	—	<3.28	19.2	19.2	**0.00184 J***	<0.000250	<0.000330	<0.000650	<0.000370	<0.00102
MW-22R	MW-22R:1.0-02032021	02/03/2021	1.0	—	29.5 D	282 D	311.5 D	—	—	—	—	—	—
	MW-22R:5.5-02032021	02/03/2021	5.5	—	49.6 JH*	246 JH*	295.6 JH*	—	—	—	—	—	—
	MW-22R:9.0-02032021	02/03/2021	9.0	—	89.5	275	364.5	—	—	—	—	—	—
	MW-22R:15.5-02032021	02/03/2021	15.5	—	1090 D	**3250 D**	**4340 D**	—	—	—	—	—	—
	MW-22R:20.5-02032021	02/03/2021	20.5	—	330 D	977 D	1307 D	—	—	—	—	—	—
MW-53	MW-53:1-02032021	02/03/2021	1.0	—	11.6	33.1	44.7	0.000480 J	0.000400 J	<0.000250	<0.000480	<0.000270	<0.000750
	MW-53:9.5-02032021	02/03/2021	9.5	—	18.7	48.8	67.5	—	—	—	—	—	—
	MW-53:11-02032021	02/03/2021	11.0	—	11.8	26.7	38.5	—	—	—	—	—	—
MW-54	MW-54:1-02032021	02/03/2021	1.0	—	<2.61	31.2	31.2	**0.00131 J**	0.000600 J	<0.000300	<0.000580	<0.000330	<0.000910
	MW-54:5.5-02032021	02/03/2021	5.5	—	63.5	665	728.5	<0.000620	<0.000310	<0.000420	<0.000820	<0.000470	<0.00128
	MW-102:5.5-02032021 (DUP)	02/03/2021	5.5	—	42.2	384	426.2	<0.000450	<0.000230	<0.000300	<0.000590	<0.000340	<0.000930
	MW-54:9-02032021	02/03/2021	9.0	—	<2.88	12.5	12.5	<0.000350	<0.000180	<0.000240	<0.000470	<0.000270	<0.000740
MW-55	MW-55:1.5-02032021	02/03/2021	1.5	—	7.93	41.1	49.03	—	—	—	—	—	—
	MW-55:5.5-02032021	02/03/2021	5.5	—	18.1	48.6	66.7	—	—	—	—	—	—
	MW-55:9.5-02032021	02/03/2021	9.5	—	19.9	38.7	58.6	—	—	—	—	—	—

Table 12A: Petroleum Hydrocarbons and BTEX in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Petroleum Hydrocarbons (mg/kg) NWTPH-GX Gasoline Range Organics 100	NWTPH-DX Diesel Range Organics 2000	NWTPH-DX Residual Range Organics 2000	Total Diesel and Residual Range Organics 2000	BTEX (mg/kg) SW8260D Benzene 0.00056 (0.001)	Toluene 0.044	Ethylbenzene 0.010	m,p-Xylene NA	o-Xylene NA	Total Xylenes 0.055
MW-56	MW-56:1.0-02022021	02/02/2021	1.0	—	<2.56	15.6	15.6	—	—	—	—	—	—
	MW-56:5.5-02022021	02/02/2021	5.5	—	53.6	168	221.6	—	—	—	—	—	—
	MW-56:8.0-02022021	02/02/2021	8.0	—	<3.13	50.1 J*	50.1 J*	—	—	—	—	—	—
	MW-101:8.0-02022021 (DUP)	02/02/2021	8.0	—	<3.34	111 J*	111 J*	—	—	—	—	—	—
MW-57	MW-57:5-01272021	01/27/2021	5.0	—	**4420**	1460	**5880**	—	—	—	—	—	—
	MW-57:6-01272021	01/27/2021	6.0	—	8.20	12.9	21.1	—	—	—	—	—	—
	MW-57:10-01272021	01/27/2021	10.0	—	23.7	34.0	57.7	—	—	—	—	—	—
MW-58	MW-58:1.5-01272021	01/27/2021	1.5	—	9.54	24.6	34.14	<0.000410	<0.000210	<0.000280	<0.000540	<0.000310	<0.000840
	MW-58:5.5-01272021	01/27/2021	5.5	—	<2.53	<3.23	ND	<0.000430	<0.000220	<0.000290	<0.000570	<0.000320	<0.000890
	MW-58:8.4-01272021	01/27/2021	8.4	—	99.6	95.8	195.4	**0.921 JH***	**5.01**	**4.51**	10.5	1.77	**12.2**
MW-59	MW-59:1.0-02032021	02/03/2021	1.0	—	46.1	96.3	142.4	—	—	—	—	—	—
	MW-59:6.5-02032021	02/03/2021	6.5	—	<2.59	15.9	15.9	—	—	—	—	—	—
	MW-59:9.5-02032021	02/03/2021	9.5	—	<3.05	15.7	15.7	—	—	—	—	—	—
MW-60	MW-60:1.5-02012021	02/01/2021	1.5	<3.86	19.9	173	192.9	<0.000440	<0.00147 B*	<0.000300	<0.000580	<0.000330	<0.000910
	MW-60:5-02012021	02/01/2021	5.0	<4.89	12.1	51.9	64	<0.000450	<0.000230	<0.000310	<0.000590	<0.000340	<0.000930
	MW-60:9-02012021	02/01/2021	9.0	<3.31	7.37	21.4	28.77	**0.00101 J**	<0.00143 B*	<0.000290	<0.000560	<0.000320	<0.000880
MW-61	MW-61:1.5-02012021	02/01/2021	1.5	<3.88	26.7	215	241.7	—	—	—	—	—	—
	MW-61:6-02012021	02/01/2021	6.0	<3.02	<2.43	28.6	28.6	—	—	—	—	—	—
	MW-61:11-02012021	02/01/2021	11.0	<4.25	<3.15	19.3	19.3	—	—	—	—	—	—
MW-62	MW-62:1-01272021	01/27/2021	1.0	—	29.3	39.3	68.6	—	—	—	—	—	—
	MW-62:5-01272021	01/27/2021	5.0	—	<2.51	<3.21	ND	—	—	—	—	—	—
	MW-62:8.6-01272021	01/27/2021	8.6	—	8.56	36.3	44.86	—	—	—	—	—	—
MW-64	MW-64:5.2-01282021	01/28/2021	5.2	—	<2.61	22.5	22.5	—	—	—	—	—	—
	MW-64:9.0-01282021	01/28/2021	9.0	—	<2.71	<3.46	ND	—	—	—	—	—	—
	MW-64:14.0-01282021	01/28/2021	14.0	—	<3.01	<3.85	ND	—	—	—	—	—	—

Table 12A: Petroleum Hydrocarbons and BTEX in Soil

				Petroleum Hydrocarbons (mg/kg)				BTEX (mg/kg) SW8260D					
				NWTPH-GX	NWTPH-DX								
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Residual Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes
				100	2000	2000	2000	0.00056 (0.001)	0.044	0.010	NA	NA	0.055
MW-65	MW-65:20-02052021	02/05/2021	20.0	—	7.04	25.3	32.34	**0.000570 J**	<0.000220	<0.000300	<0.000580	<0.000330	<0.000900
MW-66	MW-66:1.2-0112521	01/25/2021	1.2	—	9.50	32.7	42.2	**0.000690 J**	0.000520 J	<0.000260	<0.000510	<0.000290	<0.000800
	MW-66:5.5-0112521	01/25/2021	5.5	—	<2.55	<3.26	ND	<0.000300	<0.000150	<0.000210	<0.000400	<0.000230	<0.000630
	MW-66:10.0-0112521	01/25/2021	10.0	—	12.2	48.4	60.6	<0.000390	<0.000200	<0.000270	<0.000520	<0.000300	<0.000810
MW-67	MW-67:0.5-01262021	01/26/2021	0.5	—	**336**	1730	**2066**	—	—	—	—	—	—
	MW-67:5.5-01262021	01/26/2021	5.5	—	49.2	230	279.2	—	—	—	—	—	—
	MW-67:9.0-01262021	01/26/2021	9.0	—	<3.27	26.5	26.5	—	—	—	—	—	—
MW-68	MW-68:8.5-02022021	02/02/2021	8.5	—	14.0	43.4	57.4	**0.000950 J**	<0.000990 B*	<0.000200	<0.000390	<0.000220	<0.000610
MW-70	MW-70:0-02022021	02/02/2021	0.0	<3.65	15.1	41.7	56.8	0.000390 J	<0.00122 B*	<0.000250	<0.000480	<0.000270	<0.000750
	MW-70:4.3-02022021	02/02/2021	4.3	<3.79	243 D	673 D	916 D	**0.000720 J**	<0.000190	<0.000250	<0.000490	<0.000280	<0.000770
	MW-70:8-02022021	02/02/2021	8.0	<4.05	22.3	77.1	99.4	**0.00102 J**	<0.00159 B*	<0.000320	<0.000620	<0.000360	<0.000980
	MW-70:35-02032021	02/03/2021	35.0	—	—	—	—	<0.000410	<0.000210	<0.000280	<0.000540	<0.000310	<0.000850
	MW-70:45-02032021	02/03/2021	45.0	—	—	—	—	<0.000440	<0.000230	<0.000300	<0.000590	<0.000330	<0.000920
	MW-70:55-02032021	02/03/2021	55.0	—	—	—	—	<0.000380	<0.000190	<0.000260	<0.000500	<0.000290	<0.000780
MW-71	MW-71:1.5-02042021	02/04/2021	1.5	—	10.1	65.5	75.6	0.000420 J	0.000220 J	<0.000140	<0.000270	<0.000160	<0.000430
	MW-71:5.0-02042021	02/04/2021	5.0	—	<2.95	<3.76	ND	0.000270 J	<0.000110	<0.000150	<0.000280	<0.000160	<0.000450
	MW-71:8.5-02042021	02/04/2021	8.5	—	<3.16	21.8	21.8	0.000360 J	0.000160 J	<0.000150	<0.000290	<0.000160	<0.000450
	MW-71:15.5-02042021	02/04/2021	15.5	—	—	—	—	0.000370 J	0.000140 J	<0.000130	<0.000260	<0.000150	<0.000410
	MW-71:20.5-02042021	02/04/2021	20.5	—	—	—	—	0.000550 JL*	<0.000100	<0.000130	<0.000250	<0.000140	<0.000390
MW-72	MW-72:1-022022021	02/02/2021	1.0	—	<2.73	11.7	11.7	—	—	—	—	—	—
	MW-72:5-022022021	02/02/2021	5.0	—	5.71	11.9	17.61	—	—	—	—	—	—
	MW-72:10.9-022022021	02/02/2021	10.9	—	6.43	41.0	47.43	—	—	—	—	—	—

Table 12A: Petroleum Hydrocarbons and BTEX in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Petroleum Hydrocarbons (mg/kg) NWTPH-GX Gasoline Range Organics 100	NWTPH-DX Diesel Range Organics 2000	NWTPH-DX Residual Range Organics 2000	Total Diesel and Residual Range Organics 2000	BTEX (mg/kg) SW8260D Benzene 0.00056 (0.001)	Toluene 0.044	Ethylbenzene 0.010	m,p-Xylene NA	o-Xylene NA	Total Xylenes 0.055
MW-73	MW-73:3.2-02022021	02/02/2021	3.2	<3.63	53.3	53.5	106.8	<0.000370	<0.000190	<0.000250	<0.000490	<0.000280	<0.000770
	MW-73:7-02022021	02/02/2021	7.0	**107**	**6510 D**	224 D	**6734 D**	**0.000740 J**	<0.00161 B*	<0.000330	0.00130 J	<0.000360	0.00130 J
	MW-73:11-02022021	02/02/2021	11.0	**2550 JL***	977 D	37.6	1014.6 D	**0.000600 J**	<0.00120 B*	0.00219	0.00201 J	0.00108 J	0.00309
	MW-73:15-02022021	02/02/2021	15.0	**102**	73.3	<3.6	73.3	<0.000380	<0.00127 B*	<0.000260	<0.000500	<0.000290	<0.000790
	MW-73:17.7-02022021	02/02/2021	17.7	<3.85	<2.84	<3.63	ND	<0.000420	<0.000220	<0.000290	<0.000560	<0.000320	<0.000880
MW-74	MW-74:3-02022021	02/02/2021	3.0	—	14.4	29.1	43.5	—	—	—	—	—	—
	MW-74:6-02022021	02/02/2021	6.0	—	6.29	19.9	26.19	—	—	—	—	—	—
	MW-74:10.3-02022021	02/02/2021	10.3	—	<3.03	20.6	20.6	—	—	—	—	—	—
	MW-101:10.3-02022021 (DUP)	02/02/2021	10.3	—	<3.03	22.6	22.6	—	—	—	—	—	—
MW-75	MW-75:1.5-01282021	01/28/2021	1.5	—	10.5	26.0	36.5	0.000300 J	<0.000120	<0.000160	<0.000320	<0.000180	<0.000500
	MW-75:6.0-01282021	01/28/2021	6.0	—	<2.52	<3.22	ND	<0.000250	<0.000130	<0.000170	<0.000340	<0.000190	<0.000530
	MW-75:8.5-01282021	01/28/2021	8.5	—	<3.2	32.5	32.5	**0.00119**	<0.00105 B*	<0.000210	<0.000410	<0.000230	<0.000650
	MW-75:16.0-01282021	01/28/2021	16.0	—	—	—	—	0.000440 J	0.00982	<0.000180	<0.000340	<0.000190	—
	MW-75:21.0-01282021	01/28/2021	21.0	—	—	—	—	0.000270 J	0.00250 JH*	<0.000170	<0.000330	<0.000190	—
MW-76	MW-76:1.5-01262021	01/26/2021	1.5	—	<2.76	<3.52	ND	—	—	—	—	—	—
	MW-76:5.0-01262021	01/26/2021	5.0	—	12.0 J*	40.5	52.5 J*	—	—	—	—	—	—
	MW-100:5.0-01262021 (DUP)	01/26/2021	5.0	—	29.2 J*	63.3	92.5 J*	—	—	—	—	—	—
Equipment Blank Samples[1]	EB-1-11052020	11/05/2020	EB	—	—	—	—	<0.0000500	<0.0000500	<0.0000500	<0.000140	<0.0000800	<0.000220
	EB-2-11062020	11/06/2020	EB	—	—	—	—	<0.0000500	0.0000500 J	<0.0000500	<0.000140	<0.0000800	<0.000220
	EB-3-11062020	11/06/2020	EB	—	—	—	—	<0.0000500	<0.0000500	<0.0000500	<0.000140	<0.0000800	<0.000220

Table 12A: Petroleum Hydrocarbons and BTEX in Soil

				Petroleum Hydrocarbons (mg/kg)				BTEX (mg/kg)					
				NWTPH-GX	NWTPH-DX			SW8260D					
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Residual Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes
				100	2000	2000	2000	0.00056 (0.001)	0.044	0.010	NA	NA	0.055
Trip Blank Samples[1]	TB-1-11032020	11/03/2020	TB	<0.0136	—	—	—	<0.0000300	0.0000500 J	<0.0000400	<0.0000500	<0.0000300	<0.0000900
	TB-2-11042020	11/04/2020	TB	<0.0136	—	—	—	<0.0000500	0.0000600 J	<0.0000500	<0.000140	<0.0000800	<0.000220
	TB-3-11052020	11/05/2020	TB	<0.0136	—	—	—	—	—	—	—	—	—
	TB-4-11052020	11/05/2020	TB	<0.0136	—	—	—	<0.0000500	<0.0000500	<0.0000500	<0.000140	<0.0000800	<0.000220
	TB-1-01252021	01/25/2021	TB	<0.0136	—	—	—	<0.0000500	<0.0000500	<0.0000500	<0.000140	<0.0000800	<0.000220
	TB-2-01262021	01/27/2021	TB	<0.0136	—	—	—	<0.0000500	0.000410	0.0000600 J	<0.000140	<0.0000800	<0.000220
	TB-3-01282021	01/28/2021	TB	<0.100 J*	—	—	—	<0.0000500 J*	0.000380 JL*	0.0000600 JL*	<0.000140 J*	<0.0000800 J*	<0.000220 J*
	TB-4-02012021	02/02/2021	TB	<0.0136	—	—	—	<0.0000500	0.000400	<0.0000500	<0.000140	<0.0000800	<0.000220
	Trip Blank	02/04/2021	TB	—	—	—	—	<0.0000500	<0.0000500	<0.0000500	<0.000140	<0.0000800	<0.000220
	TB-5-02052021	02/05/2021	TB	—	—	—	—	<0.0000500	<0.0000500	<0.0000500	<0.000140	<0.0000800	<0.000220

NOTES:

Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

1 Equipment blank and trip blank sample results presented in mg/L.
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
B* Result is included in the same preparatory batch as a blank detection for the associated analyte. Result is considered non-detect. Flag applied by Shannon & Wilson (*).
D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
E Reported result exceeded the instrument's upper calibration limit. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*).
JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).
BTEX = benzene, toluene, ethylbenzene, and xylenes; DUP = field duplicate; EB = equipment blank; mg/kg = milligrams per kilogram; mg/L = milligrams per liter; NA = not available; NWTPH-GX =Northwest Total Petroleum Hydrocarbons-Gasoline Extended; NWTPH-DX = Northwest Total Petroleum Hydrocarbons-Diesel Extended; TB = trip blank; VOC = volatile organic compound

Table 12B: Extractable and Volatile Petroleum Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	WA EPH (mg/kg)										WA VPH (mg/kg)						
				C10-C12 Aliphatics	C10-C12 Aromatics	C12-C16 Aliphatics	C12-C16 Aromatics	C16-C21 Aliphatics	C16-C21 Aromatics	C21-C34 Aliphatics	C21-C34 Aromatics	C8-C10 Aliphatics	C8-C10 Aromatics	C10-C12 Aliphatics	C10-C12 Aromatics	C12-C13 Aromatics	C5-C6 Aliphatics	C6-C8 Aliphatics	C8-C10 Aliphatics	C8-C10 Aromatics
MW-73	MW-73:11-02022021	02/02/2021	11.0	11.3	<1.33	17.2	17.8	303	97.9	35.6	11.8	<1.33	<1.33	126	196	338	<7.23	<7.23	R*	82.2

NOTES:
Results reported from Analytical Resources, LLC.
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
R* Rejected result due to severe quality control failures; see checklist for details. Flag applied by Shannon & Wilson.
EPH = extractable petroleum hydrocarbons; mg/kg = milligrams per kilogram; VPH = volatile petroleum hydrocarbons; WA = Washington

Table 13: Polychlorinated Biphenyls in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	PCBs (mg/kg) SW8082A Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.0000005 (0.02)
SB-2021-002	SB-2021-002:3-01282021	01/28/2021	3.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00110 J	—	—	**0.00110 J**
	SB-2021-002:6-01282021	01/28/2021	6.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	SB-2021-105:6-01282021 (DUP)	01/28/2021	6.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
SB-2020-004	SB-2020-004:2.5-11062020	11/06/2020	2.5	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.000500	—	—	<0.00140
	SB-2020-004:8-11062020	11/06/2020	8.0	<0.00610	<0.00610	<0.00610	<0.00610	<0.00610	0.0341	0.0290	—	—	**0.0631**
	SB-2020-004:13-11062020	11/06/2020	13.0	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.000600	—	—	<0.00150
	MS/MSD-SB-2020-004:13-11062020	11/06/2020	13.0	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.000600	—	—	<0.00150
	SB-2020-004:17-11062020	11/06/2020	17.0	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.000500	—	—	<0.00140
	SB-2020-101:17-11062020	11/06/2020	17.0	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.000500	—	—	<0.00140
	SB-2020-004:21-11062020	11/06/2020	21.0	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.000500	—	—	<0.00140
	SB-2020-004:27-11062020	11/06/2020	27.0	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.000500	—	—	<0.00140
SB-2020-007	SB-2020-007:1.2-2.8-11042020	11/04/2020	1.2-2.8	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00240 J	—	—	**0.00240 J**
	SB-2020-007:10-10.9-11042020	11/04/2020	10.0-10.9	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00180 J	0.00960	—	—	**0.0114 J**
	SB-2020-007:20-21.4-11042020	11/04/2020	20.0-21.4	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	SB-2020-007:23-24.6-11042020	11/04/2020	23-24.6	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.000600	—	—	<0.00150
	SB-2020-007:6-7-11042020	11/04/2020	6.0-7.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00630	—	—	**0.00630**
SB-2020-008	SB-2020-008:2-11052020	11/05/2020	2.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	SB-2020-008:5.5-11052020	11/05/2020	5.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00220 J	—	—	**0.00220 J**
	SB-2020-008:11.5-11052020	11/05/2020	11.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
SB-2020-013	SB-2020-013:1.5-11052020	11/05/2020	1.5	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.146	0.0233	—	—	**0.1693**
	SB-2020-013:6-11052020	11/05/2020	6.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0837	0.00930	—	—	**0.093**
	SB-2020-013:11.5-11052020	11/05/2020	11.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00160 J	0.00220 J	—	—	**0.00380 J**
	SB-2020-013:20.5-11052020	11/05/2020	20.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0227	0.176	—	—	**0.1987**
	SB-2020-013:23-11052020	11/05/2020	23.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160

Table 13: Polychlorinated Biphenyls in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	PCBs (mg/kg) SW8082A Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.0000005 (0.02)
SB-2020-014	SB-2020-014:1.5-11052020	11/05/2020	1.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00290 J	—	—	**0.00290 J**
	SB-2020-014:7-11052020	11/05/2020	7.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00350 J	—	—	**0.00350 J**
	SB-2020-014:11-11052020	11/05/2020	11.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0175 J*	0.00970 J*	—	—	**0.0272 J***
	SB-2020-100:11-11052020 (DUP)	11/05/2020	11.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0445 J*	0.0243 J*	—	—	**0.0688 J***
	SB-2020-014:18-11052020	11/05/2020	18.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	SB-2020-014:23-11052020	11/05/2020	23.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
SB-2020-015	SB-2020-015:1-11042020	11/04/2020	1.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.162	0.121	—	—	**0.283**
	SB-2020-015:7-11042020	11/04/2020	7.0	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.000600	—	—	<0.00150
	SB-2020-015:13-11042020	11/04/2020	13.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
SB-2020-016	SB-2020-016:2-11042020	11/04/2020	2.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00150 J	—	—	**0.00150 J**
	SB-2020-016:7-11042020	11/04/2020	7.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00590	—	—	**0.00590**
	SB-2020-016:12-11042020	11/04/2020	12.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
SB-2021-017	SB-2021-017:2-01252021	01/25/2021	2.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	SB-2021-017:5-01252021	01/25/2021	5.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	SB-2021-017:10.5-01252021	01/25/2021	10.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
SB-2021-038	SB-2021-038:2-01262021	01/26/2021	2.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	SB-2021-038:6.9-01262021	01/26/2021	6.9	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.000600	—	—	<0.00150
	SB-2021-038:7.6-01262021	01/26/2021	7.6	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.000600	—	—	<0.00150
SB-2021-041	SB-2021-041:2-01282021	01/28/2021	2.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	SB-2021-106:2-01282021 (DUP)	01/28/2021	2.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	SB-2021-041:6-01282021	01/28/2021	6.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.000600 J	—	—	**0.000600 J**
	SB-2021-041:10.5-01282021	01/28/2021	10.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00230 J	—	—	**0.00230 J**
SB-2021-042	SB-2021-106:11-01292021 (DUP)	01/29/2021	11.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0103	0.00420	—	—	**0.0145**
	SB-2021-042:11-01292021	01/29/2021	11.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00920	0.00330 J	—	—	**0.0125 J**
SB-2021-044	SB-2021-044:12-02052021	02/05/2021	12.0	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.433 D	0.0498 D	—	—	**0.4828 D**

Table 13: Polychlorinated Biphenyls in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	PCBs (mg/kg) SW8082A									
				Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.0000005 (0.02)
SB-2020-045	SB-2020-045:2.8-11032020	11/03/2020	2.8	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	SB-2020-045:7.2-11032020	11/03/2020	7.2	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
SB-2021-047	SB-2021-047:10.5-02022021	02/02/2021	10.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	<0.000600	<0.000600	<0.00160
SB-2021-065	SB-2021-065:13-02022021	02/02/2021	13.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
SB-2021-068	SB-2021-068:1.0-01262021	01/26/2021	1.0	<0.0389	<0.0389	<0.0389	<0.0389	<0.0389	<0.0389	1.40	—	—	**1.40**
	SB-2021-068:5.5-01262021	01/26/2021	5.5	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	<0.205	<0.00290	—	—	**<0.205**
SB-2021-43	SB-2021-043:9.5-01292021	01/29/2021	9.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0497	0.0112	—	—	**0.0609**
MW-53	MW-53:1-02032021	02/03/2021	1.0	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	0.00560	0.0160	—	—	**0.0216**
	MW-53:9.5-02032021	02/03/2021	9.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00370 J	0.00470	—	—	**0.00840 J**
	MW-53:11-02032021	02/03/2021	11.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0108	0.0234	—	—	**0.0342**
	MW-53:15.8-02032021	02/03/2021	15.8	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	0.00500	<0.000600	**0.00500**
MW-54	MW-54:1-02032021	02/03/2021	1.0	<1.55	<1.55	<1.55	<1.55	<1.55	56.1 D	<0.585	—	—	**56.1 D**
	MW-102:5.5-02032021 (DUP)	02/03/2021	5.5	<0.0778	<0.0778	<0.0778	<0.0778	<0.0778	4.42 D	<0.0294	—	—	**4.42 D**
	MW-54:5.5-02032021	02/03/2021	5.5	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.0757 D	0.0218 D	—	—	**0.0975 D**
	MW-54:9-02032021	02/03/2021	9.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0592	<0.000600	—	—	**0.0592**
	MW-54:14.5-02042021	02/04/2021	14.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00610	0.00190 J	<0.000600	<0.000600	**0.00800 J**
MW-60	MW-60:1.5-02012021	02/01/2021	1.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600 J*	—	—	<0.00160
	MW-60:5-02012021	02/01/2021	5.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	MW-60:9-02012021	02/01/2021	9.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
MW-61	MW-61:1.5-02012021	02/01/2021	1.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0720	0.0227	—	—	**0.0947**
	MW-61:6-02012021	02/01/2021	6.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	MW-61:11-02012021	02/01/2021	11.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
MW-65	MW-65:20-02052021	02/05/2021	20.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00210 J	—	—	**0.00210 J**
MW-68	MW-68:8.5-02022021	02/02/2021	8.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160

Table 13: Polychlorinated Biphenyls in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	PCBs (mg/kg) SW8082A Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.0000005 (0.02)
MW-73	MW-73:3.2-02022021	02/02/2021	3.2	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00340 J	0.00440	—	—	**0.00780 J**
	MW-73:7-02022021	02/02/2021	7.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	MW-73:11-02022021	02/02/2021	11.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	MW-73:15-02022021	02/02/2021	15.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	MW-73:17.7-02022021	02/02/2021	17.7	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
MW-74	MW-74:3-02022021	02/02/2021	3.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	MW-74:6-02022021	02/02/2021	6.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
	MW-101:10.3-02022021 (DUP)	02/02/2021	10.3	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00290 J	0.00190 J	—	—	**0.00480 J**
	MW-74:10.3-02022021	02/02/2021	10.3	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
Equipment Blank Samples[1]	EB-1-11052020	11/05/2020	EB	<0.0000180	<0.0000180	<0.0000180	<0.0000180	<0.0000180	<0.0000180	<0.0000170	<0.0000170	<0.0000170	<0.0000180
	EB-2-11062020	11/06/2020	EB	<0.0000180	<0.0000180	<0.0000180	<0.0000180	<0.0000180	<0.0000180	<0.0000170	<0.0000170	<0.0000170	<0.0000180
	EB-3-11062020	11/06/2020	EB	<0.0000180	<0.0000180	<0.0000180	<0.0000180	<0.0000180	<0.0000180	<0.0000170	<0.0000170	<0.0000170	<0.0000180

NOTES:
Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

1 Equipment blank sample results presented in mg/L.
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
bgs = below ground surface; DUP = field duplicate; EB = equipment blank; mg/kg = milligrams per kilogram; mg/L = milligrams per liter; NA = not available; PCB = polychlorinated biphenyl

Table 14: Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	cPAHs (mg/kg) 8270E/8270ESIM							
				Benzo(a)pyrene 0.000016 (0.0005)	Benzo(a)anthracene 110	Benzo(b)fluoranthene 230*	Benzo(k)fluoranthene 230*	Chrysene 110	Dibenzo(a,h)anthracene 12	Indeno(1,2,3-cd)pyrene 34	Total cPAH TEQ 0.000016
SB-2020-001	SB-2020-001:2.2-11032020	11/03/2020	2.2	**0.00344**	0.00395	0.00433	0.00166	0.00662	0.000610 J	0.00247	**0.0048082**
	SB-2020-001:6.8-11032020	11/03/2020	6.8	**0.000460 J**	0.00454	0.000910	0.000310 J	0.00460	<0.000100	0.000300 J	**0.001117**
SB-2021-002	SB-2021-002:3-01282021	01/28/2021	3.0	**0.00791**	0.00881	0.0112	0.00455	0.0165	0.00161	0.00892	**0.011584**
	SB-2021-002:6-01282021	01/28/2021	6.0	**0.000100 J***	0.000180 J*	0.000230 J*	<0.000100	0.000390 J*	<0.000100	<0.0000900	**0.0001594**
	SB-2021-105:6-01282021 (DUP)	01/28/2021	6.0	**0.000190 J***	0.000400 J*	0.000470 J*	0.000150 J	0.000720 J*	<0.000100	0.000240 J	**0.0003282**
SB-2021-003	SB-2021-003:2-01262020	01/26/2021	2.0	**0.00595**	0.00768	0.0102	0.00357	0.0160	0.00139	0.00454	**0.008848**
	SB-2021-003:10.3-01262020	01/26/2021	10.3	**0.000860**	0.000980	0.00144	0.000370 J	0.00234	0.000180 J	0.000620	**0.0012424**
	SB-2021-003:11.5-01262020	01/26/2021	11.5	**0.000120 J**	0.000250 J	0.000460 J	<0.000100	0.000850	<0.000100	<0.0000900	**0.000214**
SB-2020-004	SB-2020-004:2.5-11062020	11/06/2020	2.5	**0.00421**	0.00540	0.00723	0.00231	0.0134	0.00139	0.00425	**0.006402**
	SB-2020-004:8-11062020	11/06/2020	8.0	**0.00677**	0.0108	0.00509	0.00150 J	0.0245	<0.000410	0.00303	**0.0090775**
	SB-2020-004:13-11062020	11/06/2020	13.0	<0.0000800	0.000230 J	0.000320 J	<0.000100	0.000550	<0.000100	<0.0000800	**0.0001145**
	SB-2020-004:17-11062020	11/06/2020	17.0	<0.0000800	0.000110 J*	0.000160 J	<0.0000900	0.000230 J*	<0.0000900	<0.0000800	**0.0000823**
	SB-2020-101:17-11062020 (DUP)	11/06/2020	17.0	**0.000130 J**	0.000260 J*	0.000250 J	<0.0000900	0.000520 J*	<0.0000900	0.0000800 J	**0.0002032**
	SB-2020-004:21-11062020	11/06/2020	21.0	**0.000480**	0.000670	0.000980	0.000180 J	0.00115	<0.0000900	0.000190 J	**0.000698**
	SB-2020-004:27-11062020	11/06/2020	27.0	**0.000100 J**	0.000320 J	0.000220 J	<0.0000900	0.000540	<0.0000900	<0.0000800	**0.0001724**
SB-2020-005	SB-2020-005:1-11042020	11/04/2020	1.0	**<0.00102 B***	0.00203 JH*	0.00167 JH*	<0.000510 B*	0.00339 JH*	0.000280 J	<0.000640 B*	**0.0009994**
	SB-2020-005:6-11042020	11/04/2020	6.0	**0.00972**	0.00866	0.0106	0.00412	0.0147	0.00160	0.00735	**0.0131**
	SB-2020-005:12-11042020	11/04/2020	12.0	**<0.000750 B***	<0.000700 B*	<0.000950 B*	<0.000500 B*	<0.00127 B*	0.000180 J	<0.000550 B*	**0.00053435**
	SB-2020-005:20-11042020	11/04/2020	20.0	**0.0302**	0.0262	0.0226	0.0134	0.0311	0.00704	0.0216	**0.039595**
SB-2021-006	SB-2021-006:1.5-01292021	01/29/2021	1.5	**0.00798**	0.00623	0.00733Q	0.00431	0.0103	0.00158	0.00528	**0.010556**
	SB-2021-006:6-01292021	01/29/2021	6.0	**0.000280 J**	0.000550	0.000340 J	0.000230 J	0.000930	<0.000100	0.000160 J	**0.0004223**
	SB-2021-006:10-01292021	01/28/2021	10.0	**0.0730**	0.133	0.0354Q	0.0201 J	0.231	<0.00523	0.0139 J	**0.0958115**
	SB-2021-006:20-01292021	01/29/2021	20.0	<0.0000900	<0.0000700	0.0000700 JL*	<0.000100	<0.000500 B*	<0.000100	<0.0000900	**0.0000725**

Table 14: Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	cPAHs (mg/kg) 8270E/8270ESIM							
				Benzo(a)pyrene 0.000016 (0.0005)	Benzo(a)anthracene 110	Benzo(b)fluoranthene 230*	Benzo(k)fluoranthene 230*	Chrysene 110	Dibenzo(a,h)anthracene 12	Indeno(1,2,3-cd)pyrene 34	Total cPAH TEQ 0.000016
SB-2020-007	SB-2020-007:1.2-2.8-11042020	11/04/2020	1.2-2.8	<0.00117 B*	0.00252 JH*	0.00185 JH*	<0.000610 B*	0.00427 JH*	0.000180 J	<0.000610 B*	**0.0011437**
	SB-2020-007:10-10.9-11042020	11/04/2020	10.0-10.9	**0.00855**	0.00743	0.0102	0.00409	0.0122	0.00172	0.00779	**0.011795**
	SB-2020-007:20-21.4-11042020	11/04/2020	20.0-21.4	**0.00561**	0.00551	0.00564	0.00247	0.00913	0.00107	0.00419	**0.0075893**
	SB-2020-007:23-24.6-11042020	11/04/2020	23-24.6	**0.00453**	0.00573	0.00693	0.00279	0.00787	0.00119	0.00559	**0.0068317**
	SB-2020-007:6-7-11042020	11/04/2020	6.0-7.0	**0.00538**	0.00548	0.00679	0.00267	0.00840	0.00103	0.00455	**0.007516**
SB-2020-008	SB-2020-008:2-11052020	11/05/2020	2.0	**0.00115**	0.00113	0.00206	0.000660	0.00216	0.000350 J	0.00120	**0.0017116**
	SB-2020-008:5.5-11052020	11/05/2020	5.5	**0.00291**	0.00273	0.00459	0.00150	0.00514	0.000890	0.00290	**0.0042224**
	SB-2020-008:11.5-11052020	11/05/2020	11.5	**0.00159**	0.00213	0.00233	0.000770	0.00354	0.000420 J	0.00135	**0.0023254**
	SB-2020-008:20-11052020	11/05/2020	20.0	**0.00324**	0.00397	0.00406	0.00163	0.00639	0.000570	0.00255	**0.0045819**
SB-2021-009	SB-2021-009:2-01252021	01/25/2021	2.0	**0.000150 J**	0.000310 J	0.000300 J	0.000140 J	0.000430 J	<0.000100	0.000120 J	**0.0002463**
	SB-2021-009:6-01252021	01/25/2021	6.0	**0.000130 J**	0.000190 J	0.000100 J	<0.000100	0.000420 J	<0.000100	<0.0000900	**0.0001777**
	SB-2021-009:10.8-01252021	01/25/2021	10.8	<0.0000900	0.000150 J	0.000150 J	<0.000100	0.000350 J	<0.000100	<0.0000900	**0.000093**
SB-2021-010	SB-2021-010:1.5-01282021	01/28/2021	1.5	**0.00159**	0.00155	0.00178	0.000840	0.00211	0.000330 J	0.00132	**0.0021931**
	SB-2021-010:6-01282021	01/28/2021	6.0	**0.000930**	0.000980	0.00314	0.000940	0.00235	0.000630	0.00208	**0.0017305**
	SB-2021-104:6-01282021 (DUP)	01/28/2021	6.0	**0.000850**	0.000870	0.00241	0.000850	0.00198	0.000470 J	0.00175	**0.0015048**
	SB-2021-010:11-01282021	01/28/2021	11.0	**0.000200 J**	0.000230 J	0.000390 J	0.000140 J	0.000690	<0.000100	0.000270 J	**0.0003149**
SB-2021-011	SB-2021-011:1-01252021	01/25/2021	1.0	**0.0121 J***	0.0126 D	0.0212Q, D	0.00665 D	0.0462	0.00337 J*	0.00842 D	**0.017786**
	SB-2021-101:1-01252021 (DUP)	01/25/2021	1.0	**0.00670 J***	0.00917 D	0.0142Q, D	0.00612 D	0.0313	0.00200 J*	0.00565 D	**0.010727**
	SB-2021-011:3-01252021	01/25/2021	3.0	**0.0577 D**	0.0643 D	0.0894 D	0.0470 D	0.150 D	0.0207	0.0667 E	**0.08801**
	SB-2021-011:10-01252021	01/25/2021	10.0	**0.00417**	0.00212	0.00424	0.00126	0.00450	0.000710	0.00337	**0.005385**
SB-2021-012	SB-2021-012:2-01252021	01/25/2021	2.0	**0.00186**	0.00298	0.00238	0.00141	0.00317	0.000500 J	0.00140	**0.0027587**
	SB-2021-012:3.4-01252021	01/25/2021	3.4	**0.00435**	0.00446	0.00501	0.00191	0.00795	0.000730	0.00344	**0.0059845**
	SB-2021-012:10.4-01252021	01/25/2021	10.4	**0.000200 J**	0.000300 J	0.000340 J	0.000120 J	0.000600	<0.000100	0.000110 J	**0.000298**

Table 14: Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil

				cPAHs (mg/kg) 8270E/8270ESIM							
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Benzo(a)pyrene 0.000016 (0.0005)	Benzo(a)anthracene 110	Benzo(b)fluoranthene 230*	Benzo(k)fluoranthene 230*	Chrysene 110	Dibenzo(a,h)anthracene 12	Indeno(1,2,3-cd)pyrene 34	Total cPAH TEQ 0.000016
SB-2020-013	SB-2020-013:1.5-11052020	11/05/2020	1.5	**0.0119**	0.0118	0.0157	0.00699	0.00953	0.00210	0.00724	**0.0163783**
	SB-2020-013:6-11052020	11/05/2020	6.0	**0.00238**	0.00196	0.00317	0.00134	0.00272	0.000590	0.00196	**0.0033092**
	SB-2020-013:11.5-11052020	11/05/2020	11.5	**0.00221**	0.00299	0.00330	0.00145	0.00315	0.000520	0.00178	**0.0032455**
	SB-2020-013:20.5-11052020	11/05/2020	20.5	**0.0246**	0.0284	0.0265	0.0114	0.0375	0.00447	0.0146	**0.033512**
	SB-2020-013:23-11052020	11/05/2020	23.0	**0.00316**	0.00529	0.00434	0.00168	0.00623	0.000510	0.00247	**0.0046513**
SB-2020-014	SB-2020-014:1.5-11052020	11/05/2020	1.5	**0.00303**	0.00359	0.00503	0.00206	0.00639	0.000930	0.00302	**0.0045569**
	SB-2020-014:7-11052020	11/05/2020	7.0	**0.000520**	0.000450 J	0.00169	0.000530	0.00159	0.000180 J	0.00137	**0.0009579**
	SB-2020-014:11-11052020	11/05/2020	11.0	**0.000230 J**	0.00212	0.00130	0.000460 J	0.0132	0.000290 J	0.000460 J	**0.000825**
	SB-2020-100:11-11052020 (DUP)	11/05/2020	11.0	**0.000360 J**	0.00299	0.00188	0.000490 J	0.0188	0.000360 J	0.000540	**0.001174**
	SB-2020-014:18-11052020	11/05/2020	18.0	**0.000110 J**	0.000340 J	0.000340 J	0.000100 J	0.000640 JH*	<0.000100	0.000110 J	**0.0002104**
	SB-2020-014:23-11052020	11/05/2020	23.0	**0.00174**	0.000950	0.00209	0.000920	0.00160	0.000350 J	0.00255	**0.002442**
SB-2020-015	SB-2020-015:1-11042020	11/04/2020	1.0	**0.00859**	0.00928	0.0124	0.00426	0.0125	0.00265	0.00767	**0.012341**
	SB-2020-015:7-11042020	11/04/2020	7.0	<0.000490 B*	<0.000490 B*	<0.000490 B*	<0.000490 B*	<0.000490 B*	<0.000100	<0.000490 B*	ND
	SB-2020-015:13-11042020	11/04/2020	13.0	<0.000490 B*	<0.000490 B*	<0.000490 B*	<0.000100	<0.000690 B*	<0.000100	<0.000490 B*	ND
SB-2020-016	SB-2020-016:2-11042020	11/04/2020	2.0	<0.000500 B*	<0.000500 B*	<0.000500 B*	<0.000500 B*	<0.000790 B*	<0.000100	<0.000500 B*	ND
	SB-2020-016:7-11042020	11/04/2020	7.0	**0.00159 JH***	<0.00154 B*	0.00223 JH*	<0.000880 B*	0.00251 JH*	0.000580	0.00171 JH*	**0.0021881**
	SB-2020-016:12-11042020	11/04/2020	12.0	<0.000500 B*	<0.000500 B*	<0.000500 B*	<0.000100	<0.000750 B*	<0.000100	<0.000500 B*	ND
SB-2021-017	SB-2021-017:2-01252021	01/25/2021	2.0	**0.0116**	0.0108	0.00767	0.00406	0.0139	0.00181	0.00624	**0.014797**
	SB-2021-017:5-01252021	01/25/2021	5.0	**0.000130 J**	0.000310 J	0.000350 J	0.000130 J	0.000640	<0.000100	0.000120 J	**0.0002324**
	SB-2021-017:10.5-01252021	01/25/2021	10.5	**0.000400 J**	0.000980	0.000710	0.000270 J	0.00182	<0.000100	0.000260 J	**0.0006452**
SB-2021-027	SB-2021-027:5.3-01282021	01/28/2021	5.3	**0.000780**	0.00160	0.000980Q	0.000360 J	0.00250	0.000120 J	0.000590	**0.00117**
	SB-2021-027:10-01282021	01/28/2021	10.0	**0.000600**	0.00113	0.000960Q	0.000330 J	0.00208	0.000140 J	0.000360 J	**0.0009128**
	SB-2021-027:2.2-01282021	01/28/2021	2..2	**0.00173**	0.00310	0.00222Q	0.000930	0.00562	0.000270 J	0.00117	**0.0025552**

Table 14: Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	cPAHs (mg/kg) 8270E/8270ESIM							
				Benzo(a)pyrene 0.000016 (0.0005)	Benzo(a)anthracene 110	Benzo(b)fluoranthene 230*	Benzo(k)fluoranthene 230*	Chrysene 110	Dibenzo(a,h)anthracene 12	Indeno(1,2,3-cd)pyrene 34	Total cPAH TEQ 0.000016
SB-2020-028	SB-2020-028:2.3-11032020	11/03/2020	2.3	**0.00451**	0.00544	0.00722	0.00244	0.0106	0.00108 J	0.00475	**0.006709**
	SB-2020-028:6.8-11032020	11/03/2020	6.8	**0.000120 J**	0.000250 J	0.000250 J	<0.000100	0.000450 J	<0.000100	<0.0000900	**0.000189**
SB-2020-029	SB-2020-029:3.2-11032020	11/03/2020	3.2	**0.00500**	0.00918	0.00625	0.00224	0.0148	0.00174 J	0.00447	**0.007536**
	SB-2020-029:7.5-11032020	11/03/2020	7.5	**0.000120 J**	0.000260 J	0.000300 J	<0.000100	0.000690	<0.000100	<0.0000900	**0.0001974**
SB-2021-038	SB-2021-038:2-01262021	01/26/2021	2.0	**0.00188 JL***	0.00260 JL*	0.00595 JL*	0.00252	0.00719	0.000940 JL*	0.00323 JL*	**0.0034759**
	SB-2021-038:6.9-01262021	01/26/2021	6.9	**0.000540**	0.000970	0.000520	0.000250 J	0.00125	<0.000100	0.000260 J	**0.0007575**
	SB-2021-038:7.6-01262021	01/26/2021	7.6	**0.00542**	0.00445	0.00476	0.00246	0.00575	0.000890	0.00361	**0.0070945**
	SB-2021-038:12.9-1262021	01/26/2021	12.9	<0.0000900	0.0000900 J	0.000150 JL*	<0.000100	<0.000500 B*	<0.000100	<0.0000900	**0.000086**
SB-2021-039	SB-2021-039:2-01252021	01/25/2021	2.0	<0.0000900	0.000220 J	0.000230 J	0.000120 J	0.000460 J	<0.000100	0.000110 J	**0.0001226**
	SB-2021-039:7.4-01252021	01/25/2021	7.4	**0.00762**	0.00378	0.00725	0.00307	0.00875	0.000700	0.00739	**0.0099265**
	SB-2021-039:10.7-01252021	01/25/2021	10.7	**0.000480 J**	0.000500 J	0.000750	0.000270 J	0.00126	<0.000100	0.000390 J	**0.0006886**
SB-2021-040	SB-2021-040:2-01282021	01/28/2021	2.0	**0.00508**	0.00559	0.00430	0.00252	0.00676	0.00107	0.00325	**0.0068206**
	SB-2021-040:5-01282021	01/28/2021	5.0	**0.00190**	0.00256	0.00278	0.000870	0.00506	0.000670	0.00206	**0.0028446**
	SB-2021-040:10.4-01282021	01/28/2021	10.4	**0.00371**	0.00372	0.00549	0.00173	0.00765	0.000790	0.00453	**0.0054125**
	SB-2021-040:13.7-01282021	01/28/2021	13.7	<0.0000900	0.000120 J	0.000170 JL*	<0.000100	0.000450 JH*	<0.000100	<0.0000900	**0.000093**
SB-2021-041	SB-2021-041:2-01282021	01/28/2021	2.0	<0.0000900	0.000100 J	0.000150 J	<0.000100	0.000270 J	<0.000100	<0.0000900	**0.0000872**
	SB-2021-106:2-01282021 (DUP)	01/28/2021	2.0	<0.0000900	0.000120 J	0.000100 J	<0.000110	0.000360 J	<0.000110	<0.0000900	**0.0000861**
	SB-2021-041:6-01282021	01/28/2021	6.0	**0.000290 J**	0.000340 J	0.000370 J	0.000190 J	0.000600	<0.000100	0.000180 J	**0.000409**
	SB-2021-041:10.5-01282021	01/28/2021	10.5	**0.000310 J**	0.000500	0.00238	0.000620	0.00323	0.000210 J	0.000960	**0.0008093**
	SB-2021-041:13.3-01282021	01/28/2021	13.3	**0.000110 J**	0.000170 J	0.000160 JL*	<0.000100	0.000550 JH*	<0.000100	<0.0000900	**0.000163**
SB-2021-042	SB-2021-042:11-01292021	01/29/2021	11.0	**0.000950**	0.000830	0.00160 J*	0.000870 J*	0.00193	0.000240 J	0.000890	**0.0014123**
	SB-2021-106:11-01292021 (DUP)	01/29/2021	11.0	**0.00142**	0.00114	0.00309 J*	0.00159 J*	0.00250	0.000310 J	0.00126	**0.002184**
SB-2021-043	SB-2021-043:9.5-01292021	01/29/2021	9.5	**0.000370 J**	0.000410 J	0.000510Q	0.000260 J	0.000790	<0.000100	0.000300 J	**0.0005309**

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				cPAHs (mg/kg) 8270E/8270ESIM							
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Benzo(a)pyrene 0.000016 (0.0005)	Benzo(a)anthracene 110	Benzo(b)fluoranthene 230*	Benzo(k)fluoranthene 230*	Chrysene 110	Dibenzo(a,h)anthracene 12	Indeno(1,2,3-cd)pyrene 34	Total cPAH TEQ 0.000016
SB-2021-044	SB-2021-044:12-02052021	02/05/2021	12.0	**0.00750**	0.00706	0.00547	0.00267	0.00747	0.00129	0.00430	**0.0096537**
SB-2020-045	SB-2020-045:2.8-11032020	11/03/2020	2.8	**0.00106**	0.00168	0.00162	0.000530	0.00258	0.000220 J	0.000650	**0.0015558**
	SB-2020-045:7.2-11032020	11/03/2020	7.2	**0.000140 J**	0.000230 J	0.000250 J	<0.000100	0.000430 J	<0.000110	0.0000900 J	**0.0002118**
SB-2021-046	SB-2021-046:2-01262021	01/26/2021	2.0	**0.000320 J**	0.000400 J	0.000300 J	0.000240 J	0.000770	<0.000100	0.000230 J	**0.0004497**
	SB-2021-046:5.6-01262021	01/26/2021	5.6	**0.00606**	0.00758	0.0179	0.00327	0.0310	0.00200	0.00282	**0.009727**
	SB-2021-046:10.7-01262021	01/26/2021	7.0	**0.00709**	0.00793	0.00938	0.00277	0.0176	0.00127	0.00346	**0.009747**
	SB-2021-046:13.9-1262021	01/26/2021	13.9	**0.0000900 J**	0.000240 J	0.000230 JL*	0.000110 J	0.000720 JH*	<0.000100	<0.0000900	**0.0001647**
SB-2021-047	SB-2021-047:1.5-02022021	02/02/2021	1.5	**0.000110 J**	0.0000800 J	0.000130 J	<0.000100	0.000190 J	<0.000100	0.000100 J	**0.0001529**
	SB-2021-047:7.1-02022021	02/02/2021	7.1	**0.00284**	0.00336	0.00328	0.00179	0.00579	0.000600	0.00251	**0.0040519**
	SB-2021-047:10.5-02022021	02/02/2021	10.5	<0.0000900	0.000130 J	0.000250 JL*	<0.000100	<0.000500 B*	<0.000100	0.000210 J	**0.0001165**
SB-2021-065	SB-2021-65:11.9-02022021	02/02/2021	11.9	**0.00567**	0.00448	0.00730 JL*	0.00323	0.00777	0.00141	0.00570	**0.0079597**
	SB-2021-065:13-02022021	02/02/2021	13.0	**0.00620**	0.00497	0.00526	0.00206	0.00878	<0.000100	0.00320	**0.0078418**
SB-2021-068	SB-2021-068:1.0-01262021	01/26/2021	1.0	**<0.0580**	<0.0646	—	—	<0.0614	<0.0460	<0.0773	**ND**
	SB-2021-068:5.5-01262021	01/26/2021	5.5	**<0.0581**	<0.0647	—	—	<0.0615	<0.0461	<0.0774	**ND**
MW-10R	MW-10R:2-02052021	02/05/2021	2.0	**0.000750**	0.00101	0.00103	0.000340 J	0.00190	0.000170 J	0.000550	**0.001079**
	MW-10R:5.4-02052021	02/05/2021	5.4	**0.000420 J**	0.000690	0.000810	0.000220 J	0.00159	<0.000110	0.000320 J	**0.0006454**
	MW-104:9-02052021 (DUP)	02/05/2021	9.0	**0.00351 J***	0.00248 J*	0.00504 J*	0.00190 J*	0.00611 J*	0.000770 J*	0.00492 J*	**0.0050821**
	MW-10R:9-02052021	02/05/2021	9.0	**0.000880 J***	0.000840 J*	0.00157 J*	0.000510 J*	0.00201 J*	<0.000100 J*	0.00145 J*	**0.0013421**
	MW-10R:15-02052021	02/05/2021	15.0	**0.000130 J**	0.000270 J	0.000300 JL*	0.000120 J	0.000650 JH*	<0.000100	<0.0000900	**0.000215**
MW-22R	MW-22R:1.0-02032021	02/03/2021	1.0	**0.00223**	0.00134	0.00264Q	0.000860	0.00476	0.000550	0.00153	**0.0029696**
	MW-22R:5.5-02032021	02/03/2021	5.5	**0.0100**	0.00770	0.0138Q	0.00416	0.0182	0.00190	0.00522	**0.01346**
	MW-22R:9.0-02032021	02/03/2021	9.0	**0.00745**	0.00568	0.00791Q	0.00351	0.00934	0.000920	0.00548	**0.0098934**
	MW-22R:15.5-02032021	02/03/2021	15.5	**0.00522 D**	0.00573 D	0.00640 D	0.00199 D	0.0129 D	<0.000310	0.00259 D	**0.0070355**
	MW-22R:20.5-02032021	02/03/2021	20.5	**0.000340 J**	0.000540	0.000500Q	0.000110 J	0.00228	<0.000100	<0.0000900	**0.0004873**

Table 14: Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil

				cPAHs (mg/kg) 8270E/8270ESIM							
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Benzo(a)pyrene 0.000016 (0.0005)	Benzo(a)anthracene 110	Benzo(b)fluoranthene 230*	Benzo(k)fluoranthene 230*	Chrysene 110	Dibenzo(a,h)anthracene 12	Indeno(1,2,3-cd)pyrene 34	Total cPAH TEQ 0.000016
MW-53	MW-53:1-02032021	02/03/2021	1.0	**0.00559**	0.00410	0.0115Q	0.00357	0.00537	0.00139	0.00451	**0.0081507**
	MW-53:9.5-02032021	02/03/2021	9.5	**0.00661**	0.00385	0.0112Q	0.00346	0.00641	0.00151	0.00495	**0.0091711**
	MW-53:11-02032021	02/03/2021	11.0	**0.00524**	0.00431	0.00850	0.00263	0.00604	0.00172	0.00607	**0.0076234**
	MW-53:15.8-02032021	02/03/2021	15.8	**0.00352**	0.00426	0.00450 JL*	0.00189	0.00628	0.000670	0.00274	**0.0049888**
MW-54	MW-54:1-02032021	02/03/2021	1.0	**0.00782**	0.00747	0.0188Q	0.00784	0.0140	0.00261	0.00774	**0.012406**
	MW-102:5.5-02032021 (DUP)	02/03/2021	5.5	**0.00959**	0.00843	0.0183Q	0.00557	0.0217	0.00182	0.00380	**0.013599**
	MW-54:5.5-02032021	02/03/2021	5.5	**0.00400**	0.00479	0.0106Q	0.00184	0.0202	0.000730	0.000860	**0.006084**
	MW-54:9-02032021	02/03/2021	9.0	**0.000450 J**	0.000670	0.00126Q	0.000400 J	0.00133	0.000170 J	0.000370 J	**0.0007503**
MW-55	MW-55:1.5-02032021	02/03/2021	1.5	**0.000480 J**	0.000510	0.000800Q	0.000260 J	0.00128	<0.000100	0.000280 J	**0.0006828**
	MW-55:5.5-02032021	02/03/2021	5.5	**0.00422**	0.00532	0.00552	0.00188	0.00812	0.000880	0.00366	**0.0060272**
	MW-55:9.5-02032021	02/03/2021	9.5	**0.0176**	0.0186	0.0124	0.00626	0.0232	0.00329	0.00979	**0.022866**
	MW-55:15.5-02032021	02/03/2021	15.5	**0.00406**	0.00283	0.00310 JL*	0.00174	0.00451	0.000710	0.00276	**0.0052191**
MW-56	MW-56:1.0-02022021	02/02/2021	1.0	**0.00248**	0.00221	0.00328	0.00111	0.00359	0.000560	0.00177	**0.0034089**
	MW-56:5.5-02022021	02/02/2021	5.5	**0.00389**	0.00521	0.00551	0.00181	0.00958	0.000760	0.00308	**0.0056228**
	MW-101:8.0-02022021 (DUP)	02/02/2021	8.0	**0.00469 J***	0.00446 J*	0.00606 J*	0.00231 J*	0.00842 J*	0.000700 J*	0.00425 J*	**0.0065522**
	MW-56:8.0-02022021	02/02/2021	8.0	<0.0000900 J*	0.000320 J*	0.000440 J*	<0.000100 J*	0.000770 J*	<0.000100 J*	<0.0000900 J*	**0.0001432**
MW-57	MW-57:5-01272021	01/27/2021	5.0	**0.00623**	0.0101	0.00956	0.00388 J	0.0177	<0.00105	0.00515	**0.0093285**
	MW-57:6-01272021	01/27/2021	6.0	<0.0000900	<0.0000700	<0.0000700	<0.000100	0.000290 J	<0.000100	<0.0000900	**0.0000694**
	MW-57:10-01272021	01/27/2021	10.0	**0.0151**	0.0123	0.0109	0.00539	0.0148	0.00204	0.00754	**0.019065**
	MW-57:15.3-01272021	01/27/2021	15.3	**0.00117**	0.00109	0.00110 JL*	0.000590	0.00174	0.000190 J	0.000800	**0.0015644**
MW-58	MW-58:1.5-01272021	01/27/2021	1.5	**0.00169 J***	0.00234	0.00263	0.00103	0.00404	0.000420 J*	0.00131 J*	**0.0025034**
	MW-58:5.5-01272021	01/27/2021	5.5	**0.000280 J**	0.000410 J	0.000430 J	0.000230 J	0.000750	<0.000100	0.000230 J	**0.0004225**
	MW-58:8.4-01272021	01/27/2021	8.4	**0.00225**	0.00370	0.00161	0.000790	0.00519	0.000360 J	0.000790	**0.0030269**
	MW-58:15-01272021	01/27/2021	15.0	**0.000130 J**	0.000270 J	0.000370 JL*	0.000170 J	0.000610 JH*	<0.000100	0.000160 J	**0.0002381**

Table 14: Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	cPAHs (mg/kg) 8270E/8270ESIM							
				Benzo(a)pyrene 0.000016 (0.0005)	Benzo(a)anthracene 110	Benzo(b)fluoranthene 230*	Benzo(k)fluoranthene 230*	Chrysene 110	Dibenzo(a,h)anthracene 12	Indeno(1,2,3-cd)pyrene 34	Total cPAH TEQ 0.000016
MW-59	MW-59:1.0-02032021	02/03/2021	1.0	**0.0164**	0.0226	0.0265 D	0.00890	0.0289	0.00438	0.0118 D	**0.024107**
	MW-59:6.5-02032021	02/03/2021	6.5	**0.000860**	0.00105	0.000930Q	0.000410 J	0.00140	0.000110 J	0.000380 J	**0.001162**
	MW-59:9.5-02032021	02/03/2021	9.5	**0.00337**	0.00254	0.00232Q	0.00142	0.00331	0.000490 J	0.00196	**0.0042761**
MW-60	MW-60:1.5-02012021	02/01/2021	1.5	**0.00103**	0.00181	0.00136	0.000490 J	0.00368	0.000160 J	0.000690	**0.0015178**
	MW-60:5-02012021	02/01/2021	5.0	**0.00153**	0.00192	0.00217	0.000970	0.00392	0.000410 J	0.00150	**0.0022662**
	MW-60:9-02012021	02/01/2021	9.0	**0.000390 J**	0.00131	0.000630	0.000260 J	0.00230	0.000190 J	0.000320 J	**0.000684**
MW-61	MW-61:1.5-02012021	02/01/2021	1.5	**0.00206**	0.00237	0.00297	0.00115	0.00404	0.000710	0.00238	**0.0030584**
	MW-61:6-02012021	02/01/2021	6.0	**0.000320 J**	0.000190 J	0.000390 J	0.000190 J	0.000440 J	0.000120 J	0.000610	**0.0004744**
	MW-61:11-02012021	02/01/2021	11.0	<0.0000900	0.000130 J	0.000140 J	<0.000100	0.000520	<0.000100	<0.0000900	**0.0000917**
MW-62	MW-62:1-01272021	01/27/2021	1.0	**0.000700**	0.00121	0.00126	0.000410 J	0.00193	<0.000100	0.000470 J	**0.0010593**
	MW-62:5-01272021	01/27/2021	5.0	<0.0000900	0.000280 J	0.000330 J	0.000110 J	0.000480 J	<0.000100	<0.0000900	**0.0001313**
	MW-62:8.6-01272021	01/27/2021	8.6	**0.0164**	0.0117	0.0132	0.00623	0.0164	0.00228	0.00904	**0.020809**
	MW-62:15-01272021	01/27/2021	15.0	**0.000190 J**	0.000350 J	0.000370 JL*	0.000160 J	0.000810	<0.000100	0.000160 J	**0.0003071**
MW-64	MW-64:5.2-01282021	01/28/2021	5.2	**0.00128**	0.00140	0.00164Q	0.000800	0.00296	0.000200 J	0.000750	**0.0017886**
	MW-64:9.0-01282021	01/28/2021	9.0	<0.0000900	0.000140 J	0.000110 J	<0.000100	0.000350 J	<0.000100	<0.0000900	**0.000088**
	MW-64:14.0-01282021	01/28/2021	14.0	<0.0000900	0.000200 J	0.000240 J	<0.000100	0.000570	<0.000100	<0.0000900	**0.0001092**
MW-65	MW-65:20-02052021	02/05/2021	2.0	**0.00184**	0.00192	0.00228	0.000880	0.00311	0.000250 J	0.00178	**0.0025821**
MW-66	MW-66:1.2-0112521	01/25/2021	1.2	**0.00205**	0.00337	0.00410	0.000900	0.00362	0.000450 J	0.00152	**0.0031202**
	MW-66:5.5-0112521	01/25/2021	5.5	**0.0000900 J**	0.000230 J	0.000220 J	<0.000100	0.000460 J	<0.000100	<0.0000900	**0.0001541**
	MW-66:10.0-0112521	01/25/2021	10.0	**0.00194**	0.00238	0.00221	0.000910	0.00395	0.000410 J	0.00157	**0.0027275**
MW-67	MW-67:0.5-01262021	01/26/2021	0.5	**0.0116**	0.0120	0.0112	0.00658	0.0134	0.00304	0.00977	**0.015993**
	MW-67:5.5-01262021	01/26/2021	5.5	**0.0309**	0.0323	0.0271	0.0131	0.0335	0.00594	0.0222	**0.041299**
	MW-67:9.0-01262021	01/26/2021	9.0	<0.0000900	0.000920	0.00168	0.000510	0.00231	<0.000110	0.000940	**0.0004786**
	MW-67:16.0-01262021	01/26/2021	16.0	**<0.00995**	<0.00995	—	—	<0.00995	<0.00995	<0.00995	**ND**
	MW-67:20.5-01262021	01/26/2021	20.5	**<0.0100**	<0.0100	—	—	<0.0100	<0.0100	<0.0100	**ND**

Table 14: Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	cPAHs (mg/kg) 8270E/8270ESIM							
				Benzo(a)pyrene 0.000016 (0.0005)	Benzo(a)anthracene 110	Benzo(b)fluoranthene 230*	Benzo(k)fluoranthene 230*	Chrysene 110	Dibenzo(a,h)anthracene 12	Indeno(1,2,3-cd)pyrene 34	Total cPAH TEQ 0.000016
MW-68	MW-68:8.5-02022021	02/02/2021	8.5	<0.00580	<0.00650	—	—	<0.00620	0.0103 J	<0.00770	**0.004671**
	MW-68:15.5-02022021	02/02/2021	15.5	**0.000480 J**	0.000610	0.000980 JL*	0.000240 J	0.000880	0.000120 J	0.000310 J	**0.0007148**
MW-70	MW-70:0-02022021	02/02/2021	0.0	**0.00937**	0.0115	0.0192	0.00584	0.0219	0.00209	0.00704	**0.014156**
	MW-70:4.3-02022021	02/02/2021	4.3	**0.00711 JL***	0.00800 JL*	0.00772 JL*	0.00345 J*	0.0109 JL*	0.00177 JL*	0.00609 JL*	**0.009922**
	MW-70:8-02022021	02/02/2021	8.0	**0.00167**	0.00293	0.00235	0.000810	0.00335	0.000370 J	0.00127	**0.0024765**
	MW-70:15-02022021	02/01/2021	15.0	**0.000170 J**	0.000400 J	0.000390 JL*	<0.000100	0.000730 JH*	<0.000100	0.000190 J	**0.0002853**
MW-71	MW-71:1.5-02042021	02/04/2021	1.5	**0.0135 J**	0.0104 J	—	—	<0.00530	<0.00400	—	**0.0147665**
	MW-71:5.0-02042021	02/04/2021	5.0	<0.00460	<0.00510	—	—	<0.00490	<0.00360	—	ND
	MW-71:8.5-02042021	02/04/2021	8.5	**0.00970 J**	<0.00480	—	—	<0.00450	0.00440 J	—	**0.0104025**
	MW-71:15.5-02042021	02/04/2021	15.5	**0.000120 J**	0.000240 J	0.000290 JL*	0.000180 J	0.000730 JH*	<0.000100	0.000100 J	**0.0002133**
MW-72	MW-72:1-022022021	02/02/2021	1.0	<0.00580	<0.00650	—	—	<0.00620	<0.00460	<0.00770	ND
	MW-72:5-022022021	02/02/2021	5.0	<0.00580	<0.00650	—	—	<0.00610	<0.00460	<0.00770	ND
	MW-72:10.9-022022021	02/02/2021	10.9	<0.00580	<0.00650	—	—	<0.00610	<0.00460	<0.00770	ND
MW-73	MW-73:3.2-02022021	02/02/2021	3.2	**0.00819**	0.00636	0.00795	0.00364	0.0161	0.00227	0.00814	**0.011187**
	MW-73:7-02022021	02/02/2021	7.0	**0.00143 J, D**	0.00729 D	0.00151 J, D	<0.00101	0.0561 J, D	<0.00105	<0.000880	**0.003018**
	MW-73:11-02022021	02/02/2021	11.0	<0.000870	0.00204 J, D	0.000810 J, D	<0.00101	0.00864 D	0.00123 J, D	0.000970 J, D	**0.0010769**
	MW-73:15-02022021	02/02/2021	15.0	**0.000190 J**	0.000870	0.000300 J	0.000100 J	0.00373	<0.000100	<0.0000900	**0.0003638**
	MW-73:17.7-02022021	02/02/2021	17.7	<0.0000900	<0.0000700	<0.0000700	<0.000100	<0.0000700	<0.000100	<0.0000900	ND
MW-74	MW-74:3-02022021	02/02/2021	3.0	**0.000960**	0.00176	0.000940	0.000480 J	0.00340	0.000220 J	0.000420 J	**0.001376**
	MW-74:6-02022021	02/02/2021	6.0	**0.000180 J**	0.000710	0.000300 J	0.000160 J	0.00132	0.000120 J	0.000330 J	**0.0003552**
	MW-101:10.3-02022021 (DUP)	02/02/2021	10.3	**0.000690 J***	0.000820 J*	0.000810 J*	0.000440 J*	0.00170 J*	0.000130 J	0.000520 J*	**0.000979**
	MW-74:10.3-02022021	02/02/2021	10.3	**0.000290 J***	0.000400 J*	0.000460 J*	0.000250 J*	0.000930 J*	<0.000100	0.000230 J*	**0.0004383**

Table 14: Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	cPAHs (mg/kg) 8270E/8270ESIM							
				Benzo(a)pyrene 0.000016 (0.0005)	Benzo(a)anthracene 110	Benzo(b)fluoranthene 230*	Benzo(k)fluoranthene 230*	Chrysene 110	Dibenzo(a,h)anthracene 12	Indeno(1,2,3-cd)pyrene 34	Total cPAH TEQ 0.000016
MW-76	MW-76:1.5-01262021	01/26/2021	1.5	**0.000130 J**	0.000210 J	0.000280 J	<0.000100	0.000410 J	<0.000100	0.000140 J	**0.0002071**
	MW-100:5.0-01262021 (DUP)	01/26/2021	5.0	**0.0102**	0.0152 J*	0.0131	0.00528	0.0213	0.00206	0.00771	**0.014748**
	MW-76:5.0-01262021	01/26/2021	5.0	**0.00634**	0.00789 J*	0.00913	0.00345	0.0131	0.00124	0.00463	**0.009105**
	MW-76:15.5-01262021	01/26/2021	15.5	**0.00164**	0.00292	0.00207 JL*	0.000970	0.00433	0.000280 J	0.00126	**0.0024333**
Equipment Blank Samples[1]	EB-1-11052020	11/05/2020	EB	<0.0000600	<0.0000500	<0.0000900	<0.0000900	<0.0000600	<0.0000900	<0.0000800	ND
	EB-2-11062020	11/06/2020	EB	<0.0000600	<0.0000500	<0.0000900	<0.0000900	<0.0000600	<0.0000900	<0.0000800	ND
	EB-3-11062020	11/06/2020	EB	<0.0000600	<0.0000500	<0.0000900	<0.0000900	<0.0000600	<0.0000900	<0.0000800	ND

NOTES:

Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

1 Equipment blank sample results presented in mg/L.
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
B* Result is included in the same preparatory batch as a blank detection for the associated analyte. Result is considered non-detect. Flag applied by Shannon & Wilson (*).
D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
E Reported result exceeded the instrument's upper calibration limit. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*)
JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).
Q Laboratory quality control failure reported that may affect the data quality. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
bgs = below ground surface; cPAH = carcinogenic polycyclic aromatic hydrocarbon; DUP = field duplicate; EB = equipment blank; mg/kg = milligrams per kilogram; mg/L = milligrams per liter; TEQ = toxicity equivalent quotient

Table 15: Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other PAHs (mg/kg) 8270E/8270ESIM												
				1-Methylnaphthalene 2.3	2-Methylnaphthalene 0.039	Acenaphthene 0.028	Acenaphthylene NA	Anthracene 0.051	Benzo(g,h,i) perylene 31	Benzo(j) fluoranthene NA	Dibenzofuran 0.029	Fluoranthene 0.090	Fluorene 0.029	Naphthalene 0.0021 (0.005)	Phenanthrene 100	Pyrene 0.14
SB-2020-001	SB-2020-001:2.2-11032020	11/03/2020	2.2	0.00450	0.00503	0.000240 J	0.000290 J	0.00237	0.00324	0.00171 J	0.00252	0.00903	0.000780	**0.0256**	0.0136	0.0120
	SB-2020-001:6.8-11032020	11/03/2020	6.8	0.00249	0.00229	0.000110 J	0.000160 J	0.000790	0.000450 J	0.000220 J	0.00223	0.0351	0.000380 JH*	0.00112	0.00959	0.0263
SB-2021-002	SB-2021-002:3-01282021	01/28/2021	3.0	0.00999	0.0111	0.00381	0.00333	0.0072	0.0129	0.00515	0.00816	0.0475	0.00683	**0.0208**	0.0394	0.0438
	SB-2021-002:6-01282021	01/28/2021	6.0	0.000460 J	<0.000540 B*	0.000100 J	<0.0000600	0.0000700 J*	0.000180 J*	<0.0000900	0.000420 J	0.000560 J*	0.000120 J*	0.000500 J	0.00119	0.000690 J*
	SB-2021-105:6-01282021 (DUP)	01/28/2021	6.0	0.000520	<0.000560 B*	0.000150 J	<0.0000600	0.000150 J*	0.000370 J*	0.000170 J	0.000340 J	0.00138 J*	0.000210 J*	0.000570 J	0.00160	0.00160 J*
SB-2021-003	SB-2021-003:2-01262020	01/26/2021	2.0	0.0134	0.0113	<0.0000900	0.000640	0.00120	0.00503	0.00360	0.00590Q	0.0188	<0.0000700	**0.00603**	0.0304Q	0.0210
	SB-2021-003:10.3-01262020	01/26/2021	10.3	0.00337	0.00356	0.000410 J	0.000110 J	0.000540	0.00117	0.000420 J	0.00143Q	0.00245	0.000470 J	**0.00256**	0.00654Q	0.00283
	SB-2021-003:11.5-01262020	01/26/2021	11.5	0.000610	0.000670	0.000130 J	<0.0000600	0.000130 J	0.000530	<0.000100	0.000270 J	0.000520	0.000140 J	0.000490 J	0.00269Q	0.000770
SB-2020-004	SB-2020-004:2.5-11062020	11/06/2020	2.5	0.0135	0.0117	<0.0000800	0.000520	0.00246	0.00653	0.00250	0.00634	0.0226	0.00443	**0.00776**	0.0288	0.0198
	SB-2020-004:8-11062020	11/06/2020	8.0	0.0387	0.0343	0.0202	0.00249	0.00939	0.00617	0.00164 J	0.0219	0.0231	0.0206	**0.0578**	0.0601	0.0405
	SB-2020-004:13-11062020	11/06/2020	13.0	0.000560	0.000470 J	<0.000480 B*	<0.0000600	<0.0000700	0.000160 J	<0.0000900	0.000220 J	0.000450 J	0.000190 J	0.000570 J	0.00203	0.000680
	SB-2020-004:17-11062020	11/06/2020	17.0	0.000360 J*	0.000300 J*	0.0124 J*	0.0000600 J*	0.000800 JH*	0.000110 J*	<0.0000800	0.000280 J*	0.000390 J*	0.00140 J*	**0.00498**	0.0113 J*	0.000430 J*
	SB-2020-101:17-11062020 (DUP)	11/06/2020	17.0	0.000880 J*	0.000570 J*	**0.0319 J***	0.000100 J*	0.00284 J*	0.000220 J*	<0.0000900	0.000960 J*	0.00255 J*	0.00484 J*	**0.00596**	0.0250 J*	0.00179 J*
	SB-2020-004:21-11062020	11/06/2020	21.0	0.00174	0.00139	**0.115**	0.000330 J	0.0127	0.000410 J	0.000200 J	0.00118	0.0131	0.0102	**0.00551**	0.105	0.00771
	SB-2020-004:27-11062020	11/06/2020	27.0	0.00168	0.00253	**0.107**	0.000310 J	0.00726	0.000190 J	<0.0000800	0.00264	0.0246	0.00862	**0.0116**	0.0721	0.0159
SB-2020-005	SB-2020-005:1-11042020	11/04/2020	1.0	0.00246	0.00221	<0.0000900	0.000100 J	0.000640	<0.00131 B*	<0.000500 B*	0.00109	0.00272 JH*	<0.0000700	0.00123	0.0122	0.00414 JH*
	SB-2020-005:6-11042020	11/04/2020	6.0	0.0159	0.0147	0.00581	0.00222	0.0101	0.00989	0.00425	0.0106	0.0319	0.00880	**0.0109**	0.0361	0.0286 B
	SB-2020-005:12-11042020	11/04/2020	12.0	0.000610	0.000500 J	0.000150 J	<0.0000600	0.000170 J	<0.000910 B*	<0.000500 B*	0.000190 J	<0.00139 B*	0.000180 J	<0.000440	0.00202	<0.00157 B*
	SB-2020-005:20-11042020	11/04/2020	20.0	0.00454	0.00471	0.00316	0.00160	0.0101	0.0201 JH*	0.0122	0.00332 JH*	0.0491	0.00491	**0.00400**	0.0345	0.0492

Table 15: Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other PAHs (mg/kg) 8270E/8270ESIM												
				1-Methylnaphthalene 2.3	2-Methylnaphthalene 0.039	Acenaphthene 0.028	Acenaphthylene NA	Anthracene 0.051	Benzo(g,h,i) perylene 31	Benzo(j) fluoranthene NA	Dibenzofuran 0.029	Fluoranthene 0.090	Fluorene 0.029	Naphthalene 0.0021 (0.005)	Phenanthrene 100	Pyrene 0.14
SB-2021-006	SB-2021-006:1.5-01292021	01/29/2021	1.5	0.0106	0.00990	0.000690	0.000240 J	0.000520	0.00689	0.00395	0.00116	0.0117	0.000610	**0.00304**	0.00907	0.0146
	SB-2021-006:6-01292021	01/29/2021	6.0	0.0215	0.0201	0.00112	0.000260 J	0.000220 J	0.000220 J	0.000230 J	0.00100	0.00131	0.00129	**0.00586 JL***	0.00493	0.00131
	SB-2021-006:10-01292021	01/28/2021	10.0	**34.3**	**29.1**	**4.23**	0.520	**0.629**	0.0218 J	0.0288	**0.882**	**0.472**	**6.11**	**3.87**	13.4	**1.40**
	SB-2021-006:20-01292021	01/29/2021	20.0	0.000950	0.00209	0.00148	<0.0000600 J*	0.000100 J	<0.0000800	<0.000100	<0.000130 J*	<0.000500 B*	0.000380 J	0.00113	0.000790	<0.000510 B*
SB-2020-007	SB-2020-007:1.2-2.8-11042020	11/04/2020	1.2-2.8	0.00876	0.00737	<0.0000900	0.000270 J	0.00139	<0.000960 B*	<0.000640 B*	0.00337	0.00347 JH*	<0.0000700	**0.00340**	0.0159	0.00472 JH*
	SB-2020-007:10-10.9-11042020	11/04/2020	10.0-10.9	0.00741	0.00783	0.00515	0.00220	0.00847	0.0107	0.00412	0.00607	0.0307	0.00711	**0.00917**	0.0223	0.0284 B
	SB-2020-007:20-21.4-11042020	11/04/2020	20.0-21.4	0.0163	0.0164	0.00428	0.00453	0.00639	0.00603 JH*	0.00257	0.00723 JH*	0.0190	0.00453	**0.0123**	0.0246	0.0212
	SB-2020-007:23-24.6-11042020	11/04/2020	23-24.6	0.00546	0.00561	0.00621	0.00243	0.00622	0.00752 JH*	0.00281	0.00567 JH*	0.0269	0.00825	**0.00987**	0.0195	0.0224
	SB-2020-007:6-7-11042020	11/04/2020	6.0-7.0	0.00721	0.00694	0.00382	0.00186	0.00336	0.00634	0.00281	0.00520	0.00948	0.00520	**0.00634**	0.0215	0.0171 B
SB-2020-008	SB-2020-008:2-11052020	11/05/2020	2.0	0.00222	0.00218	0.000280 J	0.000130 J	0.000400 J	0.00171	0.000570	0.000910	0.00254	0.000160 J	0.00177	0.00405	0.00246
	SB-2020-008:5.5-11052020	11/05/2020	5.5	0.00230	0.00202	0.000390 J	0.000220 J	0.00117	0.00378	0.00143	0.00137	0.00576	0.000240 J	0.00169	0.00726	0.00600
	SB-2020-008:11.5-11052020	11/05/2020	11.5	0.00622	0.00642	0.00102	0.000490 J	0.00187	0.00223	0.000700	0.00316	0.00650	0.000820	**0.00531**	0.0154	0.00655
	SB-2020-008:20-11052020	11/05/2020	20.0	0.0102	0.0117	0.00373	0.000620	0.00496	0.00379 JH*	0.00165	0.00600 JH*	0.0150	0.00359	**0.00956**	0.0166	0.0139
SB-2021-009	SB-2021-009:2-01252021	01/25/2021	2.0	0.000280 J	0.000290 J	<0.0000900	<0.0000600	<0.0000700	0.000230 J	0.000160 J	<0.000130	<0.000500 B*	<0.0000700	<0.000440	0.000800Q	0.000550
	SB-2021-009:6-01252021	01/25/2021	6.0	0.000140 J	0.000180 J	<0.0000900	<0.0000600	<0.0000700	<0.0000800	<0.000100	<0.000130	<0.000500 B*	<0.0000700	<0.000440	0.000520Q	0.000530
	SB-2021-009:10.8-01252021	01/25/2021	10.8	0.000370 J	0.000450 J	<0.0000900	<0.0000600	<0.0000700	0.000160 J	<0.000100	0.000150 J	<0.000500 B*	<0.0000700	0.000510 J	0.000800Q	0.000540
SB-2021-010	SB-2021-010:1.5-01282021	01/28/2021	1.5	0.000490 J	<0.000540 B*	0.000200 J	0.000140 J	0.000210 J	0.00163	0.000650Q	0.000220 J	0.00238	0.000130 J	0.000550 J	0.00369	0.00291
	SB-2021-010:6-01282021	01/28/2021	6.0	0.00106	0.00102 JH*	0.000110 J	0.000140 J	0.000150 J	0.00326	0.000800Q	0.000550	0.00159	0.0000900 J	0.000730	0.00272	0.00175
	SB-2021-104:6-01282021 (DUP)	01/28/2021	6.0	0.000830	0.000760 JH*	<0.0000900	0.000150 J	0.000150 J	0.00220	0.000740Q	0.000420 J	0.00148	0.0000800 J	0.000620	0.00234	0.00169
	SB-2021-010:11-01282021	01/28/2021	11.0	0.000390 J	<0.000500 B*	0.000130 J	0.0000600 J	0.000230 J	0.000470 J	0.000120 J	0.000170 J	0.000370 J	0.0000700 J	<0.000430	0.00206	0.000630

Table 15: Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other PAHs (mg/kg) 8270E/8270ESIM												
				1-Methylnaphthalene 2.3	2-Methylnaphthalene 0.039	Acenaphthene 0.028	Acenaphthylene NA	Anthracene 0.051	Benzo(g,h,i) perylene 31	Benzo(j) fluoranthene NA	Dibenzofuran 0.029	Fluoranthene 0.090	Fluorene 0.029	Naphthalene 0.0021 (0.005)	Phenanthrene 100	Pyrene 0.14
SB-2021-011	SB-2021-011:1-01252021	01/25/2021	1.0	0.00862	0.0132	0.00124 J*	0.000760 JL*	0.00322	0.0123 J*	0.00733 D	0.0204Q	**0.115 D**	<0.0000700	**0.0233 J***	0.0943Q, D	0.0721 D
	SB-2021-101:1-01252021 (DUP)	01/25/2021	1.0	0.00735	0.00857	0.00233 J*	0.00110	0.00349	0.00704 J*	0.00547 D	0.0155Q	**0.0972 D**	<0.0000700	**0.0109 J***	0.113Q, D	0.0630 D
	SB-2021-011:3-01252021	01/25/2021	3.0	0.0290 D	**0.0457 D**	0.00236	0.00399	0.0132 D	0.0765 E	0.0397 D	0.0203Q	**0.211 D**	0.00230	**0.0380 D**	0.151Q, D	**0.201 D**
	SB-2021-011:10-01252021	01/25/2021	10.0	0.00250	0.00249	0.000340 J	0.000200 J	0.000800	0.00542	0.00130	0.000980Q	0.00428	0.000350 J	**0.00209**	0.00611Q	0.00577
SB-2021-012	SB-2021-012:2-01252021	01/25/2021	2.0	0.000370 J	0.000420 J	<0.0000900	<0.0000600	0.000820	0.00153	0.00118	0.000330 J	0.00633	<0.0000700	<0.000440	0.00424Q	0.00488
	SB-2021-012:3.4-01252021	01/25/2021	3.4	0.00840	0.00769	0.00157	0.000590	0.00322	0.00489	0.00208	0.00472Q	0.0167	0.00375	**0.00512**	0.0203Q	0.0145
	SB-2021-012:10.4-01252021	01/25/2021	10.4	0.000330 J	0.000340 J	<0.0000900	<0.0000600	0.0000900 J	0.000290 J	0.000110 J	<0.000130	0.000510 JH*	<0.0000700	0.000480 J	0.00119Q	0.000670
SB-2020-013	SB-2020-013:1.5-11052020	11/05/2020	1.5	0.000240 J	0.000340 J	0.000150 J	0.000240 J	0.000620	0.00724	0.00576	0.000150 J	0.00494	0.000180 J	<0.000440	0.00182	0.00601
	SB-2020-013:6-11052020	11/05/2020	6.0	0.00308	0.00410	0.000250 J	0.000170 J	0.000400 J	0.00225	0.00120	0.00131	0.00301	0.000150 J	**0.00336**	0.00476	0.00348
	SB-2020-013:11.5-11052020	11/05/2020	11.5	0.00238	0.00258	0.000820	0.000350 J	0.00191	0.00220	0.00114	0.00214	0.0127	0.00141	0.00182	0.00660	0.00981
	SB-2020-013:20.5-11052020	11/05/2020	20.5	0.00943	0.0104	**0.0452**	0.00405	0.0196	0.0170 JH*	0.0103	0.00995 JH*	0.0886	0.0169	**0.0164**	0.0656	0.0786
	SB-2020-013:23-11052020	11/05/2020	23.0	0.00806	0.00906	0.00895	0.00122	0.00550	0.00338 JH*	0.00161	0.00683 JH*	0.0254	0.00658	**0.00751**	0.0165	0.0198
SB-2020-014	SB-2020-014:1.5-11052020	11/05/2020	1.5	0.00407	0.00387	0.000870	0.000330 J	0.00211	0.00483	0.00189	0.00222	0.00781	0.000840	**0.00238**	0.0100	0.00772
	SB-2020-014:7-11052020	11/05/2020	7.0	0.000240 J	0.000420 J	<0.0000900	0.0000800 J	<0.0000700	0.00199	0.000530	0.000200 J	0.00201	0.0000800 J	0.00100	0.00145	0.00134
	SB-2020-014:11-11052020	11/05/2020	11.0	0.00941	0.0133	0.00112 J*	0.000190 J	0.000260 J*	0.000820 JH*	0.000250 J	0.00226	0.00176	0.00549	**0.0920**	0.0254	0.00168
	SB-2020-100:11-11052020 (DUP)	11/05/2020	11.0	0.00857	0.0138	0.00129 J*	0.000240 J	0.000800 J*	0.000830 JH*	0.000320 J	0.00268	0.00264	0.00622	**0.0947**	0.0368	0.00196
	SB-2020-014:18-11052020	11/05/2020	18.0	0.000600 JH*	<0.000500 B*	0.000290 J	<0.0000600	0.000150 J	0.000270 JH*	<0.000100	0.000240 JH*	0.000900 JH*	0.000180 J	0.00181	0.00147 JH*	0.00112 JH*
	SB-2020-014:23-11052020	11/05/2020	23.0	<0.000500 B*	<0.000500 B*	<0.0000900	<0.0000600	<0.0000700	0.00334 JH*	0.000940	<0.000130	0.000940 JH*	<0.0000700	0.000500 J	<0.000500 B*	0.00106 JH*
SB-2020-015	SB-2020-015:1-11042020	11/04/2020	1.0	0.0547	**0.0641**	<0.0000900	0.000630	0.00291	0.0123	0.00352	0.0170	0.0126	0.000580	**0.0356**	0.0249	0.0155 B
	SB-2020-015:7-11042020	11/04/2020	7.0	0.000200 J	0.000250 J	<0.0000900	<0.0000600	<0.0000700	<0.000490 B*	<0.000490 B*	<0.000120	<0.000490 B*	<0.0000700	<0.000430	<0.000510 B*	<0.000490 B*
	SB-2020-015:13-11042020	11/04/2020	13.0	0.000530	0.000570	0.000120 J	<0.0000600	0.000110 J	<0.000490 B*	<0.000100	0.000230 J	<0.000490 B*	0.000300 J	<0.000430	0.00175	<0.000760 B*

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SB-2020-016	SB-2020-016:2-11042020	11/04/2020	2.0	0.000390 J	0.000410 J	<0.0000900	<0.0000600	0.000110 J	<0.000500 B*	<0.000500 B*	0.000250 J	<0.000730 B*	0.0000700 J	<0.000440	0.00221	<0.000960 B*
	SB-2020-016:7-11042020	11/04/2020	7.0	0.00165	0.000800	0.000190 J	0.0000900 J	0.000680	0.00220 JH*	<0.000930 B*	0.000610	0.00373	0.000360 J	0.000630	0.00387	0.00463 JH*
	SB-2020-016:12-11042020	11/04/2020	12.0	0.000800	0.000730	0.000220 J	<0.0000600	0.000110 J	0.00248 JH*	<0.000500 B*	0.000280 J	<0.000500 B*	0.000300 J	0.000500 J	0.00187	<0.000610 B*
SB-2021-017	SB-2021-017:2-01252021	01/25/2021	2.0	0.0184	0.0170	0.00219	0.000340 J	0.00611	0.00795	0.00457	0.00597Q	0.0261	0.00115	**0.00989**	0.0328Q	0.0297
	SB-2021-017:5-01252021	01/25/2021	5.0	0.000880	0.00105	<0.0000900	<0.0000600	0.000140 J	0.000240 J	0.000110 J	0.000390 J	0.000600 JH*	<0.0000700	0.000820	0.00164Q	0.000680
	SB-2021-017:10.5-01252021	01/25/2021	10.5	0.00265	0.00268	0.000270 J	0.0000900 J	0.000450 J	0.000570	0.000280 J	0.00103Q	0.00202	0.000350 J	0.00143	0.00510Q	0.00243
SB-2021-027	SB-2021-027:5.3-01282021	01/28/2021	5.3	0.0126	0.00709	0.00111	0.000210 J	0.00172	0.00102	0.000420 J	0.00302	0.00305	0.000790	**0.00283**	0.0126	0.00362
	SB-2021-027:10-01282021	01/28/2021	10.0	0.00511	0.00495	0.00530	0.000130 J	0.00109	0.000690	0.000360 J	0.00233	0.00343	0.00121	**0.0125**	0.00846	0.00358
	SB-2021-027:2.2-01282021	01/28/2021	2..2	0.0116	0.0104	0.00161	0.000360 J	0.00266	0.00195	0.00103	0.00489	0.00937	0.00189	**0.00479**	0.0201	0.00957
SB-2020-028	SB-2020-028:2.3-11032020	11/03/2020	2.3	0.0279	0.0262	0.00249	0.000790	0.00416	0.00651	0.00236 J	0.0136	0.0114	0.00284	**0.0159**	0.0354	0.0137
	SB-2020-028:6.8-11032020	11/03/2020	6.8	<0.000630 B*	<0.000500 B*	<0.0000900	<0.0000600	0.000140 J	0.000370 J	<0.000100	0.000310 J	<0.000500 B*	<0.000500 B*	<0.000440	0.00153 JH*	<0.000640 B*
SB-2020-029	SB-2020-029:3.2-11032020	11/03/2020	3.2	0.0648	**0.0819**	<0.0000900	0.00106	0.000960	0.00570	0.00257 J	0.0186	0.00918	0.00113	**0.0313**	0.0423	0.0445
	SB-2020-029:7.5-11032020	11/03/2020	7.5	<0.000500 B*	<0.000500 B*	<0.0000900	<0.0000600	0.0000800 J	0.000210 J	<0.000100	0.000310 J	<0.000500 B*	<0.000500 B*	<0.000440	0.00162 JH*	<0.000590 B*
SB-2021-038	SB-2021-038:2-01262021	01/26/2021	2.0	0.00199	0.00201	0.000250 J	0.000230 J	0.000460 J*	0.00303 JL*	0.00226 JL*	0.00114Q	0.00648 JL*	0.000160 J*	0.00147	0.0130Q	0.00725
	SB-2021-038:6.9-01262021	01/26/2021	6.9	0.00301	0.00352	0.000400 J	0.000550	0.000310 J	0.000380 J	0.000230 J	0.00109Q	0.00123	0.000210 J	0.00201	0.00390Q	0.00177
	SB-2021-038:7.6-01262021	01/26/2021	7.6	0.00161	0.00234	0.000390 J	0.000150 J	0.000960	0.00393	0.00253	0.000460 J	0.00801	0.000270 J	0.00114	0.00484Q	0.00967
	SB-2021-038:12.9-1262021	01/26/2021	12.9	0.000460 J	0.000730	0.000560	0.000160 JL*	0.000140 J	<0.0000800	<0.000100	0.000140 JL*	<0.000500 B*	0.000260 J	<0.000440	0.00317	<0.000500 B*
SB-2021-039	SB-2021-039:2-01252021	01/25/2021	2.0	0.000260 J	0.000300 J	<0.0000900	<0.0000600	0.0000900 J	0.000230 J	0.000110 J	<0.000130	0.000530 JH*	0.0000800 J	0.000580 J	0.00138Q	0.000580
	SB-2021-039:7.4-01252021	01/25/2021	7.4	0.0135	0.0204	0.0142	0.0287 D	0.00917	0.0164	0.00392 D	0.0125Q	0.0582 D	0.00738	**0.154 D**	0.0619Q, D	0.0691 D
	SB-2021-039:10.7-01252021	01/25/2021	10.7	0.000760	0.000790	0.000110 J	0.000130 J	0.000140 J	0.00229	0.000320 J	0.000310 J	0.00145	0.000250 J	0.00116	0.00226Q	0.00173

Table 15: Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other PAHs (mg/kg) 8270E/8270ESIM												
				1-Methylnaphthalene 2.3	2-Methylnaphthalene 0.039	Acenaphthene 0.028	Acenaphthylene NA	Anthracene 0.051	Benzo(g,h,i) perylene 31	Benzo(j) fluoranthene NA	Dibenzofuran 0.029	Fluoranthene 0.090	Fluorene 0.029	Naphthalene 0.0021 (0.005)	Phenanthrene 100	Pyrene 0.14
SB-2021-040	SB-2021-040:2-01282021	01/28/2021	2.0	0.000460 J	<0.000490 B*	0.000260 J	0.000120 J	0.00144	0.00347	0.00213Q	0.000270 J	0.00932	0.000300 J	0.000510 J	0.00590	0.0101
	SB-2021-040:5-01282021	01/28/2021	5.0	0.00595	0.00573	<0.0000900	0.000200 J	0.00109	0.00276	0.000850Q	0.00248	0.00447	<0.0000700	**0.00344**	0.0118	0.00522
	SB-2021-040:10.4-01282021	01/28/2021	10.4	0.0118	0.0124	0.00304	0.00366	0.00284	0.00691	0.00190Q	0.00677	0.0167	0.00302	**0.0285**	0.0270	0.0173
	SB-2021-040:13.7-01282021	01/28/2021	13.7	0.000480 J	0.000510	0.000180 J	<0.0000600 J*	0.0000700 J	0.0000900 J	<0.000100	0.000190 JL*	<0.000500 B*	0.000230 J	<0.000440	0.00131	<0.000530 B*
SB-2021-041	SB-2021-041:2-01282021	01/28/2021	2.0	0.000240 J	<0.000500 B*	<0.0000900	<0.0000600	<0.0000700	<0.0000800	<0.000100	<0.000130	0.000230 J	<0.0000700	<0.000440	0.000540	0.000250 J*
	SB-2021-106:2-01282021 (DUP)	01/28/2021	2.0	0.000340 J	0.000390 J	<0.0000900	<0.0000700	<0.0000800	<0.0000900	0.000100 J	0.000140 J	0.000380 J	<0.0000700	<0.000460	0.000710	0.000480 J*
	SB-2021-041:6-01282021	01/28/2021	6.0	0.000460 J	<0.000550 B*	<0.0000900	<0.0000600	0.0000900 J	0.000300 J	0.000230 J	0.000240 J	0.000910	0.0000800 J	<0.000430	0.00132	0.00104
	SB-2021-041:10.5-01282021	01/28/2021	10.5	0.00165	0.00178	0.000400 J	0.000140 J	0.000240 J	0.00127	0.000710	0.000910	0.00246	0.000660	0.00165	0.00536	0.00254
	SB-2021-041:13.3-01282021	01/28/2021	13.3	0.000550	0.000530	<0.0000900	<0.0000600 J*	0.000100 J	0.000120 J	<0.000100	0.000220 JL*	<0.000500 B*	0.000180 J	<0.000440	0.00172	<0.000500 B*
SB-2021-042	SB-2021-042:11-01292021	01/29/2021	11.0	0.00138 J*	0.00185 J*	0.000180 J	0.000120 J	0.000210 J	0.00130	0.000730 J*	0.000750 J*	0.00189	0.000120 J	0.00115 J*	0.00243	0.00200
	SB-2021-106:11-01292021 (DUP)	01/29/2021	11.0	0.000620 J*	0.000690	0.000150 J	0.000160 J	0.000270 J	0.00162	0.00129 J*	0.000390 J*	0.00204	0.000110 J	0.000560 J*	0.00219	0.00221
SB-2021-043	SB-2021-043:9.5-01292021	01/29/2021	9.5	0.0114	0.0109	0.000480 J	0.000130 J	0.000130 J	0.000470 J	0.000290 J	0.000560	0.00101	0.000490 J	**0.00341**	0.00228	0.00113
SB-2021-044	SB-2021-044:12-02052021	02/05/2021	12.0	0.00128	0.00102	0.000320 J	<0.0000600	0.00176	0.00492	0.00270Q	0.000790	0.0101	0.000320 J	0.000640	0.00757	0.0124
SB-2020-045	SB-2020-045:2.8-11032020	11/03/2020	2.8	0.00313	0.00302	0.000520	0.000230 J	0.000970	0.000990	0.000550 J	0.00165	0.00372	0.000610 JH*	0.00170	0.00627	0.00501
	SB-2020-045:7.2-11032020	11/03/2020	7.2	<0.000500 B*	<0.000500 B*	<0.0000900	<0.0000600	<0.0000700	0.000130 J	<0.000100	0.000220 J	<0.000500 B*	<0.0000700	<0.000440	0.00138 JH*	<0.000500 B*
SB-2021-046	SB-2021-046:2-01262021	01/26/2021	2.0	0.000980	0.00101	<0.0000900	<0.0000600	0.000100 J	0.000360 J	0.000260 J	0.000370 J	0.000880	<0.0000700	0.000780	0.00134Q	0.00109
	SB-2021-046:5.6-01262021	01/26/2021	5.6	0.00423	0.00449	0.00240	0.000420 J	0.00259	0.0102	0.00168	0.00252Q	0.0115	0.00277	**0.00270**	0.0141Q	0.0133
	SB-2021-046:10.7-01262021	01/26/2021	7.0	0.0319	0.0300	0.00790	0.00184	0.0105	0.00561	0.00269	0.0131Q	0.0225	0.00811	**0.0211**	0.0391Q	0.0219
	SB-2021-046:13.9-1262021	01/26/2021	13.9	0.00107	0.00111	0.000120 J	0.0000700 JL*	0.000120 J	0.000240 J	0.000110 J	0.000420 JL*	<0.000670 B*	0.000200 J	0.000530 J	0.00261	<0.000870 B*
SB-2021-047	SB-2021-047:1.5-02022021	02/02/2021	1.5	<0.000110	<0.000130	<0.0000900	<0.0000600	<0.0000700	0.000140 J	<0.000100	<0.000130	0.000210 J	<0.0000700	<0.000440	0.000210 J	0.000220 J
	SB-2021-047:7.1-02022021	02/02/2021	7.1	0.00673	0.00676	0.00151	0.00190	0.00210	0.00347	0.00202	0.00417	0.0138	0.00209	**0.00577**	0.0160	0.0135
	SB-2021-047:10.5-02022021	02/02/2021	10.5	0.000320 J	0.000400 J	<0.0000900	<0.0000600 J*	<0.0000700	0.000150 J	<0.000100	0.000150 JL*	<0.000500 B*	<0.0000700	<0.000440	0.000830	<0.000500 B*
SB-2021-065	SB-2021-65:11.9-02022021	02/02/2021	11.9	0.00408	0.00475	0.00153	0.000820 JL*	0.00266	0.00730	0.00304	0.00283 JL*	0.0193 B	0.00295	**0.00398**	0.0154	0.0186
	SB-2021-065:13-02022021	02/02/2021	13.0	0.00859	0.00945	0.00211	0.00125	0.00252	0.00584	0.00209Q	0.00252	0.00607	0.00288	**0.00535**	0.00945	0.0162
SB-2021-068	SB-2021-068:1.0-01262021	01/26/2021	1.0	<0.268	<0.0782	<0.0476	<0.0591	<0.0516	0.102 J	—	**<0.176**	**<0.0494**	**<0.0473**	**<0.0793**	<0.0821	—
	SB-2021-068:5.5-01262021	01/26/2021	5.5	<0.269	<0.0783	<0.0477	<0.0592	**0.0614 J**	0.112 J	—	**<0.177**	**<0.0495**	**<0.0474**	**<0.0794**	<0.0822	—

Table 15: Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other PAHs (mg/kg) 8270E/8270ESIM												
				1-Methylnaphthalene 2.3	2-Methylnaphthalene 0.039	Acenaphthene 0.028	Acenaphthylene NA	Anthracene 0.051	Benzo(g,h,i) perylene 31	Benzo(j) fluoranthene NA	Dibenzofuran 0.029	Fluoranthene 0.090	Fluorene 0.029	Naphthalene 0.0021 (0.005)	Phenanthrene 100	Pyrene 0.14
MW-10R	MW-10R:2-02052021	02/05/2021	2.0	0.00150	0.00139	<0.0000900	<0.0000600	0.000570	0.000940	0.000380 J	0.000830	0.00203	0.000360 J	0.000720	0.00388	0.00250
	MW-10R:5.4-02052021	02/05/2021	5.4	0.00167	0.00208	<0.0000900	<0.0000600	0.000360 J	0.000730	0.000210Q, J	0.00116	0.00157	<0.0000700	**0.00233**	0.00472	0.00179
	MW-104:9-02052021 (DUP)	02/05/2021	9.0	0.00426	0.00616	0.00166	0.00256	0.00193	0.00728 J*	0.00215 J*	0.00438 J*	0.0173 J*	0.00295 J*	**0.0206 J***	0.0174 J*	0.0168 J*
	MW-10R:9-02052021	02/05/2021	9.0	0.00175	0.00223	0.000440 J	0.000340 J	0.000770	0.00212 J*	0.000570 J*	0.00120 J*	0.00475 J*	0.000710 J*	**0.00431 J***	0.00555 J*	0.00422 J*
	MW-10R:15-02052021	02/05/2021	15.0	0.00138	0.00134	0.000210 J	<0.0000600 J*	0.000160 J	0.000280 J	0.000130 J	0.000490 JL*	<0.000620 B*	0.000220 J	0.000740	0.00261	<0.00105 B*
MW-22R	MW-22R:1.0-02032021	02/03/2021	1.0	<0.000520 B*	<0.000560 B*	0.000230 J	<0.0000600	0.000100 J	0.00635	0.000620	0.000240 J	0.00195	0.000130 J	0.000440 J	0.00185	0.00378
	MW-22R:5.5-02032021	02/03/2021	5.5	0.00790	0.00774	0.00595	0.000910	0.00684	0.0130	0.00351	0.00585	0.0220	0.00744	**0.00539**	0.0245	0.0228
	MW-22R:9.0-02032021	02/03/2021	9.0	0.00972	0.0128	0.00987	0.0113	0.00375	0.00724	0.00354	0.00947	0.0246	0.00904	**0.0487**	0.0338	0.0244
	MW-22R:15.5-02032021	02/03/2021	15.5	0.00808 D	0.00824 D	0.00856 D	0.00371 D	<0.000220	0.00534 D	0.00248Q, D	0.00630 D	0.0178 D	0.0128 D	**0.0161 D**	0.0324 D	0.0212 D
	MW-22R:20.5-02032021	02/03/2021	20.5	<0.000500 B*	<0.000500 B*	0.00100	0.000150 J	<0.0000700	0.000180 J	0.000130 J	0.000260 J	0.000980	0.00197	<0.000440	0.00492	0.00169
MW-53	MW-53:1-02032021	02/03/2021	1.0	0.00823	0.00932	<0.0000900	0.000790	0.00194	0.00438	0.00294	0.00313	0.00624	0.000240 J	**0.00556**	0.00786	0.00609
	MW-53:9.5-02032021	02/03/2021	9.5	0.00939	0.0108	0.000720	0.000770	0.00220	0.00517	0.00280	0.00328	0.00627	0.000480 J	**0.00666**	0.00749	0.00620
	MW-53:11-02032021	02/03/2021	11.0	0.0263	0.0325	0.00234	0.00120	0.00375	0.00810	0.00230Q	0.00875	0.0104	0.00217	**0.0189**	0.0139	0.0106
	MW-53:15.8-02032021	02/03/2021	15.8	0.00318	0.00344	0.00216	0.00103 JL*	0.00301	0.00350	0.00180	0.00229 JL*	0.0150 B	0.00277	**0.00372**	0.00980	0.0141
MW-54	MW-54:1-02032021	02/03/2021	1.0	0.00106 JH*	0.00133 JH*	0.000510	0.000290 J	0.00105	0.00845	0.00674	0.000510	0.0119	0.000310 J	0.00149	0.00635	0.0167
	MW-102:5.5-02032021 (DUP)	02/03/2021	5.5	0.00221	0.00265	0.000870	0.000260 J	0.000750	0.00706	0.00468	0.000800	0.0107	0.000350 J	0.00165	0.00954	0.0147
	MW-54:5.5-02032021	02/03/2021	5.5	0.00155	0.00213	0.000240 J	0.0000900 J	0.000250 J	0.00439	0.000730	0.000510	0.00199	0.000320 J	0.00134	0.00644	0.00548
	MW-54:9-02032021	02/03/2021	9.0	<0.000490 B*	<0.000490 B*	0.000100 J	0.0000600 J	0.000120 J	0.000410 J	0.000350 J	0.000250 J	0.00110	<0.0000700	<0.000430	0.00206	0.00119
MW-55	MW-55:1.5-02032021	02/03/2021	1.5	0.000600 JH*	<0.000590 B*	<0.0000900	<0.0000600	0.000110 J	0.000380 J	0.000220 J	0.000210 J	0.00110	0.000100 J	<0.000440	0.00140	0.00126
	MW-55:5.5-02032021	02/03/2021	5.5	0.0104	0.0107	0.00483	0.00167	0.00660	0.00492	0.00204Q	0.00615	0.0214	0.00655	**0.00726**	0.0239	0.0181
	MW-55:9.5-02032021	02/03/2021	9.5	0.0167	0.0156	0.0131	0.00277	0.0134	0.00968	0.00647Q	0.0106	0.0437	0.0119	**0.0115**	0.0417	0.0453
	MW-55:15.5-02032021	02/03/2021	15.5	0.00183	0.00170	0.00151	0.000540 JL*	0.00122	0.00337	0.00143	0.000940 JL*	0.00855 B	0.00144	0.00108	0.0110	0.00935
MW-56	MW-56:1.0-02022021	02/02/2021	1.0	<0.00195 B*	<0.00282 B*	<0.0000900	<0.0000600	0.000580	0.00248	0.00111Q	0.000850	0.00376	0.000270 J	0.00173	0.00526	0.00484
	MW-56:5.5-02022021	02/02/2021	5.5	0.0112	0.0109	0.00460	0.00175	0.00599	0.00415	0.00207Q	0.00657	0.0209	0.00675	**0.00826**	0.0274	0.0176
	MW-101:8.0-02022021 (DUP)	02/02/2021	8.0	0.00804 J*	0.0122 J*	0.0109 J*	0.00810 J*	0.00669 J*	0.00632 J*	0.00253 J*	0.00799 J*	0.0355 J*	0.0123 J*	**0.0486 J***	0.0352 J*	0.0328 J*
	MW-56:8.0-02022021	02/02/2021	8.0	<0.000650 B*	<0.000730 B*	0.000430 J*	<0.0000600 J*	0.000280 J*	0.000280 J*	<0.000100 J*	0.000280 J*	0.000740 J*	0.000380 J*	0.000840 J*	0.00204 J*	0.000830 J*

Table 15: Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other PAHs (mg/kg) 8270E/8270ESIM												
				1-Methylnaphthalene 2.3	2-Methylnaphthalene 0.039	Acenaphthene 0.028	Acenaphthylene NA	Anthracene 0.051	Benzo(g,h,i) perylene 31	Benzo(j) fluoranthene NA	Dibenzofuran 0.029	Fluoranthene 0.090	Fluorene 0.029	Naphthalene 0.0021 (0.005)	Phenanthrene 100	Pyrene 0.14
MW-57	MW-57:5-01272021	01/27/2021	5.0	1.79	**2.18**	<0.000890	<0.000640	<0.000740	0.00808	0.00386 JQ	**0.0949Q**	0.0330	**0.125**	**0.254**	0.0725	0.0287
	MW-57:6-01272021	01/27/2021	6.0	0.00240	0.00326	<0.0000900	0.0000800 J	<0.0000700	<0.0000800Q	<0.000100	0.000280 J	0.000500	0.000300 J	0.00171	0.000700	0.000500 J
	MW-57:10-01272021	01/27/2021	10.0	0.0165	0.0197	0.00196	0.00114	0.00628	0.00854Q	0.00553	0.00330	0.0243	0.00300	**0.0110**	0.0186	0.0286
	MW-57:15.3-01272021	01/27/2021	15.3	0.00208	0.00236	0.000250 J	0.000120 JL*	0.000260 J	0.00154	0.000680	0.000610 JL*	<0.00212 B*	0.000290 J	0.00145	0.00349	0.00243 JH*
MW-58	MW-58:1.5-01272021	01/27/2021	1.5	0.00199	0.00223	<0.0000900	<0.0000600	0.000790	0.00300 J*	0.000980	0.00101	0.00428	<0.0000700	0.00129	0.00504 J*	0.00515 J*
	MW-58:5.5-01272021	01/27/2021	5.5	0.00221	0.00310	<0.0000900	<0.0000600	0.000450 J	0.000280 JQ	0.000290 J	0.000370 J	0.000920	<0.0000700	**0.00558**	0.00275	0.00102
	MW-58:8.4-01272021	01/27/2021	8.4	0.282	**0.361**	0.00820	<0.0000600	0.00755	0.00167Q	0.000750	0.00622	0.0103	0.0202	**0.524 E**	0.0390	0.0149
	MW-58:15-01272021	01/27/2021	15.0	0.0159	0.0313	0.000320 J	<0.0000600 J*	0.000130 J	0.000280 J	0.000170 J	0.000190 JL*	<0.000910 B*	0.000720	**0.0274**	0.00185	<0.00116 B*
MW-59	MW-59:1.0-02032021	02/03/2021	1.0	0.0670 D	**0.0787 D**	<0.0000900	0.000970	0.00939 D	0.0147	0.00929	0.0227	0.0326 D	0.000890	**0.0447 D**	0.0502 D	0.0356 D
	MW-59:6.5-02032021	02/03/2021	6.5	0.00177	0.00221	0.000160 J	0.0000700 J	0.000340 J	0.000810	0.000390 J	0.000670	0.00137	0.0000900 J	0.00156	0.00274	0.00177
	MW-59:9.5-02032021	02/03/2021	9.5	0.000590 JH*	<0.000640 B*	0.000110 J	0.0000700 J	0.000220 J	0.00256	0.00135	0.000340 J	0.00330	0.0000900 J	0.000670	0.00243	0.00416
MW-60	MW-60:1.5-02012021	02/01/2021	1.5	0.00398	0.00370	<0.0000900	0.000150 J	0.000320 J	0.00102	0.000670	0.00188	0.00387	<0.0000700	0.00130	0.0146	0.00481
	MW-60:5-02012021	02/01/2021	5.0	0.00416	0.00407	0.00116	0.000360 J	0.00109	0.00194	0.00101	0.00218	0.00789	0.00171	**0.00232**	0.0115	0.00772
	MW-60:9-02012021	02/01/2021	9.0	0.00530	0.00555	<0.0000900	0.000120 J	0.000390 J	0.000250 J	0.000250 J	0.00218	0.00232	<0.0000700	**0.00212**	0.00907	0.00314
MW-61	MW-61:1.5-02012021	02/01/2021	1.5	0.00824	0.00980	0.00105	0.000180 J	0.000420 J	0.00488	0.00127	0.00331	0.00543	0.000560	**0.00496**	0.0106	0.00551
	MW-61:6-02012021	02/01/2021	6.0	0.000200 J	0.000270 J	<0.0000900	0.0000700 J	<0.0000700	0.000670	0.000180 J	<0.000130	0.000280 J	<0.0000700	<0.000440	0.000570	0.000350 J
	MW-61:11-02012021	02/01/2021	11.0	0.000300 J	0.000310 J	0.000600	<0.0000600	0.0000700 J	<0.0000800	<0.000100	0.000160 J	0.000260 J	0.000180 J	0.000690	0.00137	0.000370 J
MW-62	MW-62:1-01272021	01/27/2021	1.0	0.00256	0.00249	<0.0000900	<0.0000600	0.000670	0.000630Q	0.000410 J	0.000950	0.00219	<0.0000700	0.00124	0.00505	0.00253
	MW-62:5-01272021	01/27/2021	5.0	0.000650	0.000710	<0.0000900	<0.0000600	0.000190 J	0.000400 JQ	0.000100 J	0.000310 J	0.000570	0.0000700 J	0.000520 J	0.00123	0.000640
	MW-62:8.6-01272021	01/27/2021	8.6	0.00449	0.00545	0.00232	0.00145	0.00688	0.0108Q	0.00664	0.00280	0.0292	0.00263	**0.0127**	0.0234	0.0340
	MW-62:15-01272021	01/27/2021	15.0	0.00160	0.00119	0.000210 J	<0.0000600 J*	0.000190 J	0.000430 J	0.000150 J	0.000460 JL*	<0.000970 B*	0.000170 J	0.000590 J	0.00282	0.00141 JH*
MW-64	MW-64:5.2-01282021	01/28/2021	5.2	0.00631	0.00595	<0.0000900	0.000120 J	0.000190 J	0.00113	0.000910	0.000720	0.00363	0.000310 J	0.00191	0.00608	0.00334
	MW-64:9.0-01282021	01/28/2021	9.0	0.00518	0.00495	0.000230 J	0.0000800 J	<0.0000700	<0.0000800	<0.000100	0.000380 J	0.000380 J	0.000240 J	0.00152	0.00231	0.000390 J
	MW-64:14.0-01282021	01/28/2021	14.0	0.00755	0.00712	0.000450 J	0.0000900 J	0.000140 J	0.000170 J	<0.000100	0.000390 J	0.000420 J	0.000560	**0.00221**	0.00173	0.000830
MW-65	MW-65:20-02052021	02/05/2021	2.0	0.00218	0.00287	0.00328	0.00281	0.00264	0.00282	0.00100Q	0.00182	0.0103	0.00228	**0.0101**	0.0114	0.0119
MW-66	MW-66:1.2-0112521	01/25/2021	1.2	0.0197	0.0233	<0.0000900	0.000230 J	0.00159	0.00238	0.00108	0.00635Q	0.00365	0.000260 J	**0.0120**	0.00908Q	0.00466
	MW-66:5.5-0112521	01/25/2021	5.5	0.000920	0.000880	<0.0000900	<0.0000600	0.000100 J	0.000150 J	<0.000100	0.000380 J	0.000490 JH*	<0.0000700	0.000460 J	0.00136Q	0.000480 J
	MW-66:10.0-0112521	01/25/2021	10.0	0.00546	0.00540	0.000960	0.000360 J	0.00284	0.00216	0.000990	0.00256Q	0.00763	0.00163	**0.00364**	0.0111Q	0.00694

Table 15: Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other PAHs (mg/kg) 8270E/8270ESIM												
				1-Methylnaphthalene 2.3	2-Methylnaphthalene 0.039	Acenaphthene 0.028	Acenaphthylene NA	Anthracene 0.051	Benzo(g,h,i) perylene 31	Benzo(j) fluoranthene NA	Dibenzofuran 0.029	Fluoranthene 0.090	Fluorene 0.029	Naphthalene 0.0021 (0.005)	Phenanthrene 100	Pyrene 0.14
MW-67	MW-67:0.5-01262021	01/26/2021	0.5	0.00335	0.00295	<0.0000900	0.000400 J	0.00225	0.0500	0.00624	0.00215	0.0123	0.000470 J	**0.00216**	0.0110	0.0124
	MW-67:5.5-01262021	01/26/2021	5.5	0.00597	0.00702	0.00231	0.000440 J	0.0125	0.0406	0.0130	**0.0345 J**	0.0604	0.00227	**0.00495**	0.0479	0.0681
	MW-67:9.0-01262021	01/26/2021	9.0	0.00243	0.00279	0.000380 J	0.000720	0.000830	0.00159Q	0.000570	0.00107	0.00281	0.000450 J	**0.0121**	0.00620	0.00328
	MW-67:16.0-01262021	01/26/2021	16.0	<0.0499	<0.00995	<0.00995	<0.00995	<0.00995	<0.0200	—	<0.0250	<0.00995	<0.00995	<0.00995	<0.00995	—
	MW-67:20.5-01262021	01/26/2021	20.5	<0.0499	<0.0100	<0.0100	<0.0100	<0.0100	<0.0200	—	<0.0250	<0.0100	<0.0100	<0.0100	<0.0100	—
MW-68	MW-68:8.5-02022021	02/02/2021	8.5	<0.0269	<0.00780	<0.00480	<0.00590	0.00690 J	0.0145 J	—	<0.0177	<0.00490	<0.00470	<0.00790	<0.00820	—
	MW-68:15.5-02022021	02/02/2021	15.5	0.00291	0.00337	0.000110 J	<0.0000600 J*	0.000320 J	0.000560	0.000210 J	0.000820 JL*	<0.000930 B*	0.000130 J	0.00186	0.00284	<0.00117 B*
MW-70	MW-70:0-02022021	02/02/2021	0.0	0.0208	0.0277	0.00121	<0.0000600	0.00173	0.00889	0.00513Q	0.00687	0.0130	0.000960	**0.0181**	0.0131	0.0176
	MW-70:4.3-02022021	02/02/2021	4.3	0.00899 JL*	0.0136 JL*	0.0100 JL*	0.00134 JL*	0.0128 JL*	0.0105 JL*	0.00348 J*	0.0130 JL*	0.0326 JL*	0.0155 JL*	**0.0131 JL***	0.0542 JL*	0.0244 JL*
	MW-70:8-02022021	02/02/2021	8.0	0.00612	0.0110	0.00695	0.000520	0.00605	0.00173	0.000810Q	0.00636	0.0145	0.00876	**0.0202**	0.0260	0.00979
	MW-70:15-02022021	02/01/2021	15.0	0.00100	0.00142	0.000960	<0.0000600 J*	0.000650	0.000340 J	0.000110 J	0.000890 JL*	<0.00159 B*	0.00109	**0.00339**	0.00459	0.00146 JH*
MW-71	MW-71:1.5-02042021	02/04/2021	1.5	—	—	<0.00410	<0.00510	0.00630 J	0.0211 J	—	—	<0.00430	—	—	—	—
	MW-71:5.0-02042021	02/04/2021	5.0	—	—	<0.00380	<0.00470	<0.00410	<0.00810	—	—	<0.00390	—	—	—	—
	MW-71:8.5-02042021	02/04/2021	8.5	—	—	0.00740 J	<0.00440	<0.00380	0.0162 J	—	—	<0.00360	—	—	—	—
	MW-71:15.5-02042021	02/04/2021	15.5	0.00191	0.000870	0.0208	<0.0000600 J*	0.000110 J	0.000220 J	0.000210 J	0.000810 JL*	<0.000500 B*	0.00295	**0.0102**	0.00180	<0.000590 B*
MW-72	MW-72:1-022022021	02/02/2021	1.0	<0.0269	<0.00780	<0.00480	<0.00590	<0.00520	<0.0102	—	<0.0177	<0.00490	<0.00470	**<0.00790**	<0.00820	—
	MW-72:5-022022021	02/02/2021	5.0	<0.0268	<0.00780	<0.00480	<0.00590	<0.00520	<0.0102	—	<0.0177	<0.00490	<0.00470	**<0.00790**	<0.00820	—
	MW-72:10.9-022022021	02/02/2021	10.9	<0.0268	<0.00780	<0.00480	<0.00590	<0.00520	<0.0102	—	<0.0176	<0.00490	<0.00470	**<0.00790**	<0.00820	—
MW-73	MW-73:3.2-02022021	02/02/2021	3.2	0.00948	0.0113	0.00387	0.000350 J	0.000920	0.0127	0.00327	0.00176	0.0107	0.00206	0.00185	0.0133	0.0173
	MW-73:7-02022021	02/02/2021	7.0	**3.88 D**	**4.35 D**	**0.225 D**	0.196 D	**0.0855 J, D**	0.00125 J, D	<0.000970	**0.541 D**	**0.145 D**	**1.04 D**	**0.102 J, D**	2.18 D	**0.377 D**
	MW-73:11-02022021	02/02/2021	11.0	0.441 D	**0.489 D**	**0.0282 D**	0.0149 D	0.0231 D	0.000940 J, D	<0.000970	**0.130 D**	0.0299 D	**0.182 D**	**0.0510 D**	0.278 D	**11.3**
	MW-73:15-02022021	02/02/2021	15.0	0.114 E	**0.138 E**	0.0167	0.00618	<0.0000700	<0.0000800	0.000100Q, J	0.0207	0.0147	**0.0418**	**0.00832**	0.0946 E	0.0428
	MW-73:17.7-02022021	02/02/2021	17.7	<0.00151 B*	<0.00162 B*	<0.0000900	<0.0000600	<0.0000700	<0.0000800	<0.000100Q,	0.000220 J	<0.0000800	0.000360 J	<0.000440	0.000980	<0.0000900
MW-74	MW-74:3-02022021	02/02/2021	3.0	0.00923	0.00936	0.00109	0.000170 J	0.00133	0.000450 J	0.000480 J	0.00305	0.00490	0.00129	**0.00390**	0.0112	0.00631
	MW-74:6-02022021	02/02/2021	6.0	0.00302	0.00339	<0.0000900	<0.0000600	0.000240 J	0.000120 J	0.000170 J	0.00151	0.00113	<0.0000700	0.00157	0.00574	0.00142
	MW-101:10.3-02022021 (DUP)	02/02/2021	10.3	0.00165 J*	0.00223 J*	0.000690 J*	0.000170 J*	0.000480 J*	0.000940 J*	0.000540 J*	0.00102 J*	0.00268 J*	0.000650 J*	**0.00273 J***	0.00427 J*	0.00263 J*
	MW-74:10.3-02022021	02/02/2021	10.3	0.000650 J*	0.000610 J*	0.000220 J*	0.0000600 J*	0.000210 J*	0.000340 J*	0.000270 J*	0.000350 J*	0.00108 J*	0.000240 J*	0.000520 J*	0.00248 J*	0.00117 J*

Table 15: Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other PAHs (mg/kg) 8270E/8270ESIM													
				1-Methylnaphthalene 2.3	2-Methylnaphthalene 0.039	Acenaphthene 0.028	Acenaphthylene NA	Anthracene 0.051	Benzo(g,h,i) perylene 31	Benzo(j) fluoranthene NA	Dibenzofuran 0.029	Fluoranthene 0.090	Fluorene 0.029	Naphthalene 0.0021 (0.005)	Phenanthrene 100	Pyrene 0.14
MW-76	MW-76:1.5-01262021	01/26/2021	1.5	0.000350 J	0.000360 J	0.000200 J	<0.0000600	<0.0000700	0.000230 J	<0.000100	0.0250 J	0.000320 J	0.000130 J	<0.000440	0.00103Q	0.000430 J
	MW-100:5.0-01262021 (DUP)	01/26/2021	5.0	0.0111	0.0115	**0.0314 J***	0.00169	0.0247	0.0211 J	0.00541	0.0216 J*	0.0807	**0.0357 J***	**0.0123**	0.0850 J*	0.0605
	MW-76:5.0-01262021	01/26/2021	5.0	0.00872	0.0113 J	**0.0596 J***	0.00166	0.0385	0.0162 J	0.00372	**0.0375 J***	**0.101**	**0.0680 J***	**0.00794**	0.331 J*	0.0618
	MW-76:15.5-01262021	01/26/2021	15.5	0.00400	0.00432	0.00627	0.000640 JL*	0.00387	0.00192	0.00105	0.00362 JL*	0.0158 B	0.00628	**0.00487**	0.0258	0.0131
Equipment Blank Samples[1]	EB-1-11052020	11/05/2020	EB	<0.0000200	<0.0000300	<0.0000200	<0.0000200	<0.0000200	<0.0000700	<0.0000300	<0.0000200	<0.0000200	<0.0000200	0.0000200 J	<0.0000200	<0.0000300
	EB-2-11062020	11/06/2020	EB	<0.0000200	<0.0000300	<0.0000200	<0.0000200	<0.0000200	<0.0000700	<0.0000300	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000300
	EB-3-11062020	11/06/2020	EB	<0.0000200	<0.0000300	<0.0000200	<0.0000200	<0.0000200	<0.0000700	<0.0000300	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000200	<0.0000300

NOTES:

Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

1 Equipment blank sample results presented in mg/L.
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
B* Result is included in the same preparatory batch as a blank detection for the associated analyte. Result is considered non-detect. Flag applied by Shannon & Wilson (*).
D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
E Reported result exceeded the instrument's upper calibration limit. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*).
JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).
Q Laboratory quality control failure reported that may affect the data quality. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
bgs = below ground surface; DUP = field duplicate; EB = equipment blank; mg/kg = milligrams per kilogram; mg/L = milligrams per liter; PAH = polycyclic aromatic hydrocarbon

Table 16A: Semivolatile Organic Compounds in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other SVOCs (mg/kg) 8270E/8270ESIM										
				1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene
				0.000072 (0.005)	0.0030	0.0013	0.0081	1.13	0.00019	0.0043 (0.1)	0.0023 (0.025)	0.029 (0.2)	0.00016 (0.1)	0.066 (0.1)
SB-2021-068	SB-2021-068:1.0-01262021	01/26/2021	1.0	<0.0465	<0.0506	<0.0438	<0.0593	<0.253	<0.319	<0.267	<0.412	<0.228	<0.266	<0.0443
	SB-2021-068:5.5-01262021	01/26/2021	5.5	<0.0466	<0.0507	<0.0439	**0.186 J**	<0.254	<0.320	<0.268	<0.413	<0.229	<0.267	<0.0444
MW-67	MW-67:0.5-01262021	01/26/2021	0.5	<0.00995	<0.00995	<0.00995	—	<0.0498	<0.0498	<0.0498	<0.0995	<0.0498	<0.0498	<0.00995
	MW-67:5.5-01262021	01/26/2021	5.5	<0.00995	<0.00995	<0.00995	—	<0.0498	<0.0498	<0.0498	<0.0995	<0.0498	<0.0498	<0.00995
	MW-67:9.0-01262021	01/26/2021	9.0	<0.0100	<0.0100	<0.0100	—	<0.0500	<0.0500	<0.0500	<0.100	<0.0500	<0.0500	<0.0100
	MW-67:16.0-01262021	01/26/2021	16.0	<0.00995	<0.00995	<0.00995	<0.00995	<0.0499	<0.0499	<0.0499	<0.0995	<0.0499	<0.0499	<0.00995
	MW-67:20.5-01262021	01/26/2021	20.5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0499	<0.0499	<0.0499	<0.100	<0.0499	<0.0499	<0.0100
MW-68	MW-68:8.5-02022021	02/02/2021	8.5	<0.00470	<0.00510	<0.00440	**0.0352**	<0.0254	<0.0320	<0.0268	<0.0412	<0.0229	<0.0267	<0.00440
MW-72	MW-72:1-022022021	02/02/2021	1.0	<0.00470	<0.00510	<0.00440	<0.00590	<0.0254	<0.0320	<0.0268	<0.0412	<0.0229	<0.0267	<0.00440
	MW-72:5-022022021	02/02/2021	5.0	<0.00470	<0.00510	<0.00440	<0.00590	<0.0254	<0.0319	<0.0267	<0.0412	<0.0229	<0.0266	<0.00440
	MW-72:10.9-022022021	02/02/2021	10.9	<0.00460	<0.00510	<0.00440	<0.00590	<0.0253	<0.0319	<0.0267	<0.0412	<0.0228	<0.0266	<0.00440
MW-76	MW-76:1.5-01262021	01/26/2021	1.5	<0.0100	<0.0100	<0.0100	—	<0.0500	<0.0500	<0.0500	<0.100	<0.0500	<0.0500	<0.0100
	MW-100:5.0-01262021 (DUP)	01/26/2021	5.0	<0.00995	<0.00995	<0.00995	—	<0.0498	<0.0498	<0.0498	<0.0995	<0.0498	<0.0498	<0.00995
	MW-76:5.0-01262021	01/26/2021	5.0	<0.0100	<0.0100	<0.0100	—	<0.0500	<0.0500	<0.0500	<0.100	<0.0500	<0.0500	<0.0100

NOTES:
Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

1 Equipment blank sample results presented in mg/L.
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
R* Rejected result due to severe quality control failures; see checklist for details. Flag applied by Shannon & Wilson (*).
bgs = below ground surface; DUP = field duplicate; EB = equipment blank; mg/kg = milligrams per kilogram; mg/L = milligrams per liter; SVOC = semivolatile organic compound

Table 16B: Semivolatile Organic Compounds in Soil

				Other SVOCs (mg/kg) 8270E/8270ESIM											
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	2-Chloronaphthalene 0.28	2-Chlorophenol 0.011 (0.02)	2-Methylphenol 0.006	2-Nitroaniline 292	2-Nitrophenol NA	3,3'-Dichlorobenzidine 0.0000020 (0.1)	3- Nitroaniline NA	4,6-Dinitro-2-Methylphenol 0.0073 (0.2)	4-Bromophenyl Phenyl Ether NA	4-Chloro-3-Methylphenol 0.028 (0.1)	4-Chloroaniline 0.96
SB-2021-068	SB-2021-068:1.0-01262021	01/26/2021	1.0	<0.0645	**<0.0565**	**<0.301**	<0.0690	<0.311	**<0.376**	<0.504	<0.0605	<0.288	**<0.336**	<0.0694
	SB-2021-068:5.5-01262021	01/26/2021	5.5	<0.0646	**0.237**	**<0.302**	<0.0691	<0.312	**<0.377**	<0.505	<0.0606	<0.289	**<0.337**	<0.0695
MW-67	MW-67:0.5-01262021	01/26/2021	0.5	<0.00995	—	**<0.0498**	<0.00995	<0.0498	<0.0498	<0.0995	<0.00995	<0.0498	<0.0498	<0.0249
	MW-67:5.5-01262021	01/26/2021	5.5	<0.00995	—	**<0.0498**	<0.00995	<0.0498	<0.0498	<0.0995	<0.00995	<0.0498	<0.0498	<0.0249
	MW-67:9.0-01262021	01/26/2021	9.0	<0.0100	—	**<0.0500**	<0.0100	<0.0500	<0.0500	<0.100	<0.0100	<0.0500	<0.0500	<0.0250
	MW-67:16.0-01262021	01/26/2021	16.0	<0.00995	<0.00995	**<0.0499**	<0.00995	<0.0499	<0.0499	<0.0995	<0.00995	<0.0499	<0.0499	<0.0250
	MW-67:20.5-01262021	01/26/2021	20.5	<0.0100	<0.0100	**<0.0499**	<0.0100	<0.0499	<0.0499	<0.100	<0.0100	<0.0499	<0.0499	<0.0250
MW-68	MW-68:8.5-02022021	02/02/2021	8.5	<0.00650	**0.0450**	**<0.0302**	<0.00690	<0.0312	<0.0376	<0.0504	<0.00610	<0.0289	<0.0337	<0.00700
MW-71	MW-71:1.5-02042021	02/04/2021	1.5	—	0.00510 J	—	—	—	—	—	—	—	—	—
	MW-71:5.0-02042021	02/04/2021	5.0	—	0.00760 J	—	—	—	—	—	—	—	—	—
	MW-71:8.5-02042021	02/04/2021	8.5	—	0.00710 J	—	—	—	—	—	—	—	—	—
MW-72	MW-72:1-022022021	02/02/2021	1.0	<0.00650	<0.00570	**<0.0302**	<0.00690	<0.0312	<0.0376	<0.0504	<0.00610	<0.0289	<0.0336	<0.00690
	MW-72:5-022022021	02/02/2021	5.0	<0.00650	<0.00570	**<0.0301**	<0.00690	<0.0311	<0.0376	<0.0504	<0.00610	<0.0288	<0.0336	<0.00690
	MW-72:10.9-022022021	02/02/2021	10.9	<0.00650	<0.00570	**<0.0301**	<0.00690	R*	<0.0376	<0.0503	<0.00610	<0.0288	<0.0336	<0.00690
MW-76	MW-76:1.5-01262021	01/26/2021	1.5	<0.0100	—	**<0.0500**	<0.0100	<0.0500	<0.0500	<0.100	<0.0100	<0.0500	<0.0500	<0.0250
	MW-100:5.0-01262021 (DUP)	01/26/2021	5.0	<0.00995	—	**<0.0498**	<0.00995	<0.0498	<0.0498	<0.0995	<0.00995	<0.0498	<0.0498	<0.0249
	MW-76:5.0-01262021	01/26/2021	5.0	<0.0100	—	**<0.0500**	<0.0100	<0.0500	<0.0500	<0.100	<0.0100	<0.0500	<0.0500	<0.0250

NOTES: Results reported from Analytical Resources, LLC

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

1 Equipment blank sample results presented in mg/L.

— Not analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

R* Rejected result due to severe quality control failures; see checklist for details. Flag applied by Shannon & Wilson (*).

bgs = below ground surface; DUP = field duplicate; EB = equipment blank; mg/kg = milligrams per kilogram; mg/L = milligrams per liter; SVOC = semivolatile organic compound

Table 16C: Semivolatile Organic Compounds in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other SVOCs (mg/kg) 8270E/8270ESIM									
				4-Chlorophenyl-Phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Benzoic Acid	Benzyl Alcohol	Bis (2-Chloroethoxy) Methane	Bis (2-Chloroethyl) Ether	Bis (2-Ethylhexyl) Phthalate	Bis (2-Chloro-1-Methylethyl) Ether
				NA	0.062	30	NA	0.17	0.017 (0.02)	206	0.000022 (0.02)	0.0051 (0.05)	0.038
SB-2021-068	SB-2021-068:1.0-01262021	01/26/2021	1.0	<0.147	**<0.348**	<0.443	<0.0512	<0.149	**<0.0632**	<0.0676	**<0.0565**	**0.413 J**	**<0.0803**
	SB-2021-068:5.5-01262021	01/26/2021	5.5	<0.147	**<0.349**	<0.444	<0.0513	<0.149	**<0.0633**	<0.0677	**<0.0566**	**<0.288**	**<0.0804**
MW-67	MW-67:0.5-01262021	01/26/2021	0.5	<0.00995	<0.0498	<0.0498	—	<0.00995	<0.00995	<0.0249	<0.00995	**<0.0249**	<0.00995
	MW-67:5.5-01262021	01/26/2021	5.5	<0.00995	<0.0498	<0.0498	—	<0.00995	<0.00995	<0.0249	<0.00995	**0.0171 J**	<0.00995
	MW-67:9.0-01262021	01/26/2021	9.0	<0.0100	<0.0500	<0.0500	—	<0.0100	<0.0100	<0.0250	<0.0100	**0.0586**	<0.0100
	MW-67:16.0-01262021	01/26/2021	16.0	<0.00995	<0.0499	<0.0499	<0.00995	<0.00995	<0.00995	<0.0250	<0.00995	**0.00640 J**	<0.00995
	MW-67:20.5-01262021	01/26/2021	20.5	<0.0100	<0.0499	<0.0499	<0.0100	<0.0100	<0.0100	<0.0250	<0.0100	**0.00570 J**	<0.0100
MW-68	MW-68:8.5-02022021	02/02/2021	8.5	<0.0147	<0.0349	<0.0443	<0.00510	<0.0149	<0.00630	<0.00680	<0.00570	**<0.0288**	<0.00800
MW-71	MW-71:1.5-02042021	02/04/2021	1.5	—	—	—	<0.00440	—	—	—	—	—	—
	MW-71:5.0-02042021	02/04/2021	5.0	—	—	—	<0.00410	—	—	—	—	—	—
	MW-71:8.5-02042021	02/04/2021	8.5	—	—	—	<0.00380	—	—	—	—	—	—
MW-72	MW-72:1-022022021	02/02/2021	1.0	<0.0147	<0.0348	<0.0443	<0.00510	<0.0149	<0.00630	<0.00680	<0.00570	**<0.0288**	<0.00800
	MW-72:5-022022021	02/02/2021	5.0	<0.0147	<0.0348	<0.0443	<0.00510	<0.0149	<0.00630	<0.00680	<0.00570	**<0.0287**	<0.00800
	MW-72:10.9-022022021	02/02/2021	10.9	<0.0147	<0.0348	<0.0443	<0.00510	<0.0149	<0.00630	<0.00680	<0.00570	**<0.0287**	<0.00800
MW-76	MW-76:1.5-01262021	01/26/2021	1.5	<0.0100	<0.0500	<0.0500	—	<0.0100	<0.0100	<0.0250	<0.0100	**0.00570 J**	<0.0100
	MW-100:5.0-01262021 (DUP)	01/26/2021	5.0	0.0141 J	<0.0498	<0.0498	—	<0.00995	<0.00995	<0.0249	<0.00995	**<0.0249**	<0.00995
	MW-76:5.0-01262021	01/26/2021	5.0	0.0101 J	<0.0500	<0.0500	—	<0.0100	<0.0100	<0.0250	<0.0100	**0.00860 J**	<0.0100

NOTES:

Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

1 Equipment blank sample results presented in mg/L.
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
R* Rejected result due to severe quality control failures; see checklist for details. Flag applied by Shannon & Wilson (*).
bgs = below ground surface; DUP = field duplicate; EB = equipment blank; mg/kg = milligrams per kilogram; mg/L = milligrams per liter; SVOC = semivolatile organic compound

Table 16D: Semivolatile Organic Compounds in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other SVOCs (mg/kg) 8270E/8270ESIM										
				Butylbenzyl-Phthalate	Carbazole	Diethylphthalate	Dimethylphthalate	Di-N-Butylphthalate	Di-N-Octyl Phthalate	Hexachloro-Benzene	Hexachloro-Butadiene	Hexachloro-Cyclopentadiene	Hexachloroethane	Isophorone
				0.00018 (0.005)	NA	0.034	0.019 (0.02)	0.015 (0.02)	0.33	0.0000004 (0.005)	0.000011 (0.005)	0.0017 (0.1)	0.0000097 (0.02)	0.039
SB-2021-068	SB-2021-068:1.0-01262021	01/26/2021	1.0	<0.0735	0.143 J	<0.0642	<0.0529	<0.0869	0.202	<0.0500	<0.412	<0.0563	<0.0597	<0.0523
	SB-2021-068:5.5-01262021	01/26/2021	5.5	<0.0736	0.109 J	<0.0643	<0.0531	<0.0871	0.208	<0.0501	<0.413	<0.0564	<0.0598	**0.164 J**
MW-67	MW-67:0.5-01262021	01/26/2021	0.5	<0.00995	—	0.00530 J	<0.00995	<0.00995	—	<0.00995	<0.0498	<0.00995	—	—
	MW-67:5.5-01262021	01/26/2021	5.5	<0.00995	—	<0.00995	<0.00995	<0.00995	—	<0.00995	<0.0498	<0.00995	—	—
	MW-67:9.0-01262021	01/26/2021	9.0	<0.0100	—	<0.0100	<0.0100	<0.0100	—	<0.0100	<0.0500	<0.0100	—	—
	MW-67:16.0-01262021	01/26/2021	16.0	<0.00995	<0.00995	<0.00995	<0.00995	<0.00995	<0.00995	<0.00995	<0.0499	<0.00995	<0.00995	<0.00995
	MW-67:20.5-01262021	01/26/2021	20.5	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0499	<0.0100	<0.0100	<0.0100
MW-68	MW-68:8.5-02022021	02/02/2021	8.5	<0.00740	0.00640 J	<0.00640	<0.00530	<0.00870	0.00590 J	<0.00500	<0.0412	<0.00560	<0.00600	0.0360
MW-71	MW-71:1.5-02042021	02/04/2021	1.5	—	0.0108 J	—	—	—	0.0130 J	—	—	—	**0.00770 J**	0.00470 J
	MW-71:5.0-02042021	02/04/2021	5.0	—	<0.00410	—	—	—	<0.00360	—	—	—	<0.00470	0.00660 J
	MW-71:8.5-02042021	02/04/2021	8.5	—	0.00530 J	—	—	—	0.0195	—	—	—	<0.00440	**0.0541**
MW-72	MW-72:1-022022021	02/02/2021	1.0	<0.00740	<0.00520	<0.00640	<0.00530	<0.00870	<0.00450	<0.00500	<0.0412	<0.00560	<0.00600	<0.00520
	MW-72:5-022022021	02/02/2021	5.0	<0.00740	<0.00520	<0.00640	<0.00530	<0.00870	<0.00450	<0.00500	<0.0412	<0.00560	<0.00600	<0.00520
	MW-72:10.9-022022021	02/02/2021	10.9	<0.00730	<0.00520	<0.00640	<0.00530	<0.00870	<0.00450	<0.00500	<0.0412	<0.00560	<0.00600	<0.00520
MW-76	MW-76:1.5-01262021	01/26/2021	1.5	<0.0100	—	<0.0100	<0.0100	<0.0100	—	<0.0100	<0.0500	<0.0100	—	—
	MW-100:5.0-01262021 (DUP)	01/26/2021	5.0	<0.00995	—	<0.00995	<0.00995	<0.00995	—	<0.00995	<0.0498	<0.00995	—	—
	MW-76:5.0-01262021	01/26/2021	5.0	<0.0100	—	<0.0100	<0.0100	<0.0100	—	<0.0100	<0.0500	<0.0100	—	—

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

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1 Equipment blank sample results presented in mg/L.

— Not analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

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J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

R* Rejected result due to severe quality control failures; see checklist for details. Flag applied by Shannon & Wilson (*).

bgs = below ground surface; DUP = field duplicate; EB = equipment blank; mg/kg = milligrams per kilogram; mg/L = milligrams per liter; SVOC = semivolatile organic compound

Table 16E: Semivolatile Organic Compounds in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Other SVOCs (mg/kg) 8270E/8270ESIM					
				Nitrobenzene	N-Nitrosodi-N-Propylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenol	Benzofluoranthenes, Total
				0.041	0.000033 (0.02)	0.0016 (0.005)	0.0000018 (0.02)	0.048	230
SB-2021-068	SB-2021-068:1.0-01262021	01/26/2021	1.0	<0.108	<0.0954 J*	<0.312	**0.164 J**	**0.183 J**	<0.589
	SB-2021-068:5.5-01262021	01/26/2021	5.5	<0.108	<0.0956 J*	<0.313	**0.195 J**	**0.156 J**	<0.590
MW-53	MW-53:9.5-02032021	02/03/2021	9.5	—	—	—	—	—	0.0800
	MW-53:15.8-02032021	02/03/2021	15.8	—	—	—	—	—	0.790
MW-60	MW-60:5-02012021	02/01/2021	5.0	—	—	—	—	—	0.500
	MW-60:9-02012021	02/01/2021	9.0	—	—	—	—	—	0.380
MW-61	MW-61:6-02012021	02/01/2021	6.0	—	—	—	—	—	0.0600
	MW-61:11-02012021	02/01/2021	11.0	—	—	—	—	—	0.310
MW-66	MW-66:5.5-0112521	01/25/2021	5.5	—	—	—	—	—	0.240
	MW-66:15.5-0112521	01/25/2021	15.5	—	—	—	—	—	0.290
MW-67	MW-67:0.5-01262021	01/26/2021	0.5	<0.00995	<0.00995 J*	**<0.0498**	—	—	<0.0995
	MW-67:5.5-01262021	01/26/2021	5.5	<0.00995	<0.00995 J*	**<0.0498**	—	—	2.31
	MW-67:9.0-01262021	01/26/2021	9.0	<0.0100	<0.0100 J*	**<0.0500**	—	—	1.03
	MW-67:16.0-01262021	01/26/2021	16.0	<0.00995	<0.00995 J*	**<0.0499**	**0.0114 J**	<0.00995	<0.0995
	MW-67:20.5-01262021	01/26/2021	20.5	<0.0100	<0.0100 J*	**<0.0499**	<0.0100	<0.0100	<0.100
MW-68	MW-68:8.5-02022021	02/02/2021	8.5	<0.0108	<0.00960	**<0.0313**	**0.0218**	0.00790 J	<0.0590
MW-71	MW-71:1.5-02042021	02/04/2021	1.5	—	—	**<0.0270 J***	**0.0126 J**	0.0139 J	—
	MW-71:5.0-02042021	02/04/2021	5.0	—	—	**<0.0247**	**0.00570 J**	<0.00440	—
	MW-71:8.5-02042021	02/04/2021	8.5	—	—	**<0.0230**	**0.0267**	0.0194	—
MW-72	MW-72:1.0-022022021	02/02/2021	1.0	<0.0108	<0.00960	**<0.0313**	**0.00500 J**	<0.00550	<0.0590
	MW-72:5-022022021	02/02/2021	5.0	<0.0108	<0.00960	**<0.0312**	<0.00470	<0.00550	<0.0590
	MW-72:10.9-022022021	02/02/2021	10.9	<0.0108	<0.00950	**<0.0312**	**0.00660 J**	<0.00550	<0.0589
MW-76	MW-76:1.5-01262021	01/26/2021	1.5	<0.0100	<0.0100 J*	**<0.0500**	—	—	<0.100
	MW-100:5.0-01262021 (DUP)	01/26/2021	5.0	<0.00995	<0.00995 J*	**<0.0498**	—	—	0.0791 J
	MW-76:5.0-01262021	01/26/2021	5.0	<0.0100	<0.0100 J*	**<0.0500**	—	—	0.0488 J
Equipment Blank Samples[1]	EB-1-11052020	11/05/2020	EB	—	—	—	—	—	<0.000190
	EB-2-11062020	11/06/2020	EB	—	—	—	—	—	<0.000190
	EB-3-11062020	11/06/2020	EB	—	—	—	—	—	<0.000190

NOTES:
Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
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1 Equipment blank sample results presented in mg/L.
— Not analyzed.
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R* Rejected result due to severe quality control failures; see checklist for details. Flag applied by Shannon & Wilson (*).
bgs = below ground surface; DUP = field duplicate; EB = equipment blank; mg/kg = milligrams per kilogram; mg/L = milligrams per liter; SVOC = semivolatile organic compound

Table 17: Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	HVOCs (mg/kg) SW8260D					
				1,1-Dichloroethene	Cis-1,2-Dichloroethene	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
				1.4	117	0.0016	0.32	0.00027 (0.001)	0.0000555 (0.001)
SB-2021-003	SB-2021-003:2-01262020	01/26/2021	2.0	<0.000490	<0.000350	<0.000380	<0.000390	<0.000310	<0.000340
	SB-2021-003:10.3-01262020	01/26/2021	10.3	<0.000510	<0.000370	<0.000390	<0.000410	<0.000320	<0.000360
	SB-2021-003:11.5-01262020	01/26/2021	11.5	<0.000420	<0.000300	<0.000320	<0.000330	<0.000260	<0.000290
SB-2020-004	SB-2020-004:2.5-11062020	11/06/2020	2.5	<0.000540	<0.00160 J*	<0.000410	—	<0.000340	<0.000380
	SB-2020-004:8-11062020	11/06/2020	8.0	<0.000530	<0.00158 J*	<0.000410	—	<0.000330	<0.000370
	SB-2020-004:13-11062020	11/06/2020	13.0	<0.000530	<0.00157 J*	<0.000400	—	<0.000330	<0.000370
	SB-2020-004:17-11062020	11/06/2020	17.0	<0.000410	<0.00122 J*	<0.000310	—	<0.000260	<0.000290
	SB-2020-101:17-11062020 (DUP)	11/06/2020	17.0	<0.000420	<0.00124 J*	<0.000320	—	<0.000260	<0.000290
	SB-2020-004:21-11062020	11/06/2020	21.0	<0.000630	<0.00189 J*	<0.000490	—	<0.000400	<0.000440
	SB-2020-004:27-11062020	11/06/2020	27.0	<0.000500	<0.00150 J*	<0.000390	—	<0.000320	<0.000350
SB-2020-005	SB-2020-005:1-11042020	11/04/2020	1.0	<0.000520	<0.00155 J*	<0.000400	—	<0.000330	<0.000370
	SB-2020-005:6-11042020	11/04/2020	6.0	<0.000580	<0.00171 J*	<0.000440	—	<0.000360	<0.000400
	SB-2020-005:12-11042020	11/04/2020	12.0	<0.000490	<0.00145 J*	<0.000370	—	<0.000310	<0.000340
SB-2020-008	SB-2020-008:2-11052020	11/05/2020	2.0	<0.000350	<0.00103 J*	<0.000270	—	<0.000220	<0.000240
	SB-2020-008:5.5-11052020	11/05/2020	5.5	<0.000360	<0.00106 J*	0.000280 JH*	—	<0.000220	<0.000250
	SB-2020-008:11.5-11052020	11/05/2020	11.5	<0.000440	<0.00130 J*	<0.000340	—	<0.000280	<0.000310
SB-2021-009	SB-2021-009:2-01252021	01/25/2021	2.0	<0.000480	<0.000340	<0.000370	<0.000380	<0.000300	<0.000330
	SB-2021-009:6-01252021	01/25/2021	6.0	<0.000440	<0.000310	<0.000330	<0.000350	<0.000280	<0.000310
	SB-2021-009:10.8-01252021	01/25/2021	10.8	<0.000470	<0.000340	<0.000360	<0.000370	<0.000300	<0.000330
SB-2020-014	SB-2020-014:1.5-11052020	11/05/2020	1.5	<0.000480	0.00389 JL*	<0.000370	—	**0.000770 J**	<0.000340
	SB-2020-014:7-11052020	11/05/2020	7.0	<0.000370	0.00270 JL*	**0.00299 JH***	—	**0.0783**	<0.000260
	SB-2020-014:11-11052020	11/05/2020	11.0	<0.000440	0.00499 JL*	<0.000340	—	**0.0128**	<0.000310
	SB-2020-100:11-11052020 (DUP)	11/05/2020	11.0	<0.000320	0.00449	<0.000240	—	**0.00776**	<0.000220
SB-2020-015	SB-2020-015:1-11042020	11/04/2020	1.0	<0.000450	<0.00134 J*	0.000560 JH*	—	**0.0157**	<0.000310
	SB-2020-015:7-11042020	11/04/2020	7.0	<0.000420	<0.00126 J*	0.000430 JH*	—	**0.00437**	<0.000300
	SB-2020-015:13-11042020	11/04/2020	13.0	<0.000490	0.00125 JL*	<0.000380	—	<0.000310	<0.000340

Table 17: Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	HVOCs (mg/kg) SW8260D					
				1,1-Dichloroethene	Cis-1,2-Dichloroethene	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
				1.4	117	0.0016	0.32	0.00027 (0.001)	0.0000555 (0.001)
SB-2020-016	SB-2020-016:2-11042020	11/04/2020	2.0	<0.000410	<0.00121 J*	<0.000310	—	**0.00156**	<0.000280
	SB-2020-016:7-11042020	11/04/2020	7.0	<0.000430	0.000370 JL*	<0.000330	—	**0.0122**	<0.000300
	SB-2020-016:12-11042020	11/04/2020	12.0	<0.000570	0.000610 JL*	<0.000440	—	<0.000360	<0.000400
SB-2021-017	SB-2021-017:2-01252021	01/25/2021	2.0	<0.000540	<0.000390	<0.000420	<0.000430	<0.000340	<0.000380
	SB-2021-017:5-01252021	01/25/2021	5.0	<0.000490	<0.000350	<0.000370	<0.000390	<0.000310	<0.000340
	SB-2021-017:10.5-01252021	01/25/2021	10.5	<0.000360	<0.000260	<0.000280	<0.000290	<0.000230	<0.000250
SB-2021-033	SB-2021-033:11-01262021	01/26/2021	11.0	<0.0135	<0.0154	**<0.0236**	<0.000380	**<0.0154**	**<0.0133**
SB-2021-034	SB-2021-034:10.7-01252021	01/25/2021	10.7	<0.000450	<0.000320	<0.000340	<0.000350	<0.000280	<0.000310
	SB-2021-102:10.7-01252021 (DUP)	01/25/2021	10.7	<0.000490	<0.000350	<0.000370	<0.000380	<0.000310	<0.000340
SB-2021-039	SB-2021-039:2-01252021	01/25/2021	2.0	<0.00129	<0.000920	<0.000990	<0.00102	<0.000820	<0.000910
	SB-2021-039:7.4-01252021	01/25/2021	7.4	<0.000460	<0.000330	<0.000350	<0.000360	<0.000290	<0.000320
	SB-2021-039:10.7-01252021	01/25/2021	10.7	<0.000490	<0.000350	<0.000370	<0.000380	<0.000310	<0.000340
SB-2021-041	SB-2021-041:2-01282021	01/28/2021	2.0	<0.000450	<0.000320	<0.000340	<0.000360	**0.00163 J***	<0.000310
	SB-2021-106:2-01282021 (DUP)	01/28/2021	2.0	<0.000530	<0.000380	<0.000400	<0.000420	**0.00305 J***	<0.000370
	SB-2021-041:6-01282021	01/28/2021	6.0	<0.000220	<0.000160	<0.000170	<0.000170	**0.00201**	<0.000150
	SB-2021-041:10.5-01282021	01/28/2021	10.5	<0.000470	0.0142	<0.000360	0.000700 J	**0.00129 J**	<0.000330
	SB-2021-041:13.3-01282021	01/28/2021	13.3	<0.000500	<0.000350	<0.000380	<0.000390	**0.000640 J**	<0.000350
	SB-2021-041:19-01282021	01/28/2021	19.0	<0.000440	<0.000310	<0.000330	<0.000340	<0.000270	<0.000300
	SB-2021-041:23-01282021	01/28/2021	23.0	<0.000420	<0.000300	<0.000320	<0.000330	<0.000260	<0.000290
SB-2020-045	SB-2020-045:2.8-11032020	11/03/2020	2.8	<0.000480	<0.00143 J*	<0.000370	—	<0.000300	<0.000340
	SB-2020-045:7.2-11032020	11/03/2020	7.2	<0.000390	<0.00116 J*	<0.000300	—	<0.000250	<0.000270
SB-2021-065	SB-2021-065:13-02022021	02/02/2021	13.0	<0.000370	<0.000260	<0.000280	<0.000290	<0.000230	<0.000260
SB-2021-068	SB-2021-068:1.0-01262021	01/26/2021	1.0	<0.000290	<0.000210	<0.000220	<0.000230	<0.000180	<0.000200
	SB-2021-068:5.5-01262021	01/26/2021	5.5	<0.000400	<0.000290	<0.000310	<0.000320	**0.00305**	<0.000280

Table 17: Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	HVOCs (mg/kg) SW8260D 1,1-Dichloroethene 1.4	Cis-1,2-Dichloroethene 117	Tetrachloroethene 0.0016	Trans-1,2-Dichloroethene 0.32	Trichloroethene 0.00027 (0.001)	Vinyl Chloride 0.0000555 (0.001)
MW-10R	MW-10R:2-02052021	02/05/2021	2.0	<0.000420	<0.000300	<0.000320	R*	<0.000270	<0.000290
	MW-10R:5.4-02052021	02/05/2021	5.4	<0.000500	<0.000360	<0.000390	R*	<0.000320	<0.000350
	MW-104:9-02052021 (DUP)	02/05/2021	9.0	<0.000560	<0.000400	<0.000430	<0.000440	<0.000350	<0.000390
	MW-10R:9-02052021	02/05/2021	9.0	<0.000610	<0.000440	<0.000470	<0.000480	<0.000390	<0.000430
MW-53	MW-53:1-02032021	02/03/2021	1.0	<0.000410	<0.000290	0.000390 J	<0.000320	<0.000260	<0.000290
MW-54	MW-54:1-02032021	02/03/2021	1.0	<0.000500	<0.000350	<0.000380	<0.000390	<0.000310	<0.000350
	MW-102:5.5-02032021 (DUP)	02/03/2021	5.5	<0.000510	<0.000360	<0.000390	<0.000400	<0.000320	<0.000350
	MW-54:5.5-02032021	02/03/2021	5.5	<0.000700	<0.000500	<0.000540	<0.000550	<0.000440	<0.000490
	MW-54:9-02032021	02/03/2021	9.0	<0.000400	<0.000290	<0.000310	<0.000320	<0.000250	<0.000280
MW-58	MW-58:1.5-01272021	01/27/2021	1.5	<0.000460	<0.000330	<0.000350	<0.000360	<0.000290	<0.000320
	MW-58:5.5-01272021	01/27/2021	5.5	<0.000490	<0.000350	<0.000370	<0.000380	<0.000310	<0.000340
	MW-58:8.4-01272021	01/27/2021	8.4	<0.000570	<0.000410	<0.000440	<0.000450	<0.000360	<0.000400
MW-60	MW-60:1.5-02012021	02/01/2021	1.5	<0.000490	<0.000350	<0.000380	<0.000390	<0.000310	<0.000350
	MW-60:5-02012021	02/01/2021	5.0	<0.000510	<0.000360	<0.000390	<0.000400	<0.000320	<0.000360
	MW-60:9-02012021	02/01/2021	9.0	<0.000480	<0.000340	<0.000370	<0.000380	<0.000300	<0.000340
MW-65	MW-65:20-02052021	02/05/2021	20.0	<0.000490	<0.000350	<0.000380	R*	<0.000310	<0.000340
MW-66	MW-66:1.2-0112521	01/25/2021	1.2	<0.000440	<0.000310	**0.00165 JH***	<0.000350	<0.000280	<0.000310
	MW-66:5.5-0112521	01/25/2021	5.5	<0.000340	<0.000240	<0.000260	<0.000270	<0.000220	<0.000240
	MW-66:10.0-0112521	01/25/2021	10.0	<0.000440	<0.000320	0.000420 J	<0.000350	**0.000520 J**	<0.000310
MW-67	MW-67:0.5-01262021	01/26/2021	0.5	<0.000320	<0.000230	<0.000250	<0.000260	<0.000200	<0.000230
	MW-67:5.5-01262021	01/26/2021	5.5	<0.000340	<0.000250	<0.000260	<0.000270	<0.000220	<0.000240
	MW-67:9.0-01262021	01/26/2021	9.0	<0.000300	<0.000220	<0.000230	<0.000240	<0.000190	<0.000210
	MW-67:16.0-01262021	01/26/2021	16.0	<0.000300	<0.000210	<0.000230	<0.000240	<0.000190	<0.000210
	MW-67:20.5-01262021	01/26/2021	20.5	<0.000300	<0.000220	<0.000230	<0.000240	<0.000190	<0.000210
MW-68	MW-68:8.5-02022021	02/02/2021	8.5	<0.000330	<0.000240	0.000400 J	<0.000260	**0.0142**	<0.000230

Table 17: Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	HVOCs (mg/kg) SW8260D					
				1,1-Dichloroethene	Cis-1,2-Dichloroethene	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
				1.4	117	0.0016	0.32	0.00027 (0.001)	0.0000555 (0.001)
MW-70	MW-70:0-02022021	02/02/2021	0.0	<0.000410	<0.000290	<0.000310	<0.000330	**0.00236**	<0.000290
	MW-70:4.3-02022021	02/02/2021	4.3	<0.000420	0.000320 J	**0.00307**	<0.000330	**0.0427**	<0.000290
	MW-70:8-02022021	02/02/2021	8.0	<0.000530	0.00269	**0.00515**	<0.000420	**0.0297**	<0.000370
	MW-70:35-02032021	02/03/2021	35.0	<0.000460	<0.000330	<0.000350	<0.000370	<0.000290	<0.000320
	MW-70:45-02032021	02/03/2021	45.0	<0.000500	<0.000360	<0.000380	<0.000400	<0.000320	<0.000350
	MW-70:55-02032021	02/03/2021	55.0	<0.000430	<0.000310	<0.000330	<0.000340	<0.000270	<0.000300
MW-71	MW-71:1.5-02042021	02/04/2021	1.5	<0.000240	<0.000170	<0.000180	<0.000190	<0.000150	<0.000160
	MW-71:5.0-02042021	02/04/2021	5.0	<0.000240	<0.000170	<0.000190	<0.000190	<0.000150	<0.000170
	MW-71:8.5-02042021	02/04/2021	8.5	<0.000240	<0.000170	<0.000190	<0.000190	<0.000150	<0.000170
	MW-71:15.5-02042021	02/04/2021	15.5	<0.000220	<0.000160	<0.000170	<0.000180	<0.000140	<0.000160
	MW-71:20.5-02042021	02/04/2021	20.5	<0.000210 J*	0.000460 JL*	<0.000160	<0.000170 J*	<0.000130 J*	**0.00159 JL***
MW-73	MW-73:3.2-02022021	02/02/2021	3.2	<0.000420	<0.000300	<0.000320	<0.000330	<0.000270	<0.000290
	MW-73:7-02022021	02/02/2021	7.0	<0.000540	<0.000390	<0.000410	<0.000340	<0.000340	<0.000380
	MW-73:11-02022021	02/02/2021	11.0	<0.000400	<0.000290	<0.000310	<0.000320	<0.000260	<0.000280
	MW-73:15-02022021	02/02/2021	15.0	<0.000430	<0.000310	<0.000330	<0.000340	<0.000270	<0.000300
	MW-73:17.7-02022021	02/02/2021	17.7	<0.000480	<0.000340	<0.000370	<0.000380	<0.000300	<0.000340
MW-75	MW-75:1.5-01282021	01/28/2021	1.5	<0.000270	<0.000190	<0.000210	<0.000210	<0.000170	<0.000190
	MW-75:6.0-01282021	01/28/2021	6.0	<0.000290	<0.000210	<0.000220	<0.000230	<0.000180	<0.000200
	MW-75:8.5-01282021	01/28/2021	8.5	<0.000350	<0.000250	<0.000270	<0.000280	<0.000220	<0.000250
Equipment Blank Samples[1]	EB-1-11052020	11/05/2020	EB	<0.0000800	<0.0000800	<0.0000900	—	<0.0000700	<0.0000800
	EB-2-11062020	11/06/2020	EB	<0.0000800	<0.0000800	<0.0000900	—	<0.0000700	<0.0000800
	EB-3-11062020	11/06/2020	EB	<0.0000800	<0.0000800	<0.0000900	—	<0.0000700	<0.0000800

Table 17: Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	HVOCs (mg/kg) SW8260D					
				1,1-Dichloroethene 1.4	Cis-1,2-Dichloroethene 117	Tetrachloroethene 0.0016	Trans-1,2-Dichloroethene 0.32	Trichloroethene 0.00027 (0.001)	Vinyl Chloride 0.0000555 (0.001)
Trip Blank Samples[1]	TB-1-11032020	11/03/2020	TB	<0.0000500	<0.0000400	<0.0000500	—	<0.0000500	<0.0000600
	TB-2-11042020	11/04/2020	TB	<0.0000800	<0.0000800	<0.0000900	—	<0.0000700	<0.0000800
	TB-4-11052020	11/05/2020	TB	<0.0000800	<0.0000800	<0.0000900	—	<0.0000700	<0.0000800
	TB-1-01252021	01/25/2021	TB	<0.0000800	<0.0000800	<0.0000900	<0.0000700	<0.0000700	<0.0000800
	TB-2-01262021	01/27/2021	TB	<0.0000800	<0.0000800	<0.0000900	<0.0000700	<0.0000700	<0.0000800
	TB-3-01282021	01/28/2021	TB	<0.0000800 J*	<0.0000800 J*	<0.0000900 J*	<0.0000700 J*	<0.0000700 J*	<0.0000800 J*
	TB-4-02012021	02/02/2021	TB	<0.0000800	<0.0000800	<0.0000900	<0.0000700	<0.0000700	<0.0000800
	TB-5-02052021	02/05/2021	TB	<0.0000800	<0.0000800	<0.0000900	<0.0000700	<0.0000700	<0.0000800
	Trip Blank	02/04/2021	TB	<0.0000800	<0.0000800	<0.0000900	<0.0000700	<0.0000700	<0.0000800

Notes:

Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

1 Equipment blank and trip blank sample results presented in mg/L.
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*)
JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).
R* Rejected result due to severe quality control failures; see checklist for details. Flag applied by Shannon & Wilson (*).
DUP = field duplicate; EB = equipment blank; HVOC = halogenated volatile organic compound; mg/kg = milligrams per kilogram; mg/L = milligrams per liter; TB = trip blank

Table 18: Metals in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Metals (mg/kg) SW6020/SM 3500-Cr B-09														SW7470
				Arsenic 7.3	Barium 250	Cadmium 0.77	Chromium 48	Chromium, hexavalent 0.0069 (0.4)	Cobalt 20	Copper 36	Iron 56000	Lead 56	Manganese 1100	Nickel 48	Selenium 0.78 (5)	Silver 0.610	Vanadium 45	Zinc 85	Mercury 0.07
SB-2020-001	SB-2020-001:2.2-11032020	11/03/2020	2.2	6.74	56.1	0.400	17.3	—	6.74	25.1	—	10.3	—	14.8	0.750 J	0.100 J	44.6	**114**	**0.0822**
	SB-2020-001:6.8-11032020	11/03/2020	6.8	2.27	22.2	<0.0300	9.36	—	3.53	7.97	—	1.36	—	7.27	<0.450	0.0300 J	30.3	21.2	0.00845 J
SB-2021-002	SB-2021-002:3-01282021	01/28/2021	3.0	**11.2**	95.2	0.250	21.9	—	11.6	**41.7**	—	13.0	—	23.3	**2.12 J**	0.210 J	**60.9**	68.5	**0.169**
	SB-2021-002:6-01282021	01/28/2021	6.0	2.20	21.5	<0.0300	10.8	—	4.59	9.87	—	1.55	—	8.81	**1.17 J***	0.0500 J*	30.1	23.4 J*	<0.00432
	SB-2021-105:6-01282021 (DUP)	01/28/2021	6.0	2.03	19.0	<0.0300	9.70	—	4.22	9.40	—	1.60	—	8.84	0.610 J*	0.0300 J*	31.2	23.1	<0.00453
SB-2021-003	SB-2021-003:2-01262020	01/26/2021	2.0	7.19	67.4	0.140	17.3	—	9.76	25.3	—	6.11	—	17.5	**1.36 J**	0.110 J	**55.8**	47.0	0.0691
	SB-2021-003:10.3-01262020	01/26/2021	10.3	3.76	75.6	0.0600 J	19.4	—	7.66	24.4	—	4.70	—	16.3	**1.30 J**	0.0800 J	**51.6**	37.3	0.0605
	SB-2021-003:11.5-01262020	01/26/2021	11.5	5.45	97.5	<0.0400	20.4	—	10.4	32.7	—	4.78	—	20.6	**1.81 J**	0.130 J	**55.3**	37.0	**0.0716**
SB-2020-004	SB-2020-004:2.5-11062020	11/06/2020	2.5	2.75	35.0	<0.0400	11.5	—	4.53	10.8	—	2.23	—	8.91	0.650 J	0.0500 J	34.9	24.9	0.0250 J
	SB-2020-004:8-11062020	11/06/2020	8.0	2.11	20.1	<0.0300	7.53	—	3.52	7.25	—	1.41	—	6.37	0.650 J	0.0300 J	27.3	20.0	0.0106 J
	SB-2020-004:13-11062020	11/06/2020	13.0	4.13	65.3	<0.0400	13.9	—	5.04	22.6	—	3.05	—	10.7	**1.05 J**	0.0800 J	**46.9**	24.6	0.0460
	SB-2020-004:17-11062020	11/06/2020	17.0	1.84	21.2	<0.0300	7.47	—	4.27	8.42	—	1.05	—	6.34	0.590 J	0.0300 J	27.3	16.7	0.0127 J
	SB-2020-101:17-11062020 (DUP)	11/06/2020	17.0	2.55	30.7	<0.0400	7.59	—	4.47	9.73	—	1.26	—	7.65	**0.860 J**	0.0400 J	31.2	19.7	0.0165 J
	SB-2020-004:21-11062020	11/06/2020	21.0	2.12	35.3	<0.0300	7.98	—	4.56	9.57	—	1.23	—	7.63	0.680 J	0.0300 J	30.3	19.9	0.0125 J
	SB-2020-004:27-11062020	11/06/2020	27.0	1.77	28.3	<0.0300	8.78	—	3.95	8.20	—	1.22	—	7.21	0.620 J	0.0300 J	28.3	18.4	0.00929 J
SB-2020-005	SB-2020-005:1-11042020	11/04/2020	1.0	4.36	30.1	0.0500 J	10.8	—	4.33	14.9	—	3.55	—	12.2	<0.680	0.0400 J	31.6	29.1	0.0290 J
	SB-2020-005:6-11042020	11/04/2020	6.0	**8.77**	56.8	0.250	19.5	—	8.43	**38.0**	—	11.0	—	18.7	**1.16 J**	0.160 J	**50.0**	55.4	**0.143**
	SB-2020-005:12-11042020	11/04/2020	12.0	5.58	82.5	<0.0400	18.9	—	6.40	27.3	—	6.75	—	22.5	**1.06 J**	0.0700 J	**47.8**	38.5	0.0427
SB-2021-006	SB-2021-006:1.5-01292021	01/29/2021	1.5	**20.0**	36.1	0.140	28.6	—	8.61	**56.9**	—	**168**	—	**52.8**	0.740 J	0.0900 J	34.3	**139**	0.00907 J
	SB-2021-006:6-01292021	01/29/2021	6.0	2.10	22.7	<0.0300	9.89	—	4.19	9.96	—	1.90	—	8.79	0.630 J	0.0300 J	29.6	22.0	<0.00434
	SB-2021-006:10-01292021	01/28/2021	10.0	3.13	43.8	0.0700 J	22.3	—	5.59	24.7	—	15.3	—	21.1	**1.21 J**	0.0600 J	38.3	32.5	0.0131 J
SB-2020-007	SB-2020-007:1.2-2.8-11042020	11/04/2020	1.2-2.8	3.25	32.6	<0.0400	10.2	—	3.74	15.4	—	2.98	—	8.12	0.520 J	0.0500 J	27.7	22.3	0.0294
	SB-2020-007:10-10.9-11042020	11/04/2020	10.0-10.9	**7.54**	47.1	0.230	17.6	—	6.79	28.9	—	9.56	—	14.7	0.780 J	0.130 J	41.8	64.7	**0.0810**
	SB-2020-007:20-21.4-11042020	11/04/2020	20.0-21.4	3.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.0280 JL*
	SB-2020-007:6-7-11042020	11/04/2020	6.0-7.0	5.93	43.5	0.230	14.1	—	6.96	24.9	—	7.26	—	13.8	**0.870 J**	0.110 J	35.6	41.8	**0.0801**
SB-2020-008	SB-2020-008:2-11052020	11/05/2020	2.0	2.44	29.2	0.0400 J	10.0	—	4.32	10.4	—	2.34	—	8.59	0.520 J	0.0400 J	31.7	23.7	0.0592
	SB-2020-008:5.5-11052020	11/05/2020	5.5	**10.9**	38.2	0.0600 J	10.9	—	4.43	21.1	—	4.08	—	9.25	0.640 J	0.0400 J	31.6	33.3	0.0317
	SB-2020-008:11.5-11052020	11/05/2020	11.5	3.05	31.9	0.0500 J	11.0	—	4.42	11.8	—	2.74	—	9.10	0.560 J	0.0400 J	30.0	25.2	0.0241 J
SB-2021-009	SB-2021-009:2-01252021	01/25/2021	2.0	2.70	21.9	<0.0300	10.4	—	3.92	9.12	—	1.75	—	7.92	**0.980 J**	0.0400 J	35.4	21.8	0.00655 J
	SB-2021-009:6-01252021	01/25/2021	6.0	1.78	20.4	<0.0300	9.43	—	3.01	7.72	—	1.01	—	5.83	**0.830 J**	0.0300 J	33.6	18.0	0.00545 J
	SB-2021-009:10.8-01252021	01/25/2021	10.8	**9.09**	99.6	0.0500 J	21.6	—	9.70	32.4	—	5.21	—	17.8	**1.97 J**	0.110 J	**71.9**	47.0	0.0457
	SB-2021-009:13.3-01252021	01/25/2021	13.3	1.91	40.5	0.240 J*	11.9	—	5.77	18.8	10800	2.32	—	11.5	**1.31 J***	0.0700 J	41.0	27.5	—

Table 18: Metals in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Metals (mg/kg) SW6020/SM 3500-Cr B-09															SW7470
				Arsenic 7.3	Barium 250	Cadmium 0.77	Chromium 48	Chromium, hexavalent 0.0069 (0.4)	Cobalt 20	Copper 36	Iron 56000	Lead 56	Manganese 1100	Nickel 48	Selenium 0.78 (5)	Silver 0.610	Vanadium 45	Zinc 85	Mercury 0.07
SB-2021-010	SB-2021-010:1.5-01282021	01/28/2021	1.5	2.30	31.2	0.0600 J	10.5	—	4.24	10.6	—	3.27	—	9.87	**0.880 J**	0.0400 J	31.0	24.7	0.0141 J
	SB-2021-010:6-01282021	01/28/2021	6.0	2.44	25.7	<0.0300	10.0	—	4.33	10.9	—	5.78 J*	—	10.0	**0.850 J**	0.0400 J	31.3	25.5	0.0189 J
	SB-2021-104:6-01282021	01/28/2021	6.0	3.15	28.4	<0.0300	9.92	—	4.22	12.4	—	2.44 J*	—	8.57	**0.940 J**	0.0400 J	30.4	23.2	0.0176 J
	SB-2021-010:11-01282021	01/28/2021	11.0	4.11	39.1	<0.0400	10.4	—	4.86	14.0	—	1.88	—	8.71	**1.19 J**	0.0500 J	37.3	21.9	0.0128 J
SB-2021-011	SB-2021-011:1-01252021	01/25/2021	1.0	**7.63**	**288**	**4.39**	**2160 D**	—	10.2	**217 J***	—	**380 D**	—	**898 J***	**1.51 J**	0.580	**108 J***	**1260 D**	**0.195**
	SB-2021-101:1-01252021 (DUP)	01/25/2021	1.0	**11.4**	248	**4.68**	**2620 D**	—	16.6	**454 J***	—	**256**	—	**1660 J***	**1.34 J**	**0.610**	**183 J***	**1020 D**	**1.05**
	SB-2021-011:3-01252021	01/25/2021	3.0	**13.6**	157	**3.30**	**420 D**	—	8.08	**129**	—	**343 D**	—	**59.3**	**1.49 J**	0.540	**155**	**586 D**	**0.110**
	SB-2021-011:10-01252021	01/25/2021	10.0	3.53	74.1	0.0600 J	19.9	—	7.98	22.0	—	4.06	—	16.4	**1.58 J**	0.0800 J	**46.3**	40.5	0.0320
SB-2021-012	SB-2021-012:2-01252021	01/25/2021	2.0	2.94	29.6	0.0400 J	11.3	—	4.51	10.6	—	2.77	—	9.39	**1.17 J**	0.0400 J	34.2	24.6	**0.111**
	SB-2021-012:3.4-01252021	01/25/2021	3.4	2.84	35.6	<0.0300	12.1	—	4.67	10.1	—	1.84	—	9.45	**0.860 J**	0.0400 J	34.0	25.4	0.00706 J
	SB-2021-012:10.4-01252021	01/25/2021	10.4	4.77	74.7	0.0800 J	26.3	—	7.34	28.9	—	6.86	—	16.2	**1.45 J**	0.0900 J	**50.5**	41.7	0.0499
SB-2020-013	SB-2020-013:1.5-11052020	11/05/2020	1.5	7.26 J*	63.4 J*	0.0600 J	30.8 J*	—	6.55	27.3	—	23.1	—	25.6	**1.87 J***	0.0900 J	35.3	40.7	0.0163 J
	SB-2020-013:6-11052020	11/05/2020	6.0	2.03	22.4	0.0400 J	13.4	—	3.57	9.42	—	11.5	—	9.24	0.650 J	0.0500 J	24.3	21.3	0.0151 J
	SB-2020-013:11.5-11052020	11/05/2020	11.5	2.58	23.9	0.0400 J	7.57	—	3.48	10.3	—	2.24	—	7.15	0.760 J	0.0500 J	25.8	20.4	0.0281
SB-2020-014	SB-2020-014:1.5-11052020	11/05/2020	1.5	5.03	38.6	0.290	13.4	—	8.89	22.5	—	5.27	—	17.8	**0.870 J**	0.0800 J	35.4	42.5	0.0675
	SB-2020-014:7-11052020	11/05/2020	7.0	2.47	31.0	<0.0300	10.1	—	3.54	26.1	—	2.37	—	30.9	0.480 J	0.0200 J	27.7	52.7	0.00914 J
	SB-2020-014:11-11052020	11/05/2020	11.0	2.77	39.0	<0.0400	11.6	—	3.90	18.7	—	1.99	—	9.44	<0.600	0.0400 J	37.3	23.0	0.0289
	SB-2020-100:11-11052020 (DUP)	11/05/2020	11.0	2.59	32.7	<0.0400	10.6	—	3.57	13.8	—	1.69	—	10.8	<0.560	0.0300 J	37.6	20.1	0.0222 J
SB-2020-015	SB-2020-015:1-11042020	11/04/2020	1.0	3.13	58.5	**0.800**	26.0	—	4.38	15.1	—	4.54	—	**59.8**	0.490 J	0.120 J	25.8	38.0	0.0204 J
	SB-2020-015:7-11042020	11/04/2020	7.0	1.14	19.5	0.430	8.89	—	3.22	7.36	—	0.990	—	16.4	0.510 J	0.0200 J	28.1	19.7	0.00480 J
	SB-2020-015:13-11042020	11/04/2020	13.0	6.69	97.6	0.0400 J	19.7	—	10.0	**37.1**	—	4.78	—	19.1	**1.13 J**	0.100 J	**56.6**	34.5	0.0594
	SB-2020-015:20.5-11042020	11/04/2020	20.5	4.89	37.5	0.0600 J	44.4	—	4.51	**39.1**	—	2.19	—	**140**	**0.850 J**	0.0800 J	40.6	25.2	0.0382
	SB-2020-015:23-11042020	11/04/2020	23.0	—	—	—	—	—	—	8.12	—	—	—	6.60	—	—	—	—	—

Table 18: Metals in Soil

				Metals (mg/kg)															
				SW6020/SM 3500-Cr B-09															SW7470
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Arsenic 7.3	Barium 250	Cadmium 0.77	Chromium 48	Chromium, hexavalent 0.0069 (0.4)	Cobalt 20	Copper 36	Iron 56000	Lead 56	Manganese 1100	Nickel 48	Selenium 0.78 (5)	Silver 0.610	Vanadium 45	Zinc 85	Mercury 0.07
SB-2020-016	SB-2020-016:2-11042020	11/04/2020	2.0	1.71	19.7	0.0500 J	8.64	—	3.16	7.52	—	1.12	—	7.19	0.490 J	0.0200 J	24.3	18.0	0.00815 J
	SB-2020-016:7-11042020	11/04/2020	7.0	2.77	35.5	0.140	19.3	—	3.93	9.53	—	3.69	—	12.9	<0.460	0.0500 J	28.6	23.3	0.0125 J
	SB-2020-016:12-11042020	11/04/2020	12.0	3.95	78.9	<0.0400	19.3	—	6.66	25.8	—	4.40	—	28.9	0.750 J	0.0600 J	43.9	31.4	0.0452
SB-2021-017	SB-2021-017:2-01252021	01/25/2021	2.0	2.71	33.5	<0.0300	9.77	—	4.68	10.4	—	2.14	—	8.97	**1.08 J**	0.0400 J*	32.4	25.8	0.00624 J
	SB-2021-017:5-01252021	01/25/2021	5.0	3.33	39.3	0.0700 J	16.3	—	5.12	13.1	—	2.86	—	10.5	**1.30 J**	0.0600 J	36.8	27.3	0.00790 J
	SB-2021-017:10.5-01252021	01/25/2021	10.5	3.56	37.5	0.0700 J	23.4	—	5.76	16.1	—	3.32	—	11.8	**1.27 J**	0.0600 J	36.9	29.8	0.0154 J
SB-2021-027	SB-2021-027:5.3-01282021	01/28/2021	5.3	**10.7**	87.4	0.120 J	21.2	—	7.71	**38.3**	—	9.43	—	19.4	**2.23 J**	0.170 J	**66.9**	50.5	0.0606
	SB-2021-027:10-01282021	01/28/2021	10.0	**9.23**	81.2	0.160	21.2	—	8.37	**37.0**	—	8.24	—	19.9	**2.03 J**	0.160 J	**60.3**	50.7	**0.0965**
	SB-2021-027:2.2-01282021	01/28/2021	2..2	**17.2**	93.0	0.320	23.6	—	12.0	**43.9**	—	26.3	—	22.9	**2.66 J**	0.210 J	**65.8**	77.8	**0.0704**
SB-2020-028	SB-2020-028:2.3-11032020	11/03/2020	2.3	**10.4**	89.9	0.290	23.0	—	10.6	**43.3**	—	14.9	—	22.7	**1.48 J**	0.200 J	**61.0**	69.7	**0.153**
	SB-2020-028:6.8-11032020	11/03/2020	6.8	1.98	21.6	<0.0300	8.88	—	3.34	7.89	—	1.70	—	6.97	0.470 J	0.0300 J	28.3	19.4	0.00656 J
SB-2020-029	SB-2020-029:3.2-11032020	11/03/2020	3.2	1.95	16.7	<0.0300	9.84	—	3.20	7.16	—	1.52	—	7.04	<0.450	0.0300 J	28.1	18.7	0.0266
	SB-2020-029:7.5-11032020	11/03/2020	7.5	2.08	23.3	<0.0300	10.7	—	4.41	8.18	—	1.69	—	7.69	0.480 J	0.0300 J	34.1	22.0	<0.00476
SB-2021-038	SB-2021-038:2-01262021	01/26/2021	2.0	3.58	38.8	0.0500 J	12.0	—	5.02	14.6	—	3.74	—	10.5	**0.980 J**	0.0500 J	36.6	29.5	0.0300
	SB-2021-038:6.9-01262021	01/26/2021	6.9	2.22	30.0	<0.0300	9.34	—	4.08	9.95	—	1.66	—	7.84	**0.850 J**	0.0300 J	32.2	23.4	0.0132 J
	SB-2021-038:7.6-01262021	01/26/2021	7.6	5.43	39.5	<0.0400	11.2	—	3.76	14.8	—	6.62	—	9.38	0.650 J	0.0500 J	37.6	26.7	0.0381
SB-2021-039	SB-2021-039:2-01252021	01/25/2021	2.0	2.30	19.6	<0.0300	11.1	—	4.16	8.76	—	1.55	—	7.91	**1.01 J**	0.0300 J	32.8	20.4	**0.0775**
	SB-2021-039:7.4-01252021	01/25/2021	7.4	4.99	52.4	0.0800 J	16.7	—	11.4	24.1	—	3.88	—	18.6	**1.76 J**	0.0900 J	**72.0**	39.4	0.0142 J
	SB-2021-039:10.7-01252021	01/25/2021	10.7	5.35	73.9	0.0500 J	19.6	—	6.11	27.7	—	4.34	—	16.4	**1.61 J**	0.0600 J	**54.8**	37.5	0.0370
SB-2021-040	SB-2021-040:2-01282021	01/28/2021	2.0	2.21 J*	20.5	0.0600 J*	10.9	—	3.77	9.20	—	3.10	—	9.08	0.570 J	0.0300 J*	29.9	22.8	0.00918 J*
	SB-2021-040:5-01282021	01/28/2021	5.0	3.26	39.4	0.0500 J	11.5	—	5.67	13.2	—	2.67	—	11.1	**0.940 J**	0.0700 J	33.7	28.5	0.0209 J
	SB-2021-040:10.4-01282021	01/28/2021	10.4	6.51	44.2	0.0600 J	13.8	—	5.37	20.4	—	5.31	—	11.4	**0.970 J**	0.100 J	42.1	31.2	**0.338**
SB-2021-041	SB-2021-041:2-01282021	01/28/2021	2.0	2.18	19.7	0.0700 J*	9.14	—	4.30	10.2	—	1.73	—	8.76	0.660 J	0.0300 J	27.4	**87.4 J***	<0.00451
	SB-2021-106:2-01282021 (DUP)	01/28/2021	2.0	2.48	16.8	0.0400 J*	9.16	—	4.37	10.3	—	1.68	—	9.76	0.660 J	0.0400 J	28.2	40.6 J*	<0.00392
	SB-2021-041:6-01282021	01/28/2021	6.0	2.01	32.8	<0.0300	9.11	—	2.93	9.63	—	1.64	—	7.88	0.670 J	0.0400 J	28.9	21.8	<0.00448
	SB-2021-041:10.5-01282021	01/28/2021	10.5	2.44	40.5	<0.0400	13.5	—	4.22	16.0	—	2.91	—	9.72	**0.870 J**	0.0600 J	39.4	25.1	0.0129 J
SB-2020-045	SB-2020-045:2.8-11032020	11/03/2020	2.8	2.32	19.7	<0.0300	10.0	—	3.78	8.52	—	1.79	—	7.81	<0.460	0.0300 J	33.1	21.1	0.00655 J
	SB-2020-045:7.2-11032020	11/03/2020	7.2	1.76	21.0	<0.0300	8.50	—	3.50	7.97	—	1.33	—	6.89	<0.490	0.0300 J	28.2	19.3	0.00698 J
SB-2021-046	SB-2021-046:2-01262021	01/26/2021	2.0	2.29	24.5	<0.0300	11.0	—	4.60	9.47	—	1.78	—	9.01	0.710 J*	0.0300 J*	33.8	23.3	0.00833 J
	SB-2021-046:5.6-01262021	01/26/2021	5.6	2.22	21.4	0.0400 J	9.35	—	5.27	8.15	—	2.15	—	9.76	**0.880 J**	0.0300 J	33.3	25.6	0.0106 J
	SB-2021-046:10.7-01262021	01/26/2021	10.7	6.00	40.1	0.100 J	14.6	—	6.93	16.9	—	2.80	—	13.7	**1.60 J**	0.0700 J	**59.6**	30.9	0.0324
	SB-2021-046:13.9-1262021	01/26/2021	13.9	4.86	74.6	<0.0400	16.2	—	5.86	27.7	14900	3.46	—	14.2	**1.52**	0.120 J	**45.3**	32.0	—

Table 18: Metals in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Metals (mg/kg) SW6020/SM 3500-Cr B-09														SW7470
				Arsenic 7.3	Barium 250	Cadmium 0.77	Chromium 48	Chromium, hexavalent 0.0069 (0.4)	Cobalt 20	Copper 36	Iron 56000	Lead 56	Manganese 1100	Nickel 48	Selenium 0.78 (5)	Silver 0.610	Vanadium 45	Zinc 85	Mercury 0.07
SB-2021-047	SB-2021-047:1.5-02022021	02/02/2021	1.5	2.26	35.6	0.0700 J	28.3	—	7.06	13.1	—	3.66	—	37.5	0.770 J*	0.0500 J	33.3	31.1	0.0199 J*
	SB-2021-047:7.1-02022021	02/02/2021	7.1	**37.4**	56.8	0.110 J	14.2	—	5.83	20.9	—	10.5	—	11.2	**1.21 J***	0.0900 J	43.0	35.7	0.0541 J*
	SB-2021-047:10.5-02022021	02/02/2021	10.5	2.04	33.1	<0.0400	10.4	—	5.55	12.3	10200	1.62	—	8.89	0.770	0.0500 J	34.6	22.4	—
SB-2021-065	SB-2021-065:13-02022021	02/02/2021	13.0	3.37	34.3	<0.0300	16.6	—	5.47	25.0	—	7.30	—	24.5	**0.850**	0.0600 J	34.2	24.8	<0.0286 B*
SB-2021-068	SB-2021-068:1.0-01262021	01/26/2021	1.0	**13.5**	234	**5.09**	**1660**	<0.0594	5.02	**158**	—	**309**	—	**104**	**1.53 J**	0.590	**185**	**927**	0.00813 J
	SB-2021-068:5.5-01262021	01/26/2021	5.5	5.06	249	0.0900 J	**1600**	<0.0595	5.34	**44.9**	—	38.3	—	18.5	**1.34 J**	0.190 J	**238**	43.9	<0.00418
MW-10R	MW-10R:2-02052021	02/05/2021	2.0	3.97	51.0	0.0900 J	13.8	—	6.94	20.9	—	4.75	—	14.2	**2.00**	0.0900 J	39.0	39.5	<0.0375 B*
	MW-10R:5.4-02052021	02/05/2021	5.4	2.05	28.0	<0.0300	9.23	—	3.73	9.17	—	2.05	—	7.85	**1.31**	0.0400 J	30.2	21.7	<0.0241 B*
	MW-104:9-02052021 (DUP)	02/05/2021	9.0	4.39	65.5	0.130 J*	15.9	—	5.63	32.5	—	6.81	—	14.2	**1.77**	0.0700 J	41.0	41.9	<0.0431 B*
	MW-10R:9-02052021	02/05/2021	9.0	5.08	84.3	0.0500 J*	19.3	—	7.06	**38.8**	—	5.16	—	17.8	**2.61**	0.0600 J	**50.9**	40.9	<0.0420 B*
MW-22R	MW-22R:1.0-02032021	02/03/2021	1.0	2.64	31.1	<0.0300	11.2	—	5.30	17.7	—	3.00	—	8.73	**1.54**	0.0500 J	36.5	29.3	<0.00392
	MW-22R:5.5-02032021	02/03/2021	5.5	5.46	66.5	0.110 J	15.9	—	8.13	24.4	—	5.10	—	16.4	**2.56**	0.100 J	43.5	41.4	0.0531
	MW-22R:9.0-02032021	02/03/2021	9.0	6.04	76.7	0.110 J	20.0	—	7.08	28.5	—	11.4	—	18.8	**2.36**	0.0900 J	44.8	57.5	**0.0873**
	MW-22R:15.5-02032021	02/03/2021	15.5	1.18	28.8	<0.0400	9.50	—	3.97	11.1	—	1.54	—	8.31	**1.58**	0.0500 J	34.6	42.2	0.0184 J
	MW-22R:20.5-02032021	02/03/2021	20.5	4.37	20.8	<0.0400	13.7	—	5.87	11.5	—	1.40	—	11.6	**1.84**	0.0400 J	38.4	25.8	0.00841 J
MW-53	MW-53:1-02032021	02/03/2021	1.0	5.86	52.8	0.220	44.9	—	7.03	**40.3**	—	30.3	—	31.5	**1.54**	0.150 J	43.7	82.4	0.0450
	MW-53:9.5-02032021	02/03/2021	9.5	3.06	17.9	0.0700 J	9.66	—	3.23	12.7	—	1.69	—	7.71	**1.46**	0.0500 J	37.5	16.6	0.00981 J
	MW-53:11-02032021	02/03/2021	11.0	3.99	40.6	0.110 J	20.8	—	7.98	24.7	—	10.4	—	20.6	**1.20**	0.0700 J	34.3	41.9	0.0500
MW-54	MW-54:1-02032021	02/03/2021	1.0	3.93	23.7	0.180	16.5	—	4.67	16.3	—	**67.2**	—	11.5	**1.15**	0.0600 J	33.1	68.0	0.0134 J
	MW-102:5.5-02032021 (DUP)	02/03/2021	5.5	2.39	22.2	<0.0300	10.4	—	4.73	12.0	—	9.57	—	8.98	**1.42**	0.0400 J	32.6	23.7	0.0122 J
	MW-54:5.5-02032021	02/03/2021	5.5	1.83	23.8	<0.0300	10.3	—	4.93	17.9	—	16.2	—	9.91	**1.51**	0.0500 J	36.1	28.8	0.00840 J
	MW-54:9-02032021	02/03/2021	9.0	2.59	24.0	0.0400 J	19.1	—	5.50	10.8	—	2.72	—	11.2	**1.82**	0.0400 J	36.5	28.1	0.0114 J

Table 18: Metals in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Metals (mg/kg) SW6020/SM 3500-Cr B-09															SW7470
				Arsenic 7.3	Barium 250	Cadmium 0.77	Chromium 48	Chromium, hexavalent 0.0069 (0.4)	Cobalt 20	Copper 36	Iron 56000	Lead 56	Manganese 1100	Nickel 48	Selenium 0.78 (5)	Silver 0.610	Vanadium 45	Zinc 85	Mercury 0.07
MW-55	MW-55:1.5-02032021	02/03/2021	1.5	2.30	25.4	0.0400 J	12.0	—	4.51	10.5	—	2.25	—	10.0	**1.01**	0.0400 J	33.3	26.5	0.0172 J
	MW-55:5.5-02032021	02/03/2021	5.5	6.84	75.1	0.120 J	18.7	—	11.5	30.0	—	7.04	—	20.5	**2.74**	0.120 J	**53.6**	51.6	**0.0911**
	MW-55:9.5-02032021	02/03/2021	9.5	**11.6**	85.5	0.350	24.2	—	11.1	**51.4**	—	26.0	—	23.1	**4.05**	0.230 J	**71.3**	74.6	**0.203**
	MW-55:15.5-02032021	02/03/2021	15.5	2.87	40.2	0.0600 J	11.4	—	6.01	18.6	10600	2.12	—	11.7	**0.840**	0.0700 J	41.1	24.4	—
MW-56	MW-56:1.0-02022021	02/02/2021	1.0	4.55	45.1	0.520	15.8	—	4.79	20.1	—	48.9	—	13.9	**0.900**	0.110 J	40.9	80.4	<0.0350 B*
	MW-56:5.5-02022021	02/02/2021	5.5	**7.84**	92.6	0.160	22.3	—	10.3	**37.6**	—	9.16	—	21.8	**2.02**	0.180 J	**62.4**	59.0	**0.137**
	MW-101:8.0-02022021 (DUP)	02/02/2021	8.0	2.78	27.6	<0.0400	9.15	—	4.48	18.7 J*	—	2.28	—	7.95	**1.18**	0.0700 J*	33.2	23.4	<0.0245 B*
	MW-56:8.0-02022021	02/02/2021	8.0	2.14	27.1	<0.0400	9.83	—	4.49	10.4 J*	—	2.80	—	8.46	**1.02**	0.0400 J*	32.9	25.5	<0.0319 B*
MW-57	MW-57:5-01272021	01/27/2021	5.0	**8.50**	97.3	0.0900 J	21.7	—	8.72	**42.1**	—	9.77	—	19.7	**2.53 J**	0.170 J	**60.5**	59.4	**0.121**
	MW-57:6-01272021	01/27/2021	6.0	2.16	16.0	<0.0300	9.03	—	3.56	7.25	—	1.44	—	7.19	0.620 J	0.0200 J	29.7	20.3	0.0158 J
	MW-57:10-01272021	01/27/2021	10.0	4.57	83.4	0.0600 J	21.2	—	7.07	18.4	—	4.79	—	18.7	**1.16 J***	0.0700 J	**47.0**	45.3	0.0428
MW-58	MW-58:1.5-01272021	01/27/2021	1.5	3.26	38.9	0.0600 J	12.1	—	5.47	14.5	—	2.99	—	12.1	**1.20 J**	0.0500 J	35.3	29.6	0.0177 J
	MW-58:5.5-01272021	01/27/2021	5.5	1.93	21.3	<0.0300	10.8	—	3.35	7.41	—	1.81	—	8.22	**0.970 J**	0.0300 J	28.6	20.7	0.00921 J
	MW-58:8.4-01272021	01/27/2021	8.4	**8.10**	54.7	0.280	13.3	—	11.0	20.3	—	5.74	—	17.9	**0.900 J**	0.0700 J	42.1	43.2	0.0573
MW-59	MW-59:1.0-02032021	02/03/2021	1.0	3.72	162	0.0500 J	10.4	—	7.49	**47.9**	—	12.1	—	15.2	**2.60**	0.0800 J	36.7	35.5	<0.0257 B*
	MW-59:6.5-02032021	02/03/2021	6.5	2.79	34.9	0.0500 J	10.4	—	5.01	12.6	—	2.28	—	9.72	**1.44**	0.0600 J	34.7	24.4	<0.0267 B*
	MW-59:9.5-02032021	02/03/2021	9.5	6.92	87.2	0.120 J	17.9	—	10.9	30.9	—	6.28	—	18.7	**2.15**	0.110 J	**51.2**	59.1	0.0598 JH*
MW-60	MW-60:1.5-02012021	02/01/2021	1.5	2.22	26.9	<0.0300	11.3	—	3.92	9.68	—	1.99	—	9.49	0.630 J*	0.0500 J	34.5	22.3	0.0126 J*
	MW-60:5-02012021	02/01/2021	5.0	2.56	29.4	<0.0300	11.2	—	4.50	10.2	—	2.00	—	11.4	**1.01 J***	0.0700 J	34.9	23.0	0.0238 J*
	MW-60:9-02012021	02/01/2021	9.0	4.45	64.9	0.0500 J	18.2	—	6.74	20.7	—	4.33	—	14.9	**1.50 J***	0.0700 J	**48.2**	33.2	0.0356 J*
MW-61	MW-61:1.5-02012021	02/01/2021	1.5	**8.71**	33.9	0.110	**89.6**	—	7.09	**64.7**	—	30.5	—	**227**	**0.830 J***	0.100 J	38.0	33.7	0.0205 J*
	MW-61:6-02012021	02/01/2021	6.0	2.77	26.8	<0.0300	9.34	—	5.15	12.9	—	2.84	—	8.33	**0.900 J***	0.0400 J	30.7	23.7	0.00915 J*
	MW-61:11-02012021	02/01/2021	11.0	4.75	109	<0.0400	22.3	—	9.99	33.2	—	5.42	—	22.3	<0.600 J*	0.150 J	**60.9**	37.8	**0.0802 J***
	MW-61:16-02012021	02/01/2021	16.0	2.53	30.3	0.0500 J	12.4	—	4.45	14.2	12000	2.34	—	9.74	**1.00**	0.0500 J	42.4	23.5	—

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Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Metals (mg/kg) SW6020/SM 3500-Cr B-09															SW7470
				Arsenic 7.3	Barium 250	Cadmium 0.77	Chromium 48	Chromium, hexavalent 0.0069 (0.4)	Cobalt 20	Copper 36	Iron 56000	Lead 56	Manganese 1100	Nickel 48	Selenium 0.78 (5)	Silver 0.610	Vanadium 45	Zinc 85	Mercury 0.07
MW-62	MW-62:1-01272021	01/27/2021	1.0	3.25	43.9	<0.0400	12.6	—	5.63	12.3	—	3.23	—	11.1	**1.04 J**	0.0500 J	37.1	31.1	0.0203 J
	MW-62:5-01272021	01/27/2021	5.0	6.63	66.5	0.0800 J	17.0	—	7.81	25.7	—	7.71	—	16.4	**1.69 J**	0.120 J	**50.1**	45.3	0.0455
	MW-62:8.6-01272021	01/27/2021	8.6	5.25	62.5	0.0900 J	16.7	—	7.48	20.8	—	5.79	—	14.6	**1.57 J**	0.0900 J	**47.5**	40.6	0.0495
MW-64	MW-64:5.2-01282021	01/28/2021	5.2	2.79	30.6	0.0400 J	11.0	—	5.43	11.2	—	2.96	—	10.0	**0.910 J**	0.0400 J	34.1	30.1	0.0124 J
	MW-64:9.0-01282021	01/28/2021	9.0	4.13	16.3	<0.0400	9.25	—	3.24	7.82	—	1.38	—	6.85	0.570 J	0.0300 J	29.5	18.5	0.00718 J
	MW-64:14.0-01282021	01/28/2021	14.0	2.26	23.2	0.0400 J	9.15	—	3.16	10.1	—	1.36	—	6.99	**0.820 J**	0.0400 J	36.4	19.8	<0.00582
MW-65	MW-65:20-02052021	02/05/2021	20.0	2.40	58.7	0.0500 J	14.1	—	4.62	19.6	—	2.96	—	11.9	**2.46**	0.0700 J	44.3	25.3	<0.0227 B*
MW-66	MW-66:1.2-0112521	01/25/2021	1.2	3.27	53.6	0.430	19.2	—	4.57	20.0	—	13.8	—	19.5	**1.13 J**	0.0800 J	34.2	**538 D**	0.0194 J
	MW-66:5.5-0112521	01/25/2021	5.5	3.01	44.6	0.370	26.4	—	5.13	20.6	—	10.0	—	23.5	**1.15 J**	0.0800 J	36.1	**426 D**	0.0153 J
	MW-66:10.0-0112521	01/25/2021	10.0	3.57	72.0	0.270	17.3	—	10.6	28.4	—	3.90	—	20.6	**1.49 J**	0.100 J	**52.4**	**143**	0.0533
	MW-66:15.5-012521	01/25/2021	15.5	2.98	71.7	0.0700 J	15.1	—	9.89	21.5	13100	3.64	—	16.4	**1.45**	0.100 J	44.1	42.6	—
MW-67	MW-67:0.5-01262021	01/26/2021	0.5	3.75	34.6	0.290	25.0	<0.00995	5.13	**39.3**	—	25.1	—	18.2	0.610 J	0.0500 J	33.5	62.4	**0.0800**
	MW-67:5.5-01262021	01/26/2021	5.5	4.63	38.8	0.0500 J	11.9	<0.00995	5.24	15.3	—	3.27	—	10.1	**1.15 J**	0.0700 J	34.2	26.8	0.0446
	MW-67:9.0-01262021	01/26/2021	9.0	**8.53**	80.7	0.100 J	17.8	<0.0100	6.30	22.5	—	9.84	—	13.7	**1.51 J**	0.0800 J	**45.8**	48.1	**0.0757**
	MW-67:16.0-01262021	01/26/2021	16.0	—	—	—	—	<0.00995	—	—	—	—	—	—	—	—	—	—	—
	MW-67:20.5-01262021	01/26/2021	20.5	—	—	—	—	<0.0100	—	—	—	—	—	—	—	—	—	—	—
MW-68	MW-68:8.5-02022021	02/02/2021	8.5	**9.43**	210	0.310	**70.1**	<0.00600	9.21	**82.3**	—	34.6	—	44.4	**1.46**	0.190 J	39.8	57.0	<0.0284 B*
	MW-68:15.5-02022021	02/02/2021	15.5	1.51	16.9	<0.0400	8.33	—	2.65	6.56	7050	1.03	—	5.63	0.440 J	0.0300 J	30.1	15.6	—
MW-70	MW-70:0-02022021	02/02/2021	0.0	**12.7**	48.1	0.440	**122**	—	15.0	**189**	—	47.6	—	**662 D**	0.640	0.200 J	33.0	**149**	<0.0198 B*
	MW-70:4.3-02022021	02/02/2021	4.3	5.21	31.0	0.130	24.2	—	5.38	34.3	—	13.2	—	**112**	**1.14**	0.100 J	38.6	44.9	<0.0347 B*
	MW-70:8-02022021	02/02/2021	8.0	5.53	53.1	0.110 J	15.8	—	6.87	21.7	—	7.63	—	33.7	**1.00**	0.0700 J	**45.4**	35.8	<0.0324 B*
MW-71	MW-71:1.5-02042021	02/04/2021	1.5	2.82	22.4	<0.0300	9.91	—	5.71	12.3	—	2.55	—	8.84	**1.74**	0.0500 J	35.4	27.2	0.0159 J
	MW-71:5.0-02042021	02/04/2021	5.0	5.79	84.3	0.130 J	19.1	—	10.1	32.1	—	7.13	—	20.4	**2.78**	0.140 J	**50.6**	52.0	**0.118**
	MW-71:8.5-02042021	02/04/2021	8.5	**8.72**	86.0	0.280	21.2	—	8.19	31.0	—	17.3	—	20.1	**2.83**	0.110 J	**48.1**	72.9	**0.106**

Table 18: Metals in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Metals (mg/kg) SW6020/SM 3500-Cr B-09															SW7470
				Arsenic 7.3	Barium 250	Cadmium 0.77	Chromium 48	Chromium, hexavalent 0.0069 (0.4)	Cobalt 20	Copper 36	Iron 56000	Lead 56	Manganese 1100	Nickel 48	Selenium 0.78 (5)	Silver 0.610	Vanadium 45	Zinc 85	Mercury 0.07
MW-72	MW-72:1-022022021	02/02/2021	1.0	2.67	33.2	<0.0300	10.0	<0.00600	4.89	12.0	—	2.74	—	9.15	**0.920**	0.0500 J	33.4	25.6	<0.0253 B*
	MW-72:5-022022021	02/02/2021	5.0	2.16	18.8	<0.0300	12.3	<0.00590	4.10	8.94	—	1.52	—	8.66	0.690	0.0300 J	32.0	21.7	<0.0253 B*
	MW-72:10.9-022022021	02/02/2021	10.9	3.69	64.1	<0.0400	15.9	<0.00590	6.01	22.6	—	4.16	—	13.3	**0.960**	0.0900 J	42.0	29.2	<0.0420 B*
	MW-72:15-02022021	02/02/2021	15.0	2.47	30.3	0.0400 J	11.8	—	3.96	13.4	9820	2.18	—	8.24	**0.800**	0.0500 J	31.9	22.0	—
MW-73	MW-73:3.2-02022021	02/02/2021	3.2	2.14	19.1	<0.0300	11.5	—	4.52	9.18	—	1.95	—	9.34	<0.430 J*	0.0300 J	31.0	25.0	0.00998 J*
	MW-73:7-02022021	02/02/2021	7.0	1.81	27.2	<0.0300	10.4	—	4.14	11.9	—	1.77	—	8.06	**0.800 J***	0.0600 J	33.8	21.9	0.0127 J*
	MW-73:11-02022021	02/02/2021	11.0	4.79	45.0	0.0900 J	14.4	—	6.37	16.8	—	3.4	—	11.5	**1.28 J***	0.0600 J	38.7	41.3	0.0156 J*
	MW-73:15-02022021	02/02/2021	15.0	2.57	30.2	<0.0400	12.0	—	5.01	12.0	—	3.06	—	9.67	**1.05 J***	0.0500 J	39.0	25.4	0.0204 J*
	MW-73:17.7-02022021	02/02/2021	17.7	1.48	21.1	<0.0400	8.67	—	4.99	8.58	—	1.22	—	7.31	**0.820 J***	0.0400 J	35.1	18.7	0.00631 J*
MW-74	MW-74:3-02022021	02/02/2021	3.0	2.71	35.0	<0.0300	9.74	—	4.51	10.5	—	2.05	—	8.00	**0.820 J***	0.0500 J	33.3	25.2	0.0153 J*
	MW-74:6-02022021	02/02/2021	6.0	2.26	19.3	<0.0300	10.5	—	3.73	7.47	—	1.57	—	7.37	0.690 J*	0.0400 J	33.3	24.2	0.0161 J*
	MW-101:10.3-02022021 (DUP)	02/02/2021	10.3	3.00	66.8	<0.0400	17.6	—	6.25	18.9	—	3.61	—	14.6	**1.22 J***	0.0800 J	**52.4**	38.7	0.0406 J*
	MW-74:10.3-02022021	02/02/2021	10.3	3.27	67.8	<0.0400	17.4	—	6.42	22.8	—	3.85	—	15.0	**1.46 J***	0.110 J	**52.0**	39.6	0.0365 J*
	MW-74:15-02022021	02/02/2021	15.0	3.51	42.2	0.0600 J	28.6	—	7.23	34.8	17500	7.65	—	32.3	**1.13**	0.0800 J	44.7	35.9	—
MW-75	MW-75:1.5-01282021	01/28/2021	1.5	3.11	36.1	<0.0300	12.0	—	5.01	13.4	—	3.33	—	10.5	**0.800 J**	0.0600 J	32.1	29.9	0.0137 J
	MW-75:6.0-01282021	01/28/2021	6.0	1.75	25.9	<0.0300	9.88	—	4.01	9.27	—	2.26	—	7.64	**0.830 J**	0.0300 J	29.9	35.5	0.00703 J
	MW-75:8.5-01282021	01/28/2021	8.5	4.25	73.1	0.160	16.6	—	5.93	24.5	—	9.13	—	14.9	**1.31 J**	0.0800 J	40.3	48.1	0.0605
MW-76	MW-76:1.5-01262021	01/26/2021	1.5	2.50	35.0	<0.0300	13.4	<0.0100	5.09	10.6	—	2.73	—	10.7	0.690 J	0.0400 J	38.9	28.0	0.0185 J
	MW-100:5.0-01262021 (DUP)	01/26/2021	5.0	**8.20 J***	107 J*	0.240 J*	25.9	<0.00995	12.5	**45.6 J***	—	11.6 J*	—	25.8 J*	**2.76 J***	0.200 J*	**70.3**	68.8 J*	**0.153 J***
	MW-76:5.0-01262021	01/26/2021	5.0	4.61 J*	61.0 J*	0.0700 J*	16.7	<0.0100	10.5	20.1 J*	—	4.17 J*	—	14.7 J*	**1.26 J***	0.0700 J*	**45.8**	38.1 J*	0.0676 J*
	MW-76:15.5-01262021	01/26/2021	15.5	**7.62**	48.6	0.150	14.6	—	6.66	26.6	18600	8.74	—	13.8	**1.30**	0.130 J	44.8	42.9	—
Decon Water[1]	AugerWater-01292021	01/29/2021	Water	0.00142	0.00760	0.0000540 J*	0.00141	—	0.000298	0.00183	—	0.000612 J*	0.00961	0.00144	<0.000440	<0.0000170	0.00320	0.0340	<0.0000130
	ProbeWater-01292021	01/29/2021	Water	0.00119	0.00449	<0.0000300	0.000575	—	0.0000630 J	0.00211	—	0.000103	0.00309	0.000281 J	<0.000440	<0.0000170	0.00274	2.71	<0.0000130

Table 18: Metals in Soil

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Metals (mg/kg) SW6020/SM 3500-Cr B-09 Arsenic 7.3	Barium 250	Cadmium 0.77	Chromium 48	Chromium, hexavalent 0.0069 (0.4)	Cobalt 20	Copper 36	Iron 56000	Lead 56	Manganese 1100	Nickel 48	Selenium 0.78 (5)	Silver 0.610	Vanadium 45	Zinc 85	SW7470 Mercury 0.07
Equipment Blank Samples[1]	EB-1-11052020	11/05/2020	EB	0.00119	0.00309	<0.0000300	0.000536	—	<0.0000290	0.00106	<0.0200 B*	<0.0000680	0.00130	0.0000880 J	<0.000440	<0.0000170	0.00267	0.798	<0.0000130
	EB-2-11062020	11/06/2020	EB	<0.0000220	<0.0000560	<0.0000300	<0.000130	—	<0.0000290	<0.000340	<0.00627	<0.0000680	0.000103 J	<0.0000500	<0.000440	<0.0000170	<0.0000400	0.00153 J	<0.0000130
	EB-3-11062020	11/06/2020	EB	<0.0000220	<0.0000560	<0.0000300	<0.000130	—	<0.0000290	<0.000340	<0.0200 B*	<0.0000680	<0.0000850	<0.0000500	<0.000440	<0.0000170	<0.0000400	0.000893 J	<0.000100 B*

NOTES:

Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

1 Decontamination water and equipment blank sample results presented in mg/L.
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
B* Result is included in the same preparatory batch as a blank detection for the associated analyte. Result is considered non-detect. Flag applied by Shannon & Wilson (*).
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*).
JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).
D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
bgs = below ground surface; DUP = field duplicate; EB = equipment blank; mg/kg = milligrams per kilogram; mg/L = milligrams per liter

Table 19A: Soil Sample Results for Unpaved Locations Within the Melt, Forge, and Heat Treat Shops

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Sample Type	Metals (mg/kg) SW6020 Arsenic 7.3	Barium 250	Cadmium 0.77	Chromium 48	Cobalt 24	Copper 36	Lead 56	Nickel 48	Selenium 0.78 (5)	Silver 0.610	Vanadium 45	Zinc 85	SW7470 Mercury 0.07
HA-2020-001	HA-2020-001:0-11022020	11/02/2020	0.0	Upper Soil	**14.7**	106	**3.41**	**335**	12.0	**983**	**410**	**201**	**4.42**	0.450	35.7	**543**	**0.167**
	HA-2020-001:0.5-11022020	11/02/2020	0.5	Lower Soil	**21.2**	88.7	0.320	41.8	—	**141**	**57.1**	**109**	0.750 J	0.130 J	33.6	**178**	**0.112 JL***
HA-2020-002	HA-2020-002:0-11022020	11/02/2020	0.0	Upper Soil	5.10	139	**1.84**	**2330**	9.42	**1150**	**279**	**542**	**21.0**	**2.16**	21.8	**1550**	0.0436
	HA-2020-002:0.5-11022020	11/02/2020	0.5	Lower Soil	—	134	**1.18**	**3650**	—	**1240**	**178**	**775**	**10.7**	**1.81**	<4.12	**924**	—
HA-2020-003	HA-2020-003:0-11022020	11/02/2020	0.0	Loose Dust	**9.71**	**261**	—	**1400**	—	**514**	**219**	**819**	**17.0**	**2.28**	**69.6**	**694**	—
	HA-2020-003:0.2-11022020	11/02/2020	0.2	Upper Soil	**9.20**	181	0.640	**1800**	11.4	**371**	**103**	**673 J***	**19.5**	**1.41**	**110**	**347**	0.0244 J
	HA-2020-100:0.2-11022020 (DUP)	11/02/2020	0.2	Upper Soil	**10.0**	111	0.500	**2430**	13.3	**361**	**87.8**	**1180 J***	**13.9**	**1.33**	**91.9**	**221**	0.0214 J
	HA-2020-003:0.7-11022020	11/02/2020	0.7	Lower Soil	**8.16**	**318**	—	**1630**	—	**435**	**114**	**672**	**7.76**	**1.64**	**79.3**	**218**	—
HA-2020-004	HA-2020-004:0-11022020	11/02/2020	0.0	Loose Dust	**25.2**	**265**	—	**944**	**27.3**	**682**	**246**	**1960**	**1.36 J**	**2.03**	**70.3**	—	—
	HA-2020-004:0.2-11022020	11/02/2020	0.2	Upper Soil	**19.1**	108	0.370	**889**	**29.0**	**418**	**87.1**	**2540**	0.470 J	**1.09**	**94.5**	81.8	0.0127 J
	HA-2020-004:0.7-11022020	11/02/2020	0.7	Lower Soil	**7.86**	71.3	—	**143**	9.42	**153**	36.1	**309**	0.560 J	0.280	37.2	—	—
HA-2020-005	HA-2020-005:0-11022020	11/02/2020	0.0	Upper Soil	**35.2**	114	**3.33**	**5330**	**59.2**	**1190**	**322**	**4460**	**5.03**	**2.66**	**16.8 J**	**954**	**0.184**
	HA-2020-005:0.5-11022020	11/02/2020	0.5	Lower Soil	**31.7**	82.4	**2.14**	**373**	10.7	**172**	**94.3**	**409**	**1.21 J**	**0.700**	44.3	**238**	**0.102 JL***
HA-2020-006	HA-2020-006:0-11022020	11/02/2020	0.0	Loose Dust	**17.8**	—	—	**5690**	—	**611**	—	**4080**	<0.410	0.360 J	**89.9**	—	—
	HA-2020-006:0.3-11022020	11/02/2020	0.3	Upper Soil	**9.00**	5.83	0.300	**6620**	19.6	**583**	8.52	**2980**	<0.420	0.0900 J	**50.8**	79.3	0.00577 J
	HA-2020-006:0.8-11022020	11/02/2020	0.8	Lower Soil	6.93	—	—	**2490**	—	**199**	—	**1410**	0.560 J	0.0900 J	38.0	—	—
HA-2020-007	HA-2020-007:0-11022020	11/02/2020	0.0	Loose Dust	**39.2 J***	43.0	—	**673 J***	**37.3 J***	**946**	**585 J***	**4230 J***	0.940 JL*	0.560	**48.9**	**170**	—
	HA-2020-007:0.25-11022020	11/02/2020	0.3	Upper Soil	**42.0**	67.5	0.430	**469**	**31.0**	**716**	55.0	**3090**	<1.97 J*	0.320	**55.1**	**98.6 J***	<0.00429
	HA-2020-007:0.8-11022020	11/02/2020	0.8	Lower Soil	**54.5**	37.4	—	**528**	**32.7**	**979**	47.0	**3710**	<0.440	0.270	**47.3**	63.7	—
HA-2020-008	HA-2020-008:0-11022020	11/02/2020	0.0	Upper Soil	**18.3**	113	**1.68**	**148**	13.2	**181**	**205**	**401**	0.760 J	**1.05**	**67.7**	**180**	0.0523
	HA-2020-008:0.5-11022020	11/02/2020	0.5	Lower Soil	4.55	53.6	0.290	12.1	—	23.3	13.9	39.3	**0.790 J**	0.0600 J	39.1	60.6	—

NOTES:
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Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).
bgs = below ground surface; DUP = field duplicate; mg/kg = milligrams per kilogram

Table 19B: Soil Sample Results for Unpaved Locations within the Melt, Forge, and Heat Treat Shops

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	PCBs (mg/kg) SW8082A									
				Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.0000005 (0.02)
HA-2020-001	HA-2020-001:0-11022020	11/02/2020	Surface	<0.00640	<0.00640	<0.00640	<0.00640	<0.00640	0.0575	0.0397	—	—	**0.0972**
	HA-2020-001:0.5-11022020	11/02/2020	0.5	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.0683 D	0.0405 D	<0.00290	<0.00290	**0.1088 D**
HA-2020-002	HA-2020-002:0-11022020	11/02/2020	Surface	<0.00140	<0.00140	<0.00140	<0.00140	0.00730 J	0.00890	0.0147 J	—	—	**0.0309 J**
	HA-2020-002:0.5-11022020	11/02/2020	0.5	<0.00160	<0.00160	<0.00160	<0.00160	0.00310 J	0.00410	0.00380 J	—	—	**0.011 J**
HA-2020-003	HA-2020-003:0-11022020	11/02/2020	Surface	<0.00160	<0.00160	<0.00160	<0.00160	0.0251	0.0223	0.0265	—	—	**0.0739**
	HA-2020-003:0.2-11022020	11/02/2020	0.2	<0.00130	<0.00130	<0.00130	<0.00130	0.0183	0.0117 J	0.00840	—	—	**0.0384 J**
	HA-2020-100:0.2-11022020 (DUP)	11/02/2020	0.2	<0.00130	<0.00130	<0.00130	<0.00130	0.0170	0.0104 J	0.00650 J	—	—	**0.0339 J**
	HA-2020-003:0.7-11022020	11/02/2020	0.7	<0.00160	<0.00160	<0.00160	<0.00160	0.0224	0.0136	0.0133	—	—	**0.0493**
HA-2020-004	HA-2020-004:0-11022020	11/02/2020	Surface	—	—	—	—	—	—	—	—	—	—
	HA-2020-004:0.2-11022020	11/02/2020	0.2	—	—	—	—	—	—	—	—	—	—
	HA-2020-004:0.7-11022020	11/02/2020	0.7	—	—	—	—	—	—	—	—	—	—
HA-2020-005	HA-2020-005:0-11022020	11/02/2020	Surface	—	—	—	—	—	—	—	—	—	—
	HA-2020-005:0.5-11022020	11/02/2020	0.5	<0.00160	<0.00160	<0.00160	<0.00160	0.00820	0.0252	0.0590	—	—	**0.0924**
HA-2020-006	HA-2020-006:0-11022020	11/02/2020	Surface	—	—	—	—	—	—	—	—	—	—
	HA-2020-006:0.3-11022020	11/02/2020	0.3	—	—	—	—	—	—	—	—	—	—
	HA-2020-006:0.8-11022020	11/02/2020	0.8	—	—	—	—	—	—	—	—	—	—
HA-2020-007	HA-2020-007:0-11022020	11/02/2020	Surface	—	—	—	—	—	—	—	—	—	—
	HA-2020-007:0.25-11022020	11/02/2020	0.3	—	—	—	—	—	—	—	—	—	—
	HA-2020-007:0.8-11022020	11/02/2020	0.8	—	—	—	—	—	—	—	—	—	—
HA-2020-008	HA-2020-008:0-11022020	11/02/2020	Surface	—	—	—	—	—	—	—	—	—	—
	HA-2020-008:0.5-11022020	11/02/2020	0.5	—	—	—	—	—	—	—	—	—	—

NOTES:
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Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
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Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
bgs = below ground surface; DUP = field duplicate; mg/kg = milligrams per kilogram; PCB = polychlorinated biphenyl

Table 20: Tote Storage Area Soil and Pavement Sample Results

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	PCBs (mg/kg) SW8082A										VOCs (mg/kg) 8260D
				Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.0000005 (0.02)	Benzene 0.00056 (0.001)
Inside of the Tote Storage Area (TSA)														
TSA-2020-001	TSA-Concrete-002:0.6-11032020	11/03/2020	0.6	—	—	<0.0155	<0.0155	<0.0155	<0.0155	0.159	0.417	0.188	**0.764**	<0.00590
	TSA-2020-001:1.4-11032020	11/03/2020	1.4	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00160 J	<0.000600	0.00190 J	<0.000600	**0.00350 J**	—
	TSA-2020-001:1.9-11032020	11/03/2020	1.9	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0206	0.0445 J*	—	—	**0.0651 J***	—
TSA-2020-002	TSA-Concrete-001:0.6-11032020	11/03/2020	0.6	<0.00160	<0.00160	<0.00160	<0.00160	0.00960	0.0292	0.0178	<0.000600	<0.000600	**0.0566**	—
	TSA-2020-002:1.5-11032020	11/03/2020	1.5	<0.00760	<0.00760	<0.00760	<0.00760	<0.00760	1.24	0.236	<0.00290	<0.00290	**1.476**	—
	TSA-2020-002:2-11032020	11/03/2020	2.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00280 J	0.000900 J	—	—	**0.00370 J**	—
TSA-2020-003	TSA-2020-003:1.5-11032020	11/03/2020	1.5	<0.00310	<0.00310	<0.00310	<0.00310	<0.00310	0.509	0.147 J	<0.00120	<0.00120	**0.656 J**	—
	TSA-2020-003:2-11032020	11/03/2020	2.0	<0.0310	<0.0310	<0.0310	<0.0310	<0.0310	0.618	0.155	—	—	**0.773**	—
Outside of the Tote Storage Area (TSA)														
TSA-2021-004	Asphalt-001-01252021	01/25/2021	Surface	<0.0779	<0.0779	<0.0779	<0.0779	<0.0779	3.40 D	5.27 D	—	—	**8.67 D**	—
	TSA-2021-004:1.2-01252021	01/25/2021	1.2	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.304 D	0.286 D	—	—	**0.59 D**	—
	TSA-2021-004:1.7-01252021	01/25/2021	1.7	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	0.537 JH*	<0.00580	<0.00580	0.225 JH*	**0.762 JH***	—
	TSA-2021-004:3-01252021	01/25/2021	3.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00360 J	<0.000600	<0.000600	0.00210 J	**0.00560 J**	—
TSA-2021-005	TSA-2021-005:1.2-01252021	01/25/2021	1.2	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.226 D	0.205 D	—	—	**0.431 D**	—
	TSA-2021-100:1.2-01252021 (DUP)	01/25/2021	1.2	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.322 D	0.148 D	—	—	**0.470 D**	—
	TSA-2021-005:1.7-01252021	01/25/2021	1.7	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	<0.000600	<0.000600	<0.00160	—
	TSA-2021-005:3-01252021	01/25/2021	3.0	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.000900 J	<0.000600	<0.000600	**0.000900 J**	—
TSA-2021-006	Asphalt-002-01252021	01/25/2021	Surface	<0.0391	<0.0391	<0.0391	<0.0391	<0.0391	0.182 D	0.261 D	—	—	**0.443 D**	—
	TSA-2021-006:1.2-01252021	01/25/2021	1.2	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00140 J	—	—	**0.00140 J**	—
	TSA-2021-006:1.7-01252021	01/25/2021	1.7	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	<0.000600	<0.000600	<0.00160	—
TSA-2021-007	TSA-2021-007:0.8-01292021	01/29/2021	0.8	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00920	0.0188	—	—	**0.0280**	—
	TSA-2021-007:1.3-01292021	01/29/2021	1.3	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	<0.000600	<0.000600	<0.00160	—

NOTES:

Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*).
D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
bgs = below ground surface; DUP = field duplicate; mg/kg = milligrams per kilogram; PCB = polychlorinated biphenyl; TSA = Tote Storage Area; VOC = volatile organic compound

Table 21: Petroleum Hydrocarbons and Polychlorinated Biphenyls in Soil South of Boeing OA-11

				Petroleum Hydrocarbons (mg/kg) NWTPH-Dx			PCBs (mg/kg) SW8082A									
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Diesel Range Organics 2000 (NA)	Residual Range Organics 2000 (NA)	Total Diesel and Residual Range Organics 2000 (NA)	Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.0000005 (0.02)
SB-2021-018	SB-2021-018:1.5-01272021	01/27/2021	1.5	44.2	152	196.2										
	SB-2021-018:2.5-01272021	01/27/2021	2.5	85.9	391	476.9	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	0.185	—	—	**0.185**
	SB-2021-018:5.5-01272021	01/27/2021	5.5	165	537	702	<0.0387	<0.0387	<0.0387	<0.0387	<0.0387	<0.0387	1.10	—	—	**1.10**
	SB-2021-018:7.2-01272021	01/27/2021	7.2	421	778	1199	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0298	—	—	**0.0298**
	SB-2021-018:8.2-01272021	01/27/2021	8.2	350	649	999	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00480	<0.000600	<0.000600	0.0307	**0.0355**
	SB-2021-018:11-01272021	01/27/2021	11.0	13.4	38.1	51.5	—	—	—	—	—	—	—	—	—	—
SB-2021-019	SB-2021-019:0.8-01272021	01/27/2021	0.8	59.5	177	236.5	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	0.200	0.402	—	—	**0.602**
	SB-2021-019:2.5-01272021	01/27/2021	2.5	51.6	238	289.6	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	0.184	—	—	**0.184**
	SB-2021-019:5-01272021	01/27/2021	5.0	22.7	98.5	121.2	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	0.0601	—	—	**0.0601**
	SB-2021-019:7-01272021	01/27/2021	7.0	<6.77	25.9	25.9	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	0.0166 J*	—	—	**0.0166 J***
SB-2021-020	SB-2021-020:1.5-01272021	01/27/2021	1.5	12.4	48.7	61.1	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0314	—	—	**0.0314**
	SB-2021-020:2.2-01272021	01/27/2021	2.2	1930	**3060**	**4990**	<7.76	<7.76	<7.76	<7.76	<7.76	<7.76	144	—	—	**144**
	SB-2021-020:6-01272021	01/27/2021	6.0	<6.60	22.1	22.1	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0403	—	—	**0.0403**
	SB-2021-020:7-01272021	01/27/2021	7.0	6.96	38.4	45.36	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00930	—	—	**0.00930**
SB-2021-021	SB-2021-021:1.5-01272021	01/27/2021	1.5	37.3	168	205.3	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	0.0649	—	—	**0.0649**
	SB-2021-021:2.5-01272021	01/27/2021	2.5	<6.62	<13.2 J*	ND	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	0.00210 J*	—	—	**0.00210 J***
	SB-2021-103:2.5-01272021 (DUP)	01/27/2021	2.5	<6.37	13.7 J*	13.7 J*	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00120 J*	—	—	**0.00120 J***
	SB-2021-021:5.2-01272021	01/27/2021	5.2	23.1	97.2	120.3	<0.0154	<0.0154	<0.0154	<0.0154	<0.0154	<0.0154	0.267	—	—	**0.267**
	SB-2021-021:7-01272021	01/27/2021	7.0	<5.46	<10.9	ND	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.000600	—	—	<0.00150
SB-2021-022	SB-2021-022:1.5-01272021	01/27/2021	1.5	14.1	59.2	73.3	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	0.0232	—	—	**0.0232**
	SB-2021-022:2.5-01272021	01/27/2021	2.5	<6.75	27.2	27.2	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	0.00940	—	—	**0.00940**
	SB-2021-022:5.5-01272021	01/27/2021	5.5	<5.21	<10.4	ND	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.000600	—	—	<0.00150
	SB-2021-022:7-01272021	01/27/2021	7.0	<5.41	<10.8	ND	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.000600	—	—	<0.00150

Table 21: Petroleum Hydrocarbons and Polychlorinated Biphenyls in Soil South of Boeing OA-11

				Petroleum Hydrocarbons (mg/kg) NWTPH-Dx			PCBs (mg/kg) SW8082A									
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Diesel Range Organics 2000 (NA)	Residual Range Organics 2000 (NA)	Total Diesel and Residual Range Organics 2000 (NA)	Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.0000005 (0.02)
SB-2021-023	SB-2021-023:1.5-01272021	01/27/2021	1.5	7.33	17.7	25.03	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	0.00190 J	—	—	**0.00190 J**
	SB-2021-023:2.7-01272021	01/27/2021	2.7	30.1	117	147.1	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00180 J	—	—	**0.00180 J**
	SB-2021-023:5.5-01272021	01/27/2021	5.5	7.66	42.6	50.26	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00950	0.0177	—	—	**0.0272**
	SB-2021-023:7-01272021	01/27/2021	7.0	8.08	52.2	60.28	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00120 J	—	—	**0.00120 J**
SB-2021-024	SB-2021-024:0.5-01272021	01/27/2021	0.5	83.7	237	320.7	<0.00770	<0.00770	<0.00770	<0.00770	<0.00770	0.0388	0.0750 J*	—	—	**0.1138 J***
	SB-2021-024:2.4-01272021	01/27/2021	2.4	22.7	85.6	108.3	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00160 J	—	—	**0.00160 J**
	SB-2021-024:5.6-01272021	01/27/2021	5.6	<6.67	18.0	18.0	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	0.000700 J	—	—	**0.000700 J**
	SB-2021-024:7-01272021	01/27/2021	7.0	15.9	121	136.9	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00330 J	—	—	**0.00330 J**
SB-2021-025	SB-2021-025:1.5-01272021	01/27/2021	1.5	17.0	58.2	75.2	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00240 J	0.00740	—	—	**0.0098 J**
	SB-2021-025:2.5-01272021	01/27/2021	2.5	7.71	17.4	25.11	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0695	—	—	**0.0695**
	SB-2021-025:5.5-01272021	01/27/2021	5.5	10.8	23.8	34.6	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.167	0.440	—	—	**0.607**
	SB-2021-025:6.5-01272021	01/27/2021	6.5	<7.16	25.5	25.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0702	—	—	**0.0702**
	SB-2021-025:10-1272021	01/27/2021	10.0	—	—	—	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0520 J*	0.0768	<0.000600	<0.000600	**0.1288 J***
	SB-2021-025:11-1272021	01/27/2021	11.0	—	—	—	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00170 J	0.00170 J	<0.000600	<0.000600	**0.0034 J**
SB-2021-026	SB-2021-026:1.5-01272021	01/27/2021	1.5	<5.30	15.7	15.7	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0128	—	—	**0.0128**
	SB-2021-026:3-01272021	01/27/2021	3.0	<6.25	<12.5	ND	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00140 J	—	—	**0.00140 J**
	SB-2021-026:5.5-01272021	01/27/2021	5.5	<5.40	<10.8	ND	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.000800 J	—	—	**0.000800 J**
	SB-2021-026:7-01272021	01/27/2021	7.0	<5.66	<11.3	ND	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	—	—	<0.00160
SB-2021-048	SB-2021-048:1.5-10042021	10/04/2021	1.5	314 D	996 D	1310 D	<0.0156	<0.0156	<0.0156	<0.0156	<0.0156	0.0490 JH*	<0.00590	<0.00590	0.571 JH*	**0.620 JH***
	SB-2021-048:2.2-10042021	10/04/2021	2.2	409 D	1030 D	1439 D	<0.426	<0.426	<0.426	<0.426	<0.426	<0.426	9.87 D	<0.161	<0.161	**9.87 D**
	SB-2021-048:6-10042021	10/04/2021	6.0	69.7	236	305.7	<0.0156	<0.0156	<0.0156	<0.0156	<0.0156	<0.0156	<0.00590	0.0499 D	<0.00590	**0.0499 D**
	SB-2021-048:8.5-10042021	10/04/2021	8.5	152	307	459	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	<0.000600	0.00780 J*	**0.00780 J***

Table 21: Petroleum Hydrocarbons and Polychlorinated Biphenyls in Soil South of Boeing OA-11

				Petroleum Hydrocarbons (mg/kg) NWTPH-Dx			PCBs (mg/kg) SW8082A									
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Diesel Range Organics 2000 (NA)	Residual Range Organics 2000 (NA)	Total Diesel and Residual Range Organics 2000 (NA)	Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.0000005 (0.02)
SB-2021-049	SB-2021-049:1-10042021	10/04/2021	1.0	184 D	560 D	744 D	<0.0447 J*	<0.0447	<0.0447	<0.0447	<0.0447	0.138 D	<0.0169	<0.0169	0.477 D	**0.615 D**
	SB-2021-049:2.2-10042021	10/04/2021	2.2	493 D	1190 D	1683 D	<0.910	<0.910	<0.910	<0.910	<0.910	10.7 D	1.54 J, D	<0.343	<0.343	**12.24 J, D**
	SB-2021-049:6.5-10042021	10/04/2021	6.5	302 D	459 D	761 D	<0.0156	<0.0156	<0.0156	<0.0156	<0.0156	0.205 D	0.0990 D	<0.00590	<0.00590	**0.304 D**
	SB-2021-049:7.5-10042021	10/04/2021	7.5	304 D	437 D	741 D	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00430	<0.000600	<0.000600	0.0369 J*	**0.0412 J***
SB-2021-050	SB-2021-050:0.5-10042021	10/04/2021	0.5	38.9	186	224.9	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00980	0.0287	<0.000600	<0.000600	**0.0385**
	SB-2021-050:2.5-10042021	10/04/2021	2.5	**3800 D**	**4770 D**	**8570 D**	<1.27	<1.27	<1.27	<1.27	<1.27	<1.27	447 D	<2.44	<2.44	**447 D**
	SB-2021-050:6.5-10042021	10/04/2021	6.5	16.1	37.5	53.6	<0.0156	<0.0156	<0.0156	<0.0156	<0.0156	<0.0156 J*	0.539 D	<0.00590	<0.00590	**0.539 D**
	SB-2021-Dup	10/04/2021	6.5	26.7	53.2	79.9	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.178 J*	0.535 D	<0.00290	<0.00290	**0.713 J*, D**
	SB-2021-050:7.5-10042021	10/04/2021	7.5	13.8	44.2	58	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0104	0.0336	<0.000600	<0.000600	**0.044**
SB-2021-051	SB-2021-051:1.2-10042021	10/04/2021	1.2	68.4	166	234.4	<0.0156	<0.0156	<0.0156	<0.0156	<0.0156	0.227 JH*	<0.00590	0.744 JH*	<0.00590	**0.971 JH***
	SB-2021-051:2.4-10042021	10/04/2021	2.4	17.0	40.5	57.5	<0.156	<0.156	<0.156	<0.156	<0.156	<0.156	4.77 D	<0.0589	<0.0589	**4.77 D**
	SB-2021-051:6.5-10042021	10/04/2021	6.5	21.2	47.1	68.3	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.0531 D	0.120 D	<0.00290	<0.00290	**0.1731 D**
	SB-2021-051:8.0-10042021	10/04/2021	8.0	26.9	57.7	84.6	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0109	0.0330 J*	<0.000600	<0.000600	**0.0439 J***
	SB-2021-051:10.5-10042021	10/04/2021	10.5	73.7	112	185.7	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.0581 D	0.165 D	<0.00290	<0.00290	**0.2231 D**
	SB-2021-051:12.5-10042021	10/04/2021	12.5	<6.40	<12.8	ND	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	0.00190 J	<0.000600	<0.000600	**0.00190 J**
SB-2021-052	SB-2021-052:0.1-10042021	10/04/2021	0.1	64.6	256	320.6	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	<0.000600	0.0593 J*	**0.0593 J***
	SB-2021-052:2.4-10042021	10/04/2021	2.4	24.2	82.1	106.3	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	<0.000600	0.00940 J*	**0.00940 J***
	SB-2021-052:6.0-10042021	10/04/2021	6.0	<6.65	20.8	20.8	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.000700 J	<0.000600	<0.000600	**0.000700 J**
	SB-2021-052:7.7-10042021	10/04/2021	7.7	<6.61	30.5	30.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	<0.000600	0.00470	**0.00470**
SB-2021-053	SB-2021-053:1.0-10042021	10/04/2021	1.0	27.7	90.1	117.8	<0.0155	<0.0155	<0.0155	<0.0155	<0.0155	0.0948 D	<0.00590	0.359 D	<0.00590	**0.4538 D**
	SB-2021-053:2.8-10042021	10/04/2021	2.8	**2030 D**	**3030 D**	**5060 D**	<4.51	<4.51	<4.51	<4.51	<4.51	<4.51	998 D	<8.64	<8.64	**998 D**
	SB-2021-053:11.0-10042021	10/04/2021	11.0	<6.21	<12.4	ND	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.341 D	0.755 D	<0.00290	<0.00290	**1.096 D**
	SB-2021-053:13.0-10042021	10/04/2021	13.0	<6.51	<13.0	ND	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00280 J	0.00660	<0.000600	<0.000600	**0.00940 J***

Table 21: Petroleum Hydrocarbons and Polychlorinated Biphenyls in Soil South of Boeing OA-11

				Petroleum Hydrocarbons (mg/kg) NWTPH-Dx			PCBs (mg/kg) SW8082A									
Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Diesel Range Organics 2000 (NA)	Residual Range Organics 2000 (NA)	Total Diesel and Residual Range Organics 2000 (NA)	Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.0000005 (0.02)
SB-2021-054	SB-2021-054:0.5-10042021	10/04/2021	0.5	24.0	243	267	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0495	<0.000600	0.159	<0.000600	**0.2085**
	SB-2021-054:2.5-10042021	10/04/2021	2.5	<6.44	22.1	22.1	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00180 J	<0.000600	<0.000600	0.00310 J	**0.0049 J**
	SB-2021-054:5.9-10042021	10/04/2021	5.9	6.76	27.9	34.66	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	0.00500	<0.000600	**0.00500**
	SB-2021-054:7.0-10042021	10/04/2021	7.0	15.2	83.7	98.9	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	<0.000600	0.0235	**0.0235**
SB-2021-055	SB-2021-055:0.5-10042021	10/04/2021	0.5	16.2	66.8	83	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.238 D	<0.00290	0.365 D	<0.00290	**0.603 D**
	SB-2021-055:2.2-10042021	10/04/2021	2.2	<5.60	<11.2	ND	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	0.00270 J	<0.000600	**0.00270 J**
	SB-2021-055:5.5-10042021	10/04/2021	5.5	<6.10	24.6	24.6	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00840	<0.000600	0.0228	<0.000600	**0.0312**
	SB-2021-055:7.5-10042021	10/04/2021	7.5	<6.60	45.2	45.2	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.00120 J	<0.000600	<0.000600	**0.00120 J**
SB-2021-056	SB-2021-056:1.0-10042021	10/04/2021	1.0	32.4	121	153.4	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.156 D	<0.00290	0.429 D	<0.00290	**0.585 D**
	SB-2021-056:2.5-10042021	10/04/2021	2.5	36.3	77.8	114.1	<0.155	<0.155	<0.155	<0.155	<0.155	5.08 D	7.74 D	<0.0587	<0.0587	**12.82 D**
	SB-2021-056:5.5-10042021	10/04/2021	5.5	13.3	44.0	57.3	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0460	<0.000600	0.123 J*	<0.000600	**0.169 J***
	SB-2021-056:7.7-10042021	10/04/2021	7.7	10.0	45.7	55.7	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	0.00510	0.00940	<0.000600	<0.000600	**0.0145**
SB-2021-057	SB-2021-057:0.8-10042021	10/04/2021	0.8	33.6	124	157.6	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	0.0658	<0.000600	0.142 J*	<0.000600	**0.2078 J***
	SB-2021-057:2.4-10042021	10/04/2021	2.4	**3470 D**	**3340 D**	**6810 D**	<0.155	<0.155	<0.155	<0.155	<0.155	4.38 D	14.6 D	<0.0585	<0.0585	**18.98 D**
	SB-2021-057:5.5-10042021	10/04/2021	5.5	31.3	36.3	67.6	<0.0389	<0.0389	<0.0389	<0.0389	<0.0389	0.729 D	2.07 D	<0.0147	<0.0147	**2.799 D**
	SB-2021-057:7.5-10042021	10/04/2021	7.5	12.7	58.8	71.5	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.00160	<0.000600	<0.000600	0.00420	**0.00420**

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— Not analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.

J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*).

bgs = below ground surface; DUP = field duplicate; mg/kg = milligrams per kilogram; NWTPH-Dx = Northwest Total Petroleum Hydrocarbons-Diesel Extended; PCB = polychlorinated biphenyl

Table 22: Physical Testing

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Grain-Size Gravel (%)	Grain-Size Sand (%)	Grain-Size Fines (%)	Porosity (dimensionless)	SW9060M/AM (%) Total Organic Carbon	SM2540G (%) Total Solids
MW—53	MW-53:9.5-02032021	2/3/2021	9.5	1.2	76.2	22.6	—	0.79	—
	MW-53:11-02032021	2/3/2021	11	2.5	87.8	9.8	—	—	—
	MW-53:15.8-02032021	2/3/2021	15.8	—	—	—	—	0.08	73.67
MW—54	MW-54:10.5-13:02032021	2/3/2021	10.5—13	—	—	—	0.389	—	—
	MW-54:17-19.5:02042021	2/4/2021	17—19.5	—	—	—	0.419	—	—
MW—55	MW-55:1.5-02032021	2/3/2021	1.5	12.1	79.3	8.6	—	—	—
	MW-55:9.5-02032021	2/3/2021	9.5	6	74.8	19.2	—	—	—
MW—58	MW-58:5.5-01272021	1/27/2021	5.5	2.5	11	17.7	—	—	—
MW—60	MW-60:5-02012021	2/1/2021	5	0.1	95.9	4	—	0.5	—
	MW-60:9-02012021	2/1/2021	9	0	32.1	67.9	—	0.38	—
MW-61	MW-61:6-02012021	2/1/2021	—	—	—	—	—	0.06	—
	MW-61:9-02012021	2/1/2021	9	0.4	95.6	4	—	—	—
	MW-61:11-02012021	2/1/2021	11	0	24.5	75.5	—	0.31	—
MW-64	MW-64:5.2-01282021	1/28/2021	—	—	—	—	—	—	—
	MW-64:9.0-01282021	1/28/2021	—	—	—	—	—	—	79.33
	MW-64:14.0-01282021	1/28/2021	—	—	—	—	—	—	77.98
MW-66	MW-66:5.5-0112521	1/25/2021	5.5	0.9	85.6	13.5	—	0.24	87.95
	MW-66:15.5-0112521	1/25/2021	15.5	0.3	78.3	21.4	—	0.29	74.56

Table 22: Physical Testing

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Grain-Size Gravel (%)	Grain-Size Sand (%)	Grain-Size Fines (%)	Porosity (dimensionless)	SW9060M/AM (%) Total Organic Carbon	SM2540G (%) Total Solids
MW-67	MW-67:0.5-01262021	1/26/2021	—	—	—	—	—	—	91.30
	MW-67:5.5-01262021	1/26/2021	5.5	0	20	80	—	2.31	77.10
	MW-67:5.5-01262021	1/26/2021	5.5	0	21.5	78.5	—	—	—
	MW-67:5.5-01262021	1/26/2021	5.5	0.2	18.6	81.2	—	—	—
	MW-67:9.0-01262021	1/26/2021	9	7.2	77.2	15.6	—	1.03	72.18
MW-70	MW-70:4.3-02022021	2/2/2021	—	—	—	—	—	—	86.32
	MW-70:12-14.5:02022021	2/2/2021	12-14.5	—	—	—	0.445	—	—
	MW-70:15-02022021	2/2/2021	—	—	—	—	—	—	74.63
	MW-70:16.5-19:02022021	2/2/2021	16.5-19	—	—	—	0.441	—	—
SB-2020-004	SB-2020-004:2.5-11062020	11/6/2020	2.5	1.1	75.5	23.4	—	0.67	77.3
	SB-2020-004:8-11062020	11/6/2020	8	7.7	88.9	3.4	—	0.04	89.7
	SB-2020-004:13-11062020	11/6/2020	13	0	24	76	—	0.24	72.9
	MS/MSD-SB-2020-004:13-1106202	11/6/2020	13	0.1	18.8	81.1	—	—	73.2
	SB-2020-004:17-11062020	11/6/2020	17	1.5	95.6	2.9	—	0.04 J	80.4
	SB-2020-101:17-11062020 (DUP)	11/6/2020	17	0.6	96.8	2.6	—	0.33 J	77.9
	SB-2020-004:21-11062020	11/6/2020	21	0.9	93.2	5.9	—	0.15	80.2
	SB-2020-004:27-11062020	11/6/2020	27	1	90.7	8.3	—	0.04	80.3

Table 22: Physical Testing

Sample Location	Sample Name	Sample Date	Sample Depth (feet bgs)	Grain-Size Gravel (%)	Grain-Size Sand (%)	Grain-Size Fines (%)	Porosity (dimensionless)	SW9060M/AM (%) Total Organic Carbon	SM2540G (%) Total Solids
SB-2020-013	SB-2020-013:1.5-11052020	11/5/2020	1.5	55.4	37.3	7.3	—	0.07	96.1
	SB-2020-013:6-11052020	11/5/2020	6	2.3	90.1	7.6	—	0.39	92.8
	SB-2020-013:6-11052020	11/5/2020	6	2.4	91.5	6.1	—	—	—
	SB-2020-013:6-11052020	11/5/2020	6	2.8	90.9	6.3	—	—	—
	SB-2020-013:11.5-11052020	11/5/2020	11.5	5	85.3	9.7	—	0.36	81.3

NOTES:

Results reported from Materials Testing & Consulting, Inc.

— Not analyzed.

Table 23: Petroleum Hydrocarbons, BTEX, and MTBE in Groundwater

			Petroleum Hydrocarbons (µg/L)				BTEX and MTBE (µg/L) SW8260D (VOC)						
			NWTPH-Gx	NWTPH-Dx									
Sample Location	Sample Name	Sample Date	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Oil Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Methyl-T-Butyl Ether (MTBE)
			1,000	500	500	500	1.6	102	21	NA	NA	106	801
MW-3	MW-3-20211902	2/19/2021	<13.6	<33	<56	ND	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220	<0.140
	MW-3-20212805	5/28/2021	321	<33	<56	ND	<0.0500	0.450	5.38	1.06	1.33	2.38	<0.140
	MW-3-20213008	8/30/2021	536	<33	<56	ND	<0.0500	0.0900 J	0.140 J	0.160 J	0.140 J	0.300 J	<0.140
	MW-3-20212411	11/24/2021	<13.6	<39	<67	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	<0.140
MW-4	MW-4-20211902	2/19/2021	<13.6	<33	<56	ND	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	—	—
	MW-4-20212605	5/26/2021	**847**	107	<56	107	<0.0500	0.120 J	0.0700 J	<0.140	<0.0800	<0.220	<0.140
	MW-4-20213008	8/30/2021	**2960**	196	<56	196	<0.0500	0.310	0.130 J	0.280 J	0.110 J	0.390 J	<0.140
	MW-4-20212411	11/24/2021	139	<33	<56	ND	<0.0500	<0.0500 B*	<0.0500	<0.140	<0.0800	<0.220	<0.140
MW-6	MW-6-20212502	2/25/2021	<13.6	<35	<59	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-6-20211305	5/13/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-6-20210209	9/2/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-6-20212911	11/29/2021	<13.6	101 J*	204	305 J*	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-8	MW-8-20211602	2/16/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	—	<0.140
	MW-8-20212605	5/26/2021	<13.6	<33	<56	ND	<0.0500	0.120 J	0.180 J	<0.140	<0.0800	<0.220	<0.140
	MW-8-20213008	8/31/2021	<13.6	100	<56	100	<0.0500	0.100 J	0.150 J	<0.140	<0.0800	<0.220	<0.140
	MW-8-20211711	11/17/2021	<13.6	<33	<56	ND	<0.0500	0.0700 J	<0.0500	<0.140	<0.0800	<0.220	<0.140
MW-9	MW-9-20211802	2/18/2021	<13.6	<33	<56	ND	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	—	—
	MW-9-20211905	5/19/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	—	—
	MW-9-20213108	8/31/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-9-20211011	11/10/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-10R	MW-10R-20211902	2/19/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-10R-20212505	5/25/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-10R-20213108	8/31/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-10R-20212311	11/23/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-11	MW-11-20211902	2/19/2021	<13.6	**670**	<56	**670**	—	—	—	—	—	—	<0.140
	MW-11-20212505	5/25/2021	<13.6	206	<56	206	—	—	—	—	—	—	<0.140
	MW-11-20212608	8/26/2021	<13.6	173 JH*	<56	173 JH*	—	—	—	—	—	—	<0.140
	MW-11-20212311	11/23/2021	<13.6	**1070**	312	**1382**	—	—	—	—	—	—	<0.140
MW-13R	MW-13R-20212502	2/25/2021	<13.6	**4270**	**2120**	**6390**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	—	—
	MW-13R-20212708	8/27/2021	<13.6	**3690**	**638**	**4328**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-14	MW-14-20211902	2/19/2021	<13.6	446	425	**871**	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220	<0.140
	MW-14-20211405	5/14/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	<0.140
	MW-14-20212608	8/26/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	<0.140
	MW-14-20212311	11/23/2021	<13.6	**790**	**538**	**1328**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	<0.140

Table 23: Petroleum Hydrocarbons, BTEX, and MTBE in Groundwater

			Petroleum Hydrocarbons (µg/L)				BTEX and MTBE (µg/L) SW8260D (VOC)						
			NWTPH-Gx	NWTPH-Dx									
Sample Location	Sample Name	Sample Date	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Oil Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Methyl-T-Butyl Ether (MTBE)
			1,000	500	500	500	1.6	102	21	NA	NA	106	801
MW-15	MW-15-20211902	2/19/2021	<13.6	<33	<56	ND	—	—	—	—	—	—	—
	MW-15-20211405	5/14/2021	<13.6	<33	<56	ND	—	—	—	—	—	—	—
	MW-100-20212008 (DUP)	8/20/2021	<13.6	<33	<56	ND	—	—	—	—	—	—	—
	MW-15-20212008	8/20/2021	<13.6	<35	<60	ND	—	—	—	—	—	—	—
	MW-15-20211911	11/19/2021	<13.6	<33	<56	ND	—	—	—	—	—	—	—
MW-23	MW-23-20211202	2/12/2021	—	<33	<56	ND	—	—	—	—	—	—	—
	MW-23-20211405	5/14/2021	—	<33	<56	ND	—	—	—	—	—	—	—
	MW-23-20212508	8/25/2021	—	<33	<56	ND	—	—	—	—	—	—	—
	MW-23-20211911	11/19/2021	—	<33	<56	ND	—	—	—	—	—	—	—
MW-24	MW-24-20211102	2/11/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-25	MW-25-20211102	2/11/2021	—	—	—	—	—	—	<0.0500	<0.140	<0.0800	<0.220	—
MW-30	MW-30-20211802	2/18/2021	<13.6	**3010**	**867**	**3877**	—	—	—	—	—	—	—
	MW-30-20211905	5/19/2021	<13.6	**1110**	383	**1493**	—	—	—	—	—	—	—
	MW-30-20212008	8/20/2021	<13.6	**910**	277	**1187**	—	—	—	—	—	—	—
	MW-30-20211211	11/12/2021	<13.6	**1480**	**782**	**2262**	—	—	—	—	—	—	—
MW-31	MW-31-20212402	2/24/2021	—	**536**	<56	**536**	—	—	—	—	—	—	—
	MW-31-20211805	5/18/2021	—	**1510**	<56	**1510**	—	—	—	—	—	—	—
	MW-31-20212708	8/27/2021	—	**1220**	<56	**1220**	—	—	—	—	—	—	—
	MW-31-20211811	11/18/2021	—	**1200**	<59	**1200**	—	—	—	—	—	—	—
MW-32	MW-32-20212202	2/22/2021	<13.6	223	<56	223	—	—	—	—	—	—	—
	MW-102-20212405 (DUP)	5/24/2021	<13.6	366 J*	<56	366 J*	—	—	—	—	—	—	—
	MW-32-20212405	5/24/2021	<13.6	253 J*	<56	253 J*	—	—	—	—	—	—	—
	MW-32-20212608	8/26/2021	<13.6	384 JH*	<56	384 JH*	—	—	—	—	—	—	—
	MW-101-20210312 (DUP)	12/3/2021	<13.6	257	<59	257	—	—	—	—	—	—	—
	MW-32-20210312	12/3/2021	<13.6	221	<59	221	—	—	—	—	—	—	—
MW-34	MW-34-20212202	2/22/2021	<13.6	**21700 E**	**2550 D**	**24250 ED**	—	—	—	—	—	—	—
	MW-34-20211405	5/14/2021	<13.6	**3070**	**635**	**3705**	—	—	—	—	—	—	—
	MW-34-20212608	8/26/2021	<13.6	**3420 JH***	491	**3911 JH***	—	—	—	—	—	—	—
	MW-34-20210212	12/2/2021	<13.6	**9660 D**	**2890 D**	**12550 D**	—	—	—	—	—	—	—
MW-36	MW-36-20212202	2/22/2021	<13.6	248	<56	248	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-36-20211705	5/17/2021	<13.6	**614**	<56	**614**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-36-20211808	8/18/2021	<13.6	419 J*	<56	419 J*	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-36-20211211	11/12/2021	<13.6	**1460**	284	**1744**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—

Table 23: Petroleum Hydrocarbons, BTEX, and MTBE in Groundwater

			Petroleum Hydrocarbons (µg/L)				BTEX and MTBE (µg/L) SW8260D (VOC)						
			NWTPH-Gx	NWTPH-Dx									
Sample Location	Sample Name	Sample Date	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Oil Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Methyl-T-Butyl Ether (MTBE)
			1,000	500	500	500	1.6	102	21	NA	NA	106	801
MW-37	MW-102-20212302 (DUP)	2/23/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-37-20212302	2/23/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-37-20212105	5/21/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-37-20210209	9/2/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-37-20210312	12/3/2021	<13.6	<35	<59	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-38	MW-38-20212302	2/23/2021	<13.6	107	<56	107	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	—	—
	MW-38-20212105	5/21/2021	<13.6	<35	<59	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	—	—
	MW-103-20211808 (DUP)	8/18/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-38-20211808	8/18/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-38-20210911	11/9/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-39	MW-39-20212402	2/24/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-39-20212805	5/28/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-39-20211908	8/19/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-39-20213011	11/30/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-40	MW-40-20212502	2/25/2021	—	266	326	**592**	—	—	—	—	—	—	—
	MW-40-20212005	5/20/2021	—	291	<56	291	—	—	—	—	—	—	—
	MW-40-20210109	9/1/2021	—	**550**	<59	**550**	—	—	—	—	—	—	—
	MW-102-20211111 (DUP)	11/11/2021	—	329	<56	329	—	—	—	—	—	—	—
	MW-40-20211111	11/11/2021	—	354	<56	354	—	—	—	—	—	—	—
MW-41	MW-41-20212502	2/25/2021	—	423	<56	423	—	—	—	—	—	—	—
	MW-41-20212005	5/20/2021	—	298	<56	298	—	—	—	—	—	—	—
	MW-41-20210109	9/1/2021	—	**909**	<56	**909**	—	—	—	—	—	—	—
	MW-41-20211111	11/11/2021	—	**654**	<56	**654**	—	—	—	—	—	—	—
MW-42	MW-42-20212302	2/23/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-42-20212405	5/24/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-42-20211808	8/18/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-42-20212911	11/29/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-43	MW-43-20211702	2/17/2021	—	134	<56	134	0.190 J	<0.0500	<0.0500	<0.140	0.0900 J	<0.220	—
	MW-43-20212405	5/24/2021	—	143	<56	143	0.220	<0.0500	<0.0500	<0.140	0.120 J	<0.220	—
	MW-43-20211908	8/19/2021	—	102 J*	<56	102 J*	0.110 J	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-43-20211611	11/16/2021	—	169	<56	169	0.160 J	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—

Table 23: Petroleum Hydrocarbons, BTEX, and MTBE in Groundwater

			Petroleum Hydrocarbons (µg/L)				BTEX and MTBE (µg/L) SW8260D (VOC)						
			NWTPH-Gx	NWTPH-Dx									
Sample Location	Sample Name	Sample Date	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Oil Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Methyl-T-Butyl Ether (MTBE)
			1,000	500	500	500	1.6	102	21	NA	NA	106	801
MW-44	MW-44-20212302	2/23/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-44-20212405	5/24/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-44-20212008	8/20/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-44-20211611	11/16/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-45	MW-45-20212402	2/24/2021	—	**581**	<56	**581**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-45-20211805	5/18/2021	—	**514**	<56	**514**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-45-20212708	8/27/2021	—	411	<56	411	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-45-20211811	11/18/2021	—	**579**	<59	**579**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-46	MW-46-20212402	2/24/2021	160	289	<56	289	0.100 J	0.0800 J	0.0900 J	0.180 J	0.140 J	0.320 J	—
	MW-46-20211405	5/14/2021	132	300	<56	300	0.0600 J	0.0500 J	0.0500 J	<0.140	0.0900 J	0.220 J	—
	MW-46-20211708	8/17/2021	<13.6	388	<56	388	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-46-20212211	11/22/2021	<13.6	**533**	<61	**533**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-48	MW-48-20211102	2/11/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-48-20211805	5/18/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	—	—
	MW-48-20212408	8/24/2021	—	—	—	—	<0.0500	0.760 JH*	0.0500 J	0.190 J	<0.0800	0.240 J	—
	MW-48-20210911	11/9/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-49	MW-49-20211202	2/11/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-49-20211905	5/19/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-49-20212508	8/25/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-49-20210212	12/2/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-50	MW-50-20211202	2/12/2021	—	—	—	—	0.100 J	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-50-20212105	5/21/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-50-20212608	8/26/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-103-20210911	11/9/2021	—	—	—	—	0.110 J	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-50-20210911	11/9/2021	—	—	—	—	0.110 J	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-51	MW-51-20211002	2/10/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-51-20212105	5/21/2021	<13.6	—	—	—	—	—	—	—	—	—	—
	MW-51-20212408	8/24/2021	<13.6	—	—	—	—	—	—	—	—	—	—
	MW-51-20210212	12/2/2021	<13.6	—	—	—	—	—	—	—	—	—	—
MW-52	MW-52-20211202	2/12/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-52-20212605	5/26/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-52-20212708	8/27/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-52-20210112	12/1/2021	<13.6	—	—	—	<0.0500	<0.0500	0.190 J	<0.140	<0.0800	<0.220	—

Table 23: Petroleum Hydrocarbons, BTEX, and MTBE in Groundwater

			Petroleum Hydrocarbons (µg/L)				BTEX and MTBE (µg/L) SW8260D (VOC)						
			NWTPH-Gx	NWTPH-Dx									
Sample Location	Sample Name	Sample Date	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Oil Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Methyl-T-Butyl Ether (MTBE)
			1,000	500	500	500	1.6	102	21	NA	NA	106	801
MW-53	MW-101-20212202 (DUP)	2/22/2021	—	<33	—	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-53-20212202	2/22/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-53-20212505	5/25/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-53-20210109	9/1/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-53-20210112	12/1/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-54	MW-54-20211802	2/18/2021	—	<33	<56	ND	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220	—
	MW-54-20212405	5/24/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-54-20212008	8/20/2021	—	<36	<61	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-54-20210312	12/3/2021	—	<35	<59	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-55	MW-55-20211102	2/11/2021	—	<37	<62	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-55-20211405	5/14/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-55-20212408	8/24/2021	—	136	266	402	<0.0500	<0.0500 B*	<0.0500	<0.140	<0.0800	<0.220	—
	MW-55-20211811	11/18/2021	—	<35	<60	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-56	MW-56-20211002	2/10/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-56-20211705	5/17/2021	—	207	<56	207	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-56-20213008	8/30/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-56-20212211	11/22/2021	—	<37	<62	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-57	MW-57-20211802	2/18/2021	—	301	<56	301	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220	—
	MW-101-20211905 (DUP)	5/19/2021	—	316	<56	316	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-57-20211905	5/19/2021	—	264	<56	264	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-57-20213108	8/31/2021	—	454	<56	454	<0.0500	0.0500 J	<0.0500	<0.140	<0.0800	<0.220	—
	MW-57-20211111	11/11/2021	—	378	301	**679**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-58	MW-58-20211802	2/18/2021	—	<33	<56	ND	0.480 JL*	0.0600 JL*	0.520 JL*	1.26 JL*	0.280 JL*	1.54	—
	MW-58-20211705	5/17/2021	—	144	<56	144	**50.0**	4.23	**63.8**	82.0	2.87	84.9	—
	MW-58-20212508	8/25/2021	—	276	<56	276	**188 JH***	15.5	**70.2**	58.5	1.41	59.9	—
	MW-58-20211211	11/12/2021	—	200	<56	200	**105 JH***	12.4	20.6	23.0	1.28	24.3	—
MW-59	MW-59-20211202	2/12/2021	—	<35	<60	ND	<0.0500	0.0700 J	<0.0500	<0.140	<0.0800	<0.220	—
	MW-59-20211805	5/18/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-59-20212508	8/25/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-59-20213011	11/30/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-60	MW-60-20211702	2/17/2021	170	**1320**	<56	**1320**	<0.0500	0.470	<0.0500	<0.140	0.210	0.320 J	—
	MW-60-20211705	5/17/2021	139	**1080**	<56	**1080**	<0.0500	<0.0500	0.0900 J	0.170 J	0.140 J	0.310 J	—
	MW-60-20210109	9/1/2021	131	**1120**	<56	**1120**	<0.0500	<0.200 B*	<0.0500	<0.140	0.160 J	0.250 J	—
	MW-60-20211711	11/17/2021	129	**1760**	**565**	**2325**	<0.0500	<0.0500	<0.0500	<0.140	0.150 J	0.240 J	—

Table 23: Petroleum Hydrocarbons, BTEX, and MTBE in Groundwater

			Petroleum Hydrocarbons (µg/L)				BTEX and MTBE (µg/L) SW8260D (VOC)						
			NWTPH-Gx	NWTPH-Dx									
Sample Location	Sample Name	Sample Date	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Oil Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Methyl-T-Butyl Ether (MTBE)
			1,000	500	500	500	1.6	102	21	NA	NA	106	801
MW-61	MW-61-20212202	2/22/2021	<13.6	**1300**	**707**	**2007**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-61-20212105	5/21/2021	<13.6	342	340	**682**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-61-20210209	9/2/2021	<13.6	**2310**	**806**	**3116**	<0.0500	0.120 J	<0.0500	<0.140	<0.0800	<0.220	—
	MW-61-20210112	12/1/2021	167	**1680**	**1130**	**2810**	<0.0500	20.8	<0.0500	<0.140	<0.0800	<0.220	—
MW-62	MW-62-20211802	2/18/2021	—	<33	<56	ND	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220	—
	MW-103-20211905 (DUP)	5/19/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-62-20211905	5/19/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-62-20213108	8/31/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-62-20211111	11/11/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-63	MW-103-20211702 (DUP)	2/17/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-63-20211702	2/17/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-63-20212005	5/20/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-63-20210109	9/1/2021	—	<35	<59	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-63-20211611	11/16/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-64	MW-64-20211602	2/16/2021	—	**977**	<56	**977**	<0.0500	6.48	<0.0500	<0.140	<0.0800	<0.220	—
	MW-64-20212005	5/20/2021	—	156	<56	156	<0.0500	0.110 J	<0.0500	<0.140	<0.0800	<0.220	—
	MW-64-20210109	9/1/2021	—	141	<56	141	<0.0500	<0.200 B*	<0.0500	<0.140	<0.0800	<0.220	—
	MW-64-20211611	11/16/2021	—	226	<61	226	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-65	MW-65-20212502	2/25/2021	<13.6	<38	<64	ND	0.220	0.0700 J	<0.0500	<0.140	<0.0800	<0.220	—
	MW-65-20211305	5/13/2021	<13.6	<33	<56	ND	0.250	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-65-20210209	9/2/2021	<13.6	<33	<56	ND	0.190 J	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-65-20210911	11/9/2021	<13.6	<33	<56	ND	0.0800 J	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-66	MW-66-20211002	2/10/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-66-20211305	5/13/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-102-20212308 (DUP)	8/23/2021	—	<34	<57	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-66-20212308	8/23/2021	—	<33	<57	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-66-20211011	11/10/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-67	MW-67-20212302	2/23/2021	—	127	245	372	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-67-20212405	5/24/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-67-20211808	8/18/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-67-20211908	8/19/2021	—	214 J*	<56	214 J*	—	—	—	—	—	—	—
	MW-67-20210112	12/1/2021	—	208	351	**559**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-68	MW-68-20211602	2/16/2021	—	**957**	426	**1383**	<0.0500	0.0800 J	<0.0500	<0.140	<0.0800	<0.220	—
	MW-68-20211708	8/17/2021	—	**1010**	**618**	**1628**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-68-20211711	11/17/2021	—	337	274	**611**	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—

Table 23: Petroleum Hydrocarbons, BTEX, and MTBE in Groundwater

			Petroleum Hydrocarbons (µg/L)				BTEX and MTBE (µg/L) SW8260D (VOC)						
			NWTPH-Gx	NWTPH-Dx									
Sample Location	Sample Name	Sample Date	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Oil Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Methyl-T-Butyl Ether (MTBE)
			1,000	500	500	500	1.6	102	21	NA	NA	106	801
MW-69	MW-69-20211102	2/11/2021	455	**992**	<60	**992**	**2.69**	0.210	0.0600 J	0.280 J	0.110 J	0.400 J	—
	MW-69-20212605	5/26/2021	371	**1230**	297	**1527**	**2.02**	0.190 J	0.0600 J	0.220 J	<0.0800	0.270 J	—
	MW-69-20212408	8/24/2021	348	**1340**	<56	**1340**	**1.86**	<0.0500 B*	0.0500 J	0.240 J	0.100 J	0.340 J	—
	MW-69-20210212	12/2/2021	215	**707**	403	**1110**	0.820	0.0800 J	<0.0500	<0.140	<0.0800	<0.220	—
MW-70	MW-70-20211102	2/11/2021	<13.6	#N/A	<61	ND	<0.0500	0.0500 J	<0.0500	<0.140	<0.0800	<0.220	—
	MW-70-20212605	5/26/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-70-20212308	8/23/2021	293	**1080**	<56	**1080**	**1.72**	<0.0500 B*	<0.0500	0.150 J	<0.0800	0.220 J	—
	MW-70-20213011	11/30/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-71	MW-71-20211702	2/17/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-71-20211805	5/18/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-71-20211708	8/17/2021	<13.6	<33	<56	ND	<0.0500	<0.200 B*	<0.0500	<0.140	<0.0800	<0.220	—
	MW-71-20211611	11/16/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-72	MW-72-20211602	2/16/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-72-20212105	5/21/2021	—	<33	<56	ND	—	—	—	—	—	—	—
	MW-72-20212608	8/26/2021	—	<34	<57	ND	—	—	—	—	—	—	—
	MW-72-20211711	11/17/2021	<13.6	<33	<56	ND	—	—	—	—	—	—	—
MW-73	MW-73-20212202	2/22/2021	301	**14300 E**	**2630**	**16930 E**	<0.0500	<0.0500	0.0800 J	<0.140	<0.0800	<0.220	—
	MW-73-20212005	5/20/2021	752	**8240 E**	**1100**	**9340 E**	<0.0500	0.0600 J	0.170 J	<0.140	<0.0800	<0.220	—
	MW-73-20212708	8/27/2021	510	**3380**	306	3686	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-73-20212911	11/29/2021	520	**9040 J***	**1950 D**	**2890 J*D**	<0.0500	<0.0500	0.110 J	<0.140	<0.0800	<0.220	—
MW-74	MW-74-20212202	2/22/2021	216	**2920**	**1040**	**3960**	<0.0500	4.21	<0.0500	<0.140	<0.0800	<0.220	—
	MW-74-20212005	5/20/2021	<13.6	340	250	**590**	<0.0500	0.110 J	<0.0500	<0.140	<0.0800	<0.220	—
	MW-74-20210209	9/2/2021	<13.6	277	<56	277	<0.0500	2.98	<0.0500	<0.140	<0.0800	<0.220	—
	MW-74-20212411	11/24/2021	<13.6	451	374	**825**	<0.0500	10.4	<0.0500	<0.140	<0.0800	<0.220	—
MW-75	MW-75-20211802	2/18/2021	—	294	364	**658**	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220	—
	MW-75-20212405	5/24/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-101-20213108 (DUP)	8/31/2021	<13.6	142	<56	142	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-75-20213108	8/31/2021	<13.6	152	<56	152	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-75-20211211	11/12/2021	—	<33	<56	ND	0.0900 J	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
MW-76	MW-100-20211002 (DUP)	2/10/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-76-20211002	2/10/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-76-20211305	5/13/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-76-20211708	8/17/2021	—	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	MW-76-20211811	11/18/2021	—	<35	<59	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—

Table 23: Petroleum Hydrocarbons, BTEX, and MTBE in Groundwater

			Petroleum Hydrocarbons (µg/L)				BTEX and MTBE (µg/L) SW8260D (VOC)						
			NWTPH-Gx	NWTPH-Dx									
Sample Location	Sample Name	Sample Date	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Oil Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Methyl-T-Butyl Ether (MTBE)
			1,000	500	500	500	1.6	102	21	NA	NA	106	801
Trip Blank Samples	TB-1-20211002	2/10/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-2-20211102	2/11/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-4-20211602	2/16/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	—	<0.140
	TB-5-20211702	2/17/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-6-20211802	2/18/2021	<13.6	—	—	—	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220	—
	TB-7-20211902	2/19/2021	<13.6	—	—	—	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220	—
	TB-8-20212202	2/22/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-9-20212302	2/23/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-10-20212402	2/24/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-11-20212502	2/25/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-1-20211305	5/13/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-2-20211405	5/14/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-3-20211705	5/17/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-4-20211805	5/18/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-5-20211905	5/19/2021	—	—	—	—	<0.0500	0.240	<0.0500	<0.140	<0.0800	<0.220	—
	TB-6-20212005	5/20/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-7-20212105	5/21/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-8-20212405	5/24/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-9-20212505	5/25/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	<0.140
	TB-10-20212605	5/26/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-11-20212805	5/28/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	<0.140
	TB-2-20211808	8/18/2021	<13.6	—	—	—	<0.0500	0.0700 J	<0.0500	<0.140	<0.0800	<0.220	—
	TB-4-20212008	8/20/2021	<13.6	—	—	—	<0.0500	0.110 J	<0.0500	<0.140	<0.0800	<0.220	—
	TB-6-20212408	8/24/2021	<13.6	—	—	—	<0.0500	0.110 J	<0.0500	<0.140	<0.0800	<0.220	—
	TB-7-20212508	8/25/2021	<13.6	—	—	—	<0.0500	0.110 J	<0.0500	<0.140	<0.0800	<0.220	—
	TB-8-20212608	8/26/2021	<13.6	—	—	—	<0.0500	0.100 J	<0.0500	<0.140	<0.0800	<0.220	<0.140
	TB-9-20212708	8/27/2021	<13.6	—	—	—	<0.0500	0.110 J	<0.0500	<0.140	<0.0800	<0.220	—
	TB-10-20213008	8/30/2021					<0.0500	0.110 J	<0.0500	<0.140	<0.0800	<0.220	<0.140
	TB-11-20213108	8/31/2021					<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	<0.140
	TB-12-20210109	9/1/2021	<13.6	—	—	—	<0.0500	0.0900 J	<0.0500	<0.140	<0.0800	<0.220	<0.140
	TB-13-20210209	9/2/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-1-20210911	11/9/2021	—	—	—	—	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220 J*	—
	TB-2-20211011	11/10/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-3-20211111	11/11/2021	—	—	—	—	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220 J*	—
	TB-4-20211211	11/12/2021	—	—	—	—	<0.0500 J*	<0.0500 J*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220 J*	—
	TB-5-20211611	11/16/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-6-20211711	11/17/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	<0.140

Table 23: Petroleum Hydrocarbons, BTEX, and MTBE in Groundwater

			Petroleum Hydrocarbons (µg/L)				BTEX and MTBE (µg/L) SW8260D (VOC)						
			NWTPH-Gx	NWTPH-Dx									
Sample Location	Sample Name	Sample Date	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Oil Range Organics	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Methyl-T-Butyl Ether (MTBE)
			1,000	500	500	500	1.6	102	21	NA	NA	106	801
Trip Blank Samples	TB-7-20211811	11/18/2021					<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-9-20212211	11/22/2021					<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-10-20212311	11/23/2021	<13.6	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	<0.140
	TB-11-20212411	11/24/2021	<13.6 J*	—	—	—	<0.0500 J*	0.0600 JL*	<0.0500 J*	<0.140 J*	<0.0800 J*	<0.220 J*	<0.140 J*
	TB-12-20212911	11/29/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-13-20213011	11/30/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-14-20210112	12/1/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-15-20210212	12/2/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	TB-16-20210312	12/3/2021	—	—	—	—	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
Equipment Blank Samples	EB-2-20211102	2/11/2021	<13.6	<38	<64	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	EB-1-20211705	5/17/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	EB-2-20212505	5/25/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	EB-1-20212008	8/20/2021	<13.6	<33	<56	ND	<0.0500	<0.0500	<0.0500	<0.140	<0.0800	<0.220	—
	EB-2-20212508	8/25/2021	<13.6	<35	<59	ND	<0.0500	<0.0500	0.0500 J	<0.140	<0.0800	<0.220	—
	EB-1-20211011	11/10/2021	<13.6	<33	<56	ND	<0.0500	0.0800 J	<0.0500	<0.140	<0.0800	<0.220	—
	EB-2-20211611	11/16/2021	<13.6	<33	<56	ND	<0.0500	0.0700 J	<0.0500	<0.140	<0.0800	<0.220	—
	EB-3-20212211	11/22/2021	—	<38	<64	ND	—	—	—	—	—	—	—

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— Not analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

B* Result is included in the same preparatory batch as a blank detection for the associated analyte. Result is considered non-detect. Flag applied by Shannon & Wilson (*).

D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.

E Reported result exceeded the instrument's upper calibration limit. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.

J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*).

JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).

BTEX = benzene, toluene, ethylbenzene, and xylenes; DUP = field duplicate; MTBE = methyl tert-butyl ether; NWTPH-Dx = Northwest Total Petroleum Hydrocarbons-Diesel Extended; NWTPH-Gx = Northwest Total Petroleum Hydrocarbons-Gasoline Extended; µg/L = micrograms per liter; VOC = volatile organic compound

Table 24: Polychlorinated Biphenyls in Groundwater

Sample Location	Sample Name	Sample Date	Polychlorinated Biphenyls (µg/L) SW8082A (PCBs)									
			Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.000007 (0.01)
MW-6	MW-6-20212502	2/25/2021	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	—	—	**<0.0200**
	MW-6-20211305	5/13/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-6-20210209	9/2/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-6-20212911	11/29/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-10R	MW-10R-20211902	2/19/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	<0.0180
	MW-10R-20212505	5/25/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-10R-20213108	8/31/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-10R-20212311	11/23/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-23	MW-23-20211202	2/12/2021	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	**<0.0190**
	MW-23-20211405	5/14/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-23-20212508	8/25/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-23-20211911	11/19/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-24	MW-24-20211102	2/11/2021	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	—	—	**<0.0500**
	MW-24-20211805	5/18/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-24-20212508	8/25/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-100-20210112 (DUP)	12/1/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-24-20210112	12/1/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-31	MW-31-20211811	11/18/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-39	MW-39-20212402	2/24/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-39-20212805	5/28/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00300 J	<0.00300	<0.00300	<0.00300	**0.00300 J**
	MW-39-20212008	8/20/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-39-20213011	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00400 J	<0.00300	<0.00300	<0.00300	**0.00400 J**
MW-42	MW-42-20212302	2/23/2021	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	—	—	**<0.0190**
	MW-42-20212405	5/24/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-42-20211808	8/18/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-42-20212911	11/29/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-43	MW-43-20211702	2/17/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-43-20212405	5/24/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-43-20211908	8/19/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-43-20211611	11/16/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300

Table 24: Polychlorinated Biphenyls in Groundwater

Sample Location	Sample Name	Sample Date	Polychlorinated Biphenyls (µg/L) SW8082A (PCBs)									
			Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.000007 (0.01)
MW-44	MW-44-20212302	2/23/2021	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	—	—	**<0.0190**
	MW-44-20212405	5/24/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-44-20212008	8/20/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-44-20211611	11/16/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-45	MW-45-20212402	2/24/2021	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	—	—	**<0.0190**
	MW-45-20211805	5/18/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-45-20212708	8/27/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-45-20211811	11/18/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-47	MW-47-20212402	2/24/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	—	—	**<0.0180**
	MW-47-20212705	5/27/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-47-20212708	8/27/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-47-20211911	11/19/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-50	MW-50-20211202	2/12/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-50-20212105	5/21/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-50-20212608	8/26/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-103-20210911 (DUP)	11/9/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-50-20210911	11/9/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-51	MW-51-20211002	2/10/2021	<0.0180 J*	<0.0180 J*	<0.0180 J*	<0.0180 J*	<0.0180 J*	<0.0180 J*	<0.0170 J*	—	—	**<0.0180 J***
	MW-51-20212105	5/21/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-51-20212408	8/24/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-51-20210212	12/2/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-52	MW-52-20211202	2/12/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-52-20212605	5/26/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-52-20212708	8/27/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-52-20210112	12/1/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-53	MW-101-20212202 (DUP)	2/22/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-53-20212202	2/22/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-53-20212505	5/25/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-53-20210109	9/1/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-53-20210112	12/1/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300

Table 24: Polychlorinated Biphenyls in Groundwater

Sample Location	Sample Name	Sample Date	Polychlorinated Biphenyls (µg/L) SW8082A (PCBs)									
			Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.000007 (0.01)
MW-54	MW-54-20211802	2/18/2021	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	—	—	**<0.0190**
	MW-54-20212405	5/24/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-54-20212008	8/20/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-54-20210312	12/3/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-60	MW-60-20211702	2/17/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-60-20211705	5/17/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-60-20210109	9/1/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-60-20211711	11/17/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-62	MW-62-20211802	2/18/2021	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	—	—	**<0.0190**
	MW-103-20211905 (DUP)	5/19/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-62-20211905	5/19/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-62-20213108	8/31/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-62-20211111	11/11/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-63	MW-103-20211702 (DUP)	2/17/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-63-20211702	2/17/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-63-20212005	5/20/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-63-20210109	9/1/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-63-20211611	11/16/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-64	MW-64-20211602	2/16/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	—	—	**<0.0180**
	MW-64-20212005	5/20/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-64-20210109	9/1/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-64-20211611	11/16/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-65	MW-65-20212502	2/25/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-65-20211305	5/13/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-65-20210209	9/2/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-65-20210911	11/9/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-66	MW-66-20211002	2/10/2021	<0.0210	<0.0210	<0.0210	<0.0210	<0.0210	<0.0210	<0.0200 J*	—	—	**<0.0210**
	MW-66-20211305	5/13/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-102-20212308 (DUP)	8/23/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-66-20212308	8/23/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-66-20211011	11/10/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300

Table 24: Polychlorinated Biphenyls in Groundwater

Sample Location	Sample Name	Sample Date	Polychlorinated Biphenyls (µg/L) SW8082A (PCBs)									
			Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.000007 (0.01)
MW-67	MW-67-20212302	2/23/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-67-20212405	5/24/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-67-20211908	8/19/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-67-20210112	12/1/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-68	MW-68-20211602	2/16/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-68-20211708	8/17/2021	<0.00200 J*	<0.00200 J*	<0.00200 J*	<0.00200 J*	<0.00200 J*	<0.00200 J*	<0.00300 J*	<0.00300 J*	<0.00300 J*	<0.00300 J*
	MW-68-20211711	11/17/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00300 J	<0.00300	<0.00300	<0.00300	**0.00300 J**
MW-69	MW-69-20211102	2/11/2021	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	—	—	**<0.0190**
	MW-69-20212605	5/26/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-69-20212408	8/24/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-69-20210212	12/2/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-70	MW-70-20211102	2/11/2021	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	—	—	**<0.0190**
	MW-70-20212605	5/26/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-70-20212308	8/23/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-70-20213011	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-71	MW-71-20211702	2/17/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-71-20211805	5/18/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-71-20211708	8/17/2021	<0.00200 J*	<0.00200 J*	<0.00200 J*	<0.00200 J*	<0.00200 J*	<0.00200 J*	<0.00300 J*	<0.00300 J*	<0.00300 J*	<0.00300 J*
	MW-71-20211611	11/16/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-72	MW-72-20211602	2/16/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-72-20211711	11/17/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
MW-75	MW-75-20211802	2/18/2021	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0170	—	—	**<0.0180**
	MW-75-20212405	5/24/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-101-20213108 (DUP)	8/31/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-75-20213108	8/31/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	MW-75-20211211	11/12/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
Decon	Decon-20212605	5/26/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300

Table 24: Polychlorinated Biphenyls in Groundwater

			Polychlorinated Biphenyls (µg/L) SW8082A (PCBs)									
Sample Location	Sample Name	Sample Date	Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.000007 (0.01)
Equipment Blank Samples	EB-2-20211102	2/11/2021	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	—	—	**<0.0190**
	EB-1-20211705	5/17/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	EB-2-20212505	5/25/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	EB-1-20212008	8/20/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	EB-2-20212508	8/25/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300 J*	<0.00300	<0.00300	<0.00300 J*
	EB-3-20210209	9/2/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	EB-1-20211011	11/10/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300
	EB-2-20211611	11/16/2021	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00300	<0.00300	<0.00300	<0.00300

NOTES:
Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).
Regulatory limits are the most stringent groundwater PCUL for nonpotable groundwater provided by Ecology (June 2018).
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
µg/L = micrograms per liter; PCB = polychlorinated biphenyl

Table 25: Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

			Carcinogenic Polycyclic Aromatic Hydrocarbons (µg/L) SW8270E/SW8270E-SIM							
Sample Location	Sample Name	Sample Date	Benzo(a)pyrene 0.000016 (0.01)	Benzo(a)anthracene 0.00016 (0.01)	Benzo(b)fluoranthene 0.00016 (0.01)	Benzo(k)fluoranthene 0.0016 (0.01)	Chrysene 0.016	Dibenzo(a,h)anthracene 0.000016 (0.01)	Indeno(1,2,3-cd)pyrene 0.00016 (0.01)	Total cPAH TEQ 0.000016
MW-10R	MW-10R-20211902	2/19/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-10R-20212505	5/25/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-10R-20213108	8/31/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-10R-20212311	11/23/2021	<0.00200	<0.000800	<0.000500	<0.00300	0.000900 J	<0.00100	<0.00100	**0.001324**
MW-24	MW-24-20211102	2/11/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
MW-25	MW-25-20211102	2/11/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-25-20211805	5/18/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-25-20212408	8/24/2021	<0.00200	**0.00100 J**	<0.000500	<0.00300	0.00200 J	<0.00100	<0.00100	**0.001395**
	MW-25-20211011	11/10/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
MW-31	MW-31-20212402	2/24/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-31-20211805	5/18/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-31-20212708	8/27/2021	<0.00200	<0.000800	**0.000900 J**	<0.00300	0.00100 J	<0.00100	<0.00100	**0.00139**
	MW-31-20211811	11/18/2021	<0.00300	<0.000800	<0.000500	<0.00400	<0.00100	<0.00100	<0.00100	< 0.00187
MW-32	MW-32-20212202	2/22/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-102-20212405 (DUP)	5/24/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-32-20212405	5/24/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-32-20212608	8/26/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-101-20210312 (DUP)	12/3/2021	<0.00200	<0.000800	<0.0100 B*	<0.00300	<0.0100 B*	<0.00100	<0.00100	< 0.00184
	MW-32-20210312	12/3/2021	<0.00200	<0.000800	<0.0100 B*	<0.00300	<0.0100 B*	<0.00100	<0.00100	< 0.00184
MW-37	MW-102-20212302 (DUP)	2/23/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-37-20212302	2/23/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-37-20212105	5/21/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-37-20210209	9/2/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-37-20210312	12/3/2021	<0.00200	<0.000800	<0.0100 B*	<0.00300	<0.0100 B*	<0.00100	<0.00100	< 0.00184
MW-40	MW-40-20212502	2/25/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-40-20212005	5/20/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-40-20210109	9/1/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-102-20211111 (DUP)	11/11/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-40-20211111	11/11/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
MW-41	MW-41-20212502	2/25/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-41-20212005	5/20/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-41-20210109	9/1/2021	<0.00200	<0.000800	**0.000900 J**	<0.00300	0.00100 J	<0.00100	<0.00100	**0.00139**
	MW-41-20211111	11/11/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195

Table 25: Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

			Carcinogenic Polycyclic Aromatic Hydrocarbons (µg/L) SW8270E/SW8270E-SIM							
Sample Location	Sample Name	Sample Date	Benzo(a)pyrene 0.000016 (0.01)	Benzo(a)anthracene 0.00016 (0.01)	Benzo(b)fluoranthene 0.00016 (0.01)	Benzo(k)fluoranthene 0.0016 (0.01)	Chrysene 0.016	Dibenzo(a,h)anthracene 0.000016 (0.01)	Indeno(1,2,3-cd)pyrene 0.00016 (0.01)	Total cPAH TEQ 0.000016
MW-46	MW-46-20212402	2/24/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-46-20211405	5/14/2021	<0.00200	**0.00100 J**	<0.000500	<0.00300	0.000900 J	<0.00100	<0.00100	**0.001384**
	MW-46-20211708	8/17/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-46-20212211	11/22/2021	<0.00200	**0.00100 J**	**0.000800 J**	<0.00300	0.00200 J	<0.00100	<0.00100	**0.00145**
MW-47	MW-47-20212402	2/24/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-47-20212705	5/27/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-47-20212708	8/27/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-47-20211911	11/19/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
MW-51	MW-51-20211002	2/10/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
MW-52	MW-52-20211202	2/12/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-52-20212605	5/26/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-52-20212708	8/27/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-52-20210112	12/1/2021	<0.00200	<0.000800	<0.0100 B*	<0.00300	<0.0100 B*	<0.00100	<0.00100	< 0.00184
MW-53	MW-101-20212202 (DUP)	2/22/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-53-20212202	2/22/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-53-20212505	5/25/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-53-20210109	9/1/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-53-20210112	12/1/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.0100 B*	<0.00100	<0.00100	< 0.001365
MW-54	MW-54-20211802	2/18/2021	<0.00300	<0.000800	<0.000500	<0.00400	<0.00100	<0.00100	<0.00100	< 0.00187
	MW-54-20212405	5/24/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-54-20212008	8/20/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-54-20210312	12/3/2021	<0.00200	<0.000800	<0.0100 B*	<0.00300	<0.0100 B*	<0.00100	<0.00100	< 0.00184
MW-55	MW-55-20211102	2/11/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-55-20212408	8/24/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-55-20211811	11/18/2021	<0.00300	<0.000800	<0.000500	<0.00400	0.00100 J	<0.00200	<0.00100	0.001925
MW-56	MW-56-20211002	2/10/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-56-20211705	5/17/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-56-20213008	8/30/2021	<0.00200	<0.0100 B*	<0.0100 B*	<0.00300	<0.0100 B*	<0.00100	<0.00100	< 0.0023
	MW-56-20212211	11/22/2021	<0.00200	<0.000800	<0.000500	<0.00300	0.00100 J	<0.00100	<0.00100	**0.001325**
MW-57	MW-57-20211802	2/18/2021	<0.00300	<0.000800	<0.000500	<0.00300	<0.00100	<0.00100	<0.00100	< 0.00182
	MW-101-20211905 (DUP)	5/19/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-57-20211905	5/19/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-57-20213108	8/31/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-57-20211111	11/11/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195

Table 25: Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

			Carcinogenic Polycyclic Aromatic Hydrocarbons (µg/L) SW8270E/SW8270E-SIM							
Sample Location	Sample Name	Sample Date	Benzo(a)pyrene 0.000016 (0.01)	Benzo(a)anthracene 0.00016 (0.01)	Benzo(b)fluoranthene 0.00016 (0.01)	Benzo(k)fluoranthene 0.0016 (0.01)	Chrysene 0.016	Dibenzo(a,h)anthracene 0.000016 (0.01)	Indeno(1,2,3-cd)pyrene 0.00016 (0.01)	Total cPAH TEQ 0.000016
MW-58	MW-58-20211802	2/18/2021	<0.00300	<0.000800	<0.000500	<0.00300	<0.00100	<0.00100	<0.00100	< 0.00182
	MW-58-20211705	5/17/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-58-20212508	8/25/2021	<0.00200	**0.00100 J**	**0.00100 J**	<0.00300	0.00200 J	<0.00100	<0.00100	**0.00147**
	MW-58-20211211	11/12/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
MW-59	MW-59-20211202	2/12/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-59-20211805	5/18/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-59-20212508	8/25/2021	<0.00200	<0.000800	**0.00200 J**	<0.00300	0.00200 J	<0.00100	<0.00100	**0.00151**
	MW-59-20213011	11/30/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.0100 B*	<0.00100	<0.00100	**< 0.001365**
MW-60	MW-60-20211702	2/17/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	**0.0910 J, D**	**0.0103695**
	MW-60-20211705	5/17/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	**< 0.0013195**
	MW-60-20210109	9/1/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	**< 0.0013195**
	MW-60-20211711	11/17/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	**< 0.0013195**
MW-61	MW-61-20212202	2/22/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	**< 0.0013195**
	MW-61-20212105	5/21/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	**< 0.0013195**
	MW-61-20210209	9/2/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	**< 0.0013195**
	MW-61-20210112	12/1/2021	**0.00300 J**	<0.0100 B*	<0.0100 B*	<0.00300	<0.0100 B*	**0.00200 J**	**0.00200 J**	**0.0046**
MW-62	MW-62-20211802	2/18/2021	<0.00300	<0.000800	<0.000500	<0.00300	<0.00100	<0.00100	<0.00100	< 0.00182
	MW-103-20211905	5/19/2021	<0.00200	<0.000800	<0.000500	<0.00300	0.000900 J	<0.00100	<0.00100	**0.001324**
	MW-62-20211905	5/19/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-62-20213108	8/31/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-62-20211111	11/11/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
MW-63	MW-103-20211702 (DUP)	2/17/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-63-20211702	2/17/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-63-20212005	5/20/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-63-20210109	9/1/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-63-20211611	11/16/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
MW-64	MW-64-20211602	2/16/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	**< 0.0013195**
	MW-64-20212005	5/20/2021	<0.00200	**0.00200 J**	**0.00200 J**	<0.00300	0.00300 J	<0.00100	<0.00100	**0.00168**
	MW-64-20210109	9/1/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-64-20211611	11/16/2021	<0.00200	**0.000900 J**	<0.000500	<0.00300	0.00100 J	<0.00100	<0.00100	**0.001375**
MW-65	MW-65-20212502	2/25/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-65-20211305	5/13/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-65-20210209	9/2/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-65-20210911	11/9/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195

Table 25: Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

			Carcinogenic Polycyclic Aromatic Hydrocarbons (µg/L) SW8270E/SW8270E-SIM							
Sample Location	Sample Name	Sample Date	Benzo(a)pyrene 0.000016 (0.01)	Benzo(a)anthracene 0.00016 (0.01)	Benzo(b)fluoranthene 0.00016 (0.01)	Benzo(k)fluoranthene 0.0016 (0.01)	Chrysene 0.016	Dibenzo(a,h)anthracene 0.000016 (0.01)	Indeno(1,2,3-cd)pyrene 0.00016 (0.01)	Total cPAH TEQ 0.000016
MW-66	MW-66-20211002	2/10/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-66-20211305	5/13/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-102-20212308 (DUP)	8/23/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-66-20212308	8/23/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-66-20211011	11/10/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
MW-67	MW-67-20212302	2/23/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-67-20212405	5/24/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-67-20211808	8/18/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-67-20210112	12/1/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
MW-68	MW-68-20211602	2/16/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-68-20211708	8/17/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-68-20211711	11/17/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
MW-70	MW-70-20211102	2/11/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-70-20212605	5/26/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-70-20212308	8/23/2021	<0.00200	**0.00600 J**	<0.000500	<0.00300	0.00600 J	<0.00100	<0.00100	**0.001935**
	MW-70-20213011	11/30/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.0100 B*	<0.00100	<0.00100	< 0.001365
MW-71	MW-71-20211702	2/17/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-71-20211805	5/18/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-71-20211708	8/17/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-71-20211611	11/16/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
MW-72	MW-72-20211602	2/16/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-72-20212105	5/21/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-72-20212608	8/26/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-72-20211711	11/17/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-72-20213011	11/30/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
MW-73	MW-73-20212202	2/22/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-73-20212005	5/20/2021	<0.00200	<0.000800	<0.000500	<0.00300	0.00300 J	<0.00100	<0.00100	**0.001345**
	MW-73-20212708	8/27/2021	<0.00200	<0.000800	**0.00100 J**	<0.00300	**0.0160**	<0.00100	<0.00100	**0.00155**
	MW-73-20212911	11/29/2021	<0.00200	<0.000800	<0.0100 B*	<0.00300	<0.000900	<0.00100	<0.0100 B*	< 0.0022445
MW-74	MW-74-20212202	2/22/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-74-20212005	5/20/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-74-20210209	9/2/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-74-20212411	11/24/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195

Table 25: Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

			Carcinogenic Polycyclic Aromatic Hydrocarbons (µg/L) SW8270E/SW8270E-SIM							
Sample Location	Sample Name	Sample Date	Benzo(a)pyrene 0.000016 (0.01)	Benzo(a)anthracene 0.00016 (0.01)	Benzo(b)fluoranthene 0.00016 (0.01)	Benzo(k)fluoranthene 0.0016 (0.01)	Chrysene 0.016	Dibenzo(a,h)anthracene 0.000016 (0.01)	Indeno(1,2,3-cd)pyrene 0.00016 (0.01)	Total cPAH TEQ 0.000016
MW-75	MW-75-20211802	2/18/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-75-20212405	5/24/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-101-20213108 (DUP)	8/31/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-75-20213108	8/31/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
	MW-75-20211211	11/12/2021	**<0.0500**	**<0.0400**	—	—	**<0.0400**	**<0.0700**	**<0.0600**	**< 0.0337**
MW-76	MW-100-20211002 (DUP)	2/10/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-76-20211002	2/10/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-76-20211305	5/13/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-76-20211708	8/17/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	MW-76-20211811	11/18/2021	<0.00300	<0.000800	<0.000500	<0.00300	<0.00100	<0.00100	<0.00100	< 0.00182
Equipment Blank Samples	EB-2-20211102	2/11/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	EB-1-20211705	5/17/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	EB-2-20212505	5/25/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	EB-1-20212008	8/20/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	EB-2-20212508	8/25/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	EB-1-20211011	11/10/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	EB-2-20211611	11/16/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195
	EB-3-20212211	11/22/2021	<0.00200	<0.000800	<0.000500	<0.00300	<0.000900	<0.00100	<0.00100	< 0.0013195

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— Not analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

B* Result is included in the same preparatory batch as a blank detection for the associated analyte. Result is considered non-detect. Flag applied by Shannon & Wilson (*).

D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.

J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

cPAHs = carcinogenic polycyclic aromatic hydrocarbons; DUP = field duplicate; µg/L = micrograms per liter

Table 26: Other Polycyclic Aromatic Hydrocarbons in Groundwater

			Other PAHs (µg/L) SW8270E/SW8270E-SIM												
Sample Location	Sample Name	Sample Date	1-Methylnaphthalene 804	2-Methylnaphthalene 14	Acenaphthene 5.34	Acenaphthylene NA	Anthracene 2.1	Benzo(g,h,i) perylene NA	Benzo(j) fluoranthene NA	Dibenzofuran 3.092023052	Fluoranthene 1.8	Fluorene 3.7	Naphthalene 1.4	Phenanthrene NA	Pyrene 2.0
MW-10R	MW-10R-20211902	2/19/2021	<0.000900	0.00100 J	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00300 J	<0.00100	<0.00100
	MW-10R-20212505	5/25/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100
	MW-10R-20213108	8/31/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.0100 B*	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	MW-10R-20212311	11/23/2021	0.00200 J	<0.00100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	0.00200 J	<0.00200	<0.00200	<0.00100 B*	<0.00100	<0.00100
MW-24	MW-24-20211102	2/11/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	0.00200 J	<0.00100
MW-25	MW-25-20211102	2/11/2021	<0.0100 B*	<0.0100 B*	0.114	<0.00200	0.00300 J	<0.00100	<0.00200	<0.00200	0.00600 J	0.00300 J	<0.0100 B*	0.0400	0.00300 J
	MW-25-20211805	5/18/2021	<0.000900	<0.00100	0.178	<0.00200	0.00400 J	<0.00100	<0.00200	<0.00200	0.00800 J	0.00300 J	<0.00100 B*	0.0350	0.00400 J
	MW-25-20212408	8/24/2021	0.00200 J	0.00200 J	0.344	<0.00200	0.0120	<0.00100	<0.00200	0.00200 J	0.0220	0.00700 J	0.00400 J	0.136	0.0130
	MW-25-20211011	11/10/2021	0.00200 J	<0.0100 B*	0.136	<0.00200	0.00400 J	<0.00100	<0.00200	<0.0100 B*	0.00600 J	0.00300 J	<0.0100 B*	0.0240	<0.0100 B*
MW-31	MW-31-20212402	2/24/2021	0.0110	0.00600 J	2.75 D	0.0160	0.0820 D	<0.00100	<0.00200	<0.00200	0.0390	0.0170	<0.0500 B*	1.43 D	0.0130
	MW-31-20211805	5/18/2021	0.00900 JH*	<0.0100 B*	4.51 D	0.0260	0.129	<0.00100	<0.00200	0.00800 J	0.0770	0.0300	<0.0100 B*	2.43 D	0.0250
	MW-31-20212708	8/27/2021	0.0140	<0.0100 B*	4.22 D	0.0330	0.196	<0.00100	<0.00200	0.0120	0.107	0.0340	<0.0100 B*	3.09 D	0.0350
	MW-31-20211811	11/18/2021	0.0130	0.00900 JH*	**5.50 D**	0.0590	0.203	<0.00200	<0.00200	0.00900 J	0.110	0.0400	<0.00100 B*	2.99 D	0.0350
MW-32	MW-32-20212202	2/22/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00400 J	<0.00100	<0.00100
	MW-102-20212405 (DUP)	5/24/2021	<0.0100 B*	<0.0100 B*	0.00400 J	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	0.00200 J	<0.00100
	MW-32-20212405	5/24/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100	0.00200 J	<0.00100
	MW-32-20212608	8/26/2021	<0.0100 B*	<0.0100 B*	0.00600 J	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	0.00200 J	<0.0100 B*	0.00300 J	<0.00100
	MW-101-20210312 (DUP)	12/3/2021	0.00200 J	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	0.00200 J	<0.0100 B*
	MW-32-20210312	12/3/2021	0.00200 J	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	0.00200 J	<0.0100 B*
MW-37	MW-102-20212302	2/23/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00300 J	<0.00100	<0.00100
	MW-37-20212302	2/23/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00300 J	<0.00100	<0.00100
	MW-37-20212105	5/21/2021	<0.0100 B*	<0.0100 B*	0.242	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.0100 B*	<0.00100
	MW-37-20210209	9/2/2021	<0.0100 B*	<0.0100 B*	0.808	0.00400 J	<0.00100	<0.00100	<0.00200	<0.0100 B*	<0.00200	<0.00200	<0.0100 B*	0.00200 J	<0.00100
	MW-37-20210312	12/3/2021	0.00100 J	<0.0100 B*	<0.00300	<0.00200	0.00200 J	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	0.00200 J	<0.0100 B*
MW-40	MW-40-20212502	2/25/2021	<0.000900	<0.00100	0.0740	<0.00200	<0.00100	<0.00100	<0.00200	0.00400 J	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	MW-40-20212005	5/20/2021	0.00200 J	0.00200 J	0.123	<0.00200	<0.00100	<0.00100	<0.00200	0.00200 J	<0.00200	<0.00200	0.00300 J	0.00600 J	<0.00100
	MW-40-20210109	9/1/2021	0.00100 J	<0.0100 B*	0.240	<0.00200	<0.00100	<0.00100	<0.00200	<0.0100 B*	<0.00200	<0.00200	<0.0100 B*	0.00700 J	<0.00100
	MW-102-20211111	11/11/2021	<0.0100 B*	<0.0100 B*	0.225	<0.00200	0.00100 J*	<0.00100	<0.00200	0.00200 J	0.00300 J	0.00200 J	<0.0100 B*	0.0120	0.00200 J*
	MW-40-20211111	11/11/2021	<0.0100 B*	<0.0100 B*	0.196	<0.00200	0.00200 J*	<0.00100	<0.00200	0.00200 J	0.00300 J	0.00200 J	<0.0100 B*	0.00900 J	0.00300 J*
MW-41	MW-41-20212502	2/25/2021	0.0320	<0.00100	1.07 E	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	0.212	<0.0100 B*	0.0270	<0.00100
	MW-41-20212005	5/20/2021	0.0190	0.00200 J	1.59 D	0.00300 J	0.00200 J	<0.00100	<0.00200	0.00200 J	<0.00200	0.354	0.00800 J	0.0600	<0.00100
	MW-41-20210109	9/1/2021	0.0580	<0.0100 B*	4.48 D	<0.00200	0.0100 J	<0.00100	<0.00200	<0.0100 B*	0.00300 J	1.84 D	0.0140 JH*	0.277	0.00500 J
	MW-41-20211111	11/11/2021	0.287	<0.0100 B*	4.59 D	0.0200	0.00500 J	<0.00100	<0.00200	0.00200 J	<0.00200	0.727	0.0150 JH*	0.155	0.00100 J

Table 26: Other Polycyclic Aromatic Hydrocarbons in Groundwater

			Other PAHs (µg/L) SW8270E/SW8270E-SIM												
Sample Location	Sample Name	Sample Date	1-Methylnaphthalene 804	2-Methylnaphthalene 14	Acenaphthene 5.34	Acenaphthylene NA	Anthracene 2.1	Benzo(g,h,i) perylene NA	Benzo(j) fluoranthene NA	Dibenzofuran 3.092023052	Fluoranthene 1.8	Fluorene 3.7	Naphthalene 1.4	Phenanthrene NA	Pyrene 2.0
MW-46	MW-46-20212402	2/24/2021	2.59 D	2.97 D	4.47 D	0.0760 D	0.0430 J, D	<0.00100	<0.00200	0.332 D	0.0590	1.06 D	**27.6 D, B**	0.402 D	0.0260
	MW-46-20211405	5/14/2021	1.47 E	1.61 E	2.96 E	0.0760	0.104	<0.00100	<0.00200	0.593	0.0690	1.54 E	**4.09 E**	1.41 E	0.0270
	MW-46-20211708	8/17/2021	0.0300	0.0140	2.18 D	0.0140	0.0260	<0.00100	<0.00200	0.00800 J	0.0370	0.114	<0.0100 B*	0.338	0.0160
	MW-46-20212211	11/22/2021	0.515	0.391	4.16 D	0.0450	0.0480	<0.00100	<0.00200	0.0750	0.0490	0.807	0.342	0.370	0.0280
MW-47	MW-47-20212402	2/24/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-47-20212705	5/27/2021	<0.0300	<0.0300	0.700	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-47-20212708	8/27/2021	<0.0300	<0.0300	0.400	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-47-20211911	11/19/2021	<0.0300	<0.0300	0.100 J	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
MW-51	MW-51-20211002	2/10/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
MW-52	MW-52-20211202	2/12/2021	<0.000900	<0.0100 B*	0.0840	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	0.00300 J	<0.0100 B*	<0.00100	<0.00100
	MW-52-20212605	5/26/2021	<0.0100 B*	<0.00100 B*	0.0790	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	MW-52-20212708	8/27/2021	<0.0100 B*	<0.0100 B*	0.0370	<0.00200	0.00100 J	<0.00100	<0.00200	0.00300 J	<0.00200	<0.00200	<0.0100 B*	0.00100 J	<0.00100
	MW-52-20210112	12/1/2021	0.00100 J	0.00200 J	0.0700	<0.00200	<0.0100 B*	<0.00100	<0.00200	0.00300 J	<0.00200	<0.00200	<0.0100 B*	<0.0100 B*	<0.0100 B*
MW-53	MW-101-20212202 (DUP)	2/22/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00300 J	<0.00100	0.00300 J
	MW-53-20212202	2/22/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00300 J	<0.00100	<0.00100
	MW-53-20212505	5/25/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	0.00200 J	<0.00200	<0.00100	<0.00100	0.00400 J
	MW-53-20210109	9/1/2021	0.00100 J	<0.0100 B*	0.00700 J	<0.00200	<0.00100	<0.00100	<0.00200	<0.0100 B*	<0.00200	<0.00200	<0.0100 B*	<0.00100	0.00300 J
	MW-53-20210112	12/1/2021	0.00100 J	0.00200 J	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	0.00200 J	<0.00200	<0.0100 B*	<0.0100 B*	<0.0100 B*
MW-54	MW-54-20211802	2/18/2021	<0.00100	<0.00100	<0.00300	<0.00200	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00400 J	<0.00100	<0.00100
	MW-54-20212405	5/24/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	MW-54-20212008	8/20/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	MW-54-20210312	12/3/2021	0.00100 J	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.0100 B*
MW-55	MW-55-20211102	2/11/2021	0.0120	0.0230	0.121	<0.00200	0.00100 J	<0.00100	<0.00200	0.00300 J	0.00300 J	0.00300 J	<0.0100 B*	0.0100	0.00200 J
	MW-55-20211405	5/14/2021	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-55-20212408	8/24/2021	0.00200 J	0.00200 J	0.208	0.00200 J	0.00300 J	<0.00100	<0.00200	<0.00200	0.00700 J	0.00400 J	0.00400 J	0.0270	0.00400 J
	MW-55-20211811	11/18/2021	0.00200 J	<0.00100 B*	0.207	<0.00200	0.00400 J	<0.00200	<0.00200	<0.00200	0.0130	0.00900 J	<0.00100 B*	0.0310	0.00800 J
MW-56	MW-56-20211002	2/10/2021	<0.0100 B*	0.00200 J	0.0950	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	0.00200 J	0.00600 J	<0.0100 B*	0.00600 J	0.00100 J
	MW-56-20211705	5/17/2021	<0.000900 B*	<0.00100 B*	0.102	<0.00200	0.00100 J	<0.00100	<0.00200	<0.00200	0.00200 J	0.00500 J	<0.00100 B*	0.00600 J	<0.00100 B*
	MW-56-20213008	8/30/2021	0.00200 J	<0.0100 B*	0.0530	<0.00200	0.00200 J	<0.00100	<0.00200	<0.0100 B*	<0.0100 B*	0.00400 J	<0.0100 B*	<0.0100 B*	<0.0100 B*
	MW-56-20212211	11/22/2021	<0.0100 B*	<0.0100 B*	0.158	<0.00200	0.00100 J	<0.00100	<0.00200	0.00200 J	0.00200 J	0.00800 J	<0.0100 B*	0.00600 J	0.00200 J
MW-57	MW-57-20211802	2/18/2021	0.0170	0.0190	<0.00300	<0.00200	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00900 J	<0.00100	<0.00100
	MW-101-20211905 (DUP)	5/19/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	MW-57-20211905	5/19/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	MW-57-20213108	8/31/2021	0.00700 JH*	0.00800 JH*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.0100 B*	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	MW-57-20211111	11/11/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	0.00200 J	0.00100 J

Table 26: Other Polycyclic Aromatic Hydrocarbons in Groundwater

			Other PAHs (µg/L) SW8270E/SW8270E-SIM												
Sample Location	Sample Name	Sample Date	1-Methylnaphthalene 804	2-Methylnaphthalene 14	Acenaphthene 5.34	Acenaphthylene NA	Anthracene 2.1	Benzo(g,h,i) perylene NA	Benzo(j) fluoranthene NA	Dibenzofuran 3.092023052	Fluoranthene 1.8	Fluorene 3.7	Naphthalene 1.4	Phenanthrene NA	Pyrene 2.0
MW-58	MW-58-20211802	2/18/2021	<0.00100	0.00600 J	<0.00300	<0.00200	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00700 J	<0.00100	<0.00100
	MW-58-20211705	5/17/2021	0.844	0.949	0.0170	<0.00200	<0.00100	<0.00100	<0.00200	0.00200 J	<0.00200	0.0130	**9.70 D**	0.00600 J	<0.00100 B*
	MW-58-20212508	8/25/2021	0.458	0.243	0.0150	<0.00200	<0.00100	<0.00100	<0.00200	<0.0100 B*	0.00200 J	0.0150	**2.62 D**	<0.0100 B*	0.00200 J
	MW-58-20211211	11/12/2021	0.321	0.0190 JH*	0.0170	<0.00200	<0.00100	<0.00100	<0.00200	0.00200 J	0.00200 J	0.0130	0.288	0.00700 J	0.00200 J
MW-59	MW-59-20211202	2/12/2021	0.00100 J	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	0.00200 J	<0.00100
	MW-59-20211805	5/18/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	MW-59-20212508	8/25/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.0100 B*	<0.00200	<0.00200	<0.0100 B*	<0.0100 B*	<0.00100
	MW-59-20213011	11/30/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	0.00200 J	<0.00200	<0.00200	<0.0100 B*	<0.0100 B*	<0.0100 B*
MW-60	MW-60-20211702	2/17/2021	2.72 D	0.0300	**35.8 D**	0.0750	0.157 J, D	<0.00100	<0.00200	0.0380	0.0200	**5.13 D**	0.0290	1.10 D	0.00700 J
	MW-60-20211705	5/17/2021	0.868	0.0140	**27.0 D**	0.0290	0.0620	<0.00100	<0.00200	0.0310	0.00900 J	2.08 D	0.0120	0.941	<0.00100 B*
	MW-60-20210109	9/1/2021	0.632	0.00900 JH*	**16.6 D**	<0.00200	0.0390	<0.00100	<0.00200	0.0250	0.00400 J	1.39 D	<0.0100 B*	0.607	0.00200 J
	MW-60-20211711	11/17/2021	2.83 D	0.0270	**47.6 D**	0.101	0.180	<0.00100	<0.00200	0.0490	0.0140	—	<0.00100	3.62 D	0.00500 J
MW-61	MW-61-20212202	2/22/2021	<0.000900	<0.00100	0.0150	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00400 J	<0.00100	<0.00100
	MW-61-20212105	5/21/2021	<0.0100 B*	<0.0100 B*	0.218	0.00400 J	<0.00100	<0.00100	<0.00200	0.00400 J	0.00200 J	0.00600 J	<0.0100 B*	<0.0100 B*	0.00400 J
	MW-61-20210209	9/2/2021	0.0540 JH*	0.00600 JH*	3.78 D	0.0110	0.0320	<0.00100	<0.00200	0.0130 JH*	0.0190	0.0450	<0.0130 B*	0.0610	0.0140
	MW-61-20210112	12/1/2021	0.0310	0.0100	0.777	0.00600 J	<0.0100 B*	0.00200 J	<0.00200	0.0130	0.0140	0.0140	0.0200	0.0210	0.0190 JH*
MW-62	MW-62-20211802	2/18/2021	<0.00100	<0.00100	<0.00300	<0.00200	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00500 J	<0.00100	<0.00100
	MW-103-20211905 (DUP)	5/19/2021	0.00200 J*	0.00300 J*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	0.00200 J	0.00200 J	<0.00200	0.00500 J*	0.00200 J	0.00200 J
	MW-62-20211905	5/19/2021	0.00300 J*	0.00200 J*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00300 J*	<0.00100	<0.00100
	MW-62-20213108	8/31/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.0100 B*	<0.00200	<0.00200	<0.0100 B*	0.00100 J	<0.00100
	MW-62-20211111	11/11/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	0.00200 J	0.00100 J
MW-63	MW-103-20211702 (DUP)	2/17/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-63-20211702	2/17/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-63-20212005	5/20/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-63-20210109	9/1/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-63-20211611	11/16/2021	<0.0300	<0.0300	0.0900 J	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
MW-64	MW-64-20211602	2/16/2021	<0.000900	<0.00100	0.0230	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100
	MW-64-20212005	5/20/2021	0.00300 J	0.00300 J	0.00700 J	<0.00200	0.00100 J	<0.00100	<0.00200	<0.00200	0.00600 J	<0.00200	0.00700 J	0.00400 J	0.00700 J
	MW-64-20210109	9/1/2021	0.00100 J	<0.0100 B*	0.0190	<0.00200	<0.00100	<0.00100	<0.00200	<0.0100 B*	<0.00200	<0.00200	<0.0100 B*	<0.00100	0.00200 J
	MW-64-20211611	11/16/2021	0.0120	0.0120	0.0470 JH*	<0.00200	0.00400 J	<0.00100	<0.00200	0.00800 J	0.0100 J	0.0130	<0.0100 B*	0.0270	0.00700 J
MW-65	MW-65-20212502	2/25/2021	<0.000900	0.00200 J	0.00400 J	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	MW-65-20211305	5/13/2021	0.00100 J	0.00200 J	0.00400 J	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	0.00200 J	<0.00200	0.00800 JH*	0.00200 J	<0.0100 B*
	MW-65-20210209	9/2/2021	<0.0100 B*	<0.0100 B*	0.00400 J	<0.00200	<0.00100	<0.00100	<0.00200	<0.0100 B*	0.00200 J	<0.00200	<0.0100 B*	0.00200 J	0.00200 J
	MW-65-20210911	11/9/2021	0.000900 J	0.00100 J	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.0100 B*	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.0100 B*

Table 26: Other Polycyclic Aromatic Hydrocarbons in Groundwater

			Other PAHs (µg/L) SW8270E/SW8270E-SIM												
Sample Location	Sample Name	Sample Date	1-Methylnaphthalene 804	2-Methylnaphthalene 14	Acenaphthene 5.34	Acenaphthylene NA	Anthracene 2.1	Benzo(g,h,i) perylene NA	Benzo(j) fluoranthene NA	Dibenzofuran 3.092023052	Fluoranthene 1.8	Fluorene 3.7	Naphthalene 1.4	Phenanthrene NA	Pyrene 2.0
MW-66	MW-66-20211002	2/10/2021	<0.0100 B*	0.00500 J	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	0.00200 J	<0.00200	<0.00200	<0.0100 B*	0.00200 J	<0.00100
	MW-66-20211305	5/13/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	MW-102-20212308 (DUP)	8/23/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100	0.00200 J	<0.00100
	MW-66-20212308	8/23/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00200 J	0.00200 J	<0.00100
	MW-66-20211011	11/10/2021	0.00100 J	<0.0100 B*	<0.00300	<0.00200	0.00100 J	<0.00100	<0.00200	<0.0100 B*	<0.00200	<0.00200	<0.0100 B*	0.00100 J	<0.0100 B*
MW-67	MW-67-20212302	2/23/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-67-20212405	5/24/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-67-20211808	8/18/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-67-20211908	8/19/2021	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-67-20210112	12/1/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
MW-68	MW-68-20211602	2/16/2021	<0.0300	<0.0300	0.0700 J	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-68-20211708	8/17/2021	<0.0300	<0.0300	0.0400 J	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-68-20211711	11/17/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
MW-69	MW-69-20211102	2/11/2021	—	—	—	—	—	—	—	—	—	—	11.8	—	—
MW-70	MW-70-20211102	2/11/2021	0.00700 JH*	0.0100 JH*	0.00800 J	<0.00200	<0.00100	<0.00100	<0.00200	0.00500 J	<0.00200	0.00600 J	0.0280 JH*	0.00800 J	0.00100 J
	MW-70-20212605	5/26/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	0.00200 J	<0.00200	0.00200 J	<0.0100 B*	0.00300 J	<0.00100
	MW-70-20212308	8/23/2021	0.155	0.0460	0.349	<0.00200	0.132	<0.00100	<0.00200	0.260	0.154	0.366	0.135	0.604	0.0850
	MW-70-20213011	11/30/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	0.00200 J	<0.00100	<0.00200	0.00200 J	<0.00200	<0.00200	<0.0100 B*	<0.0100 B*	<0.0100 B*
MW-71	MW-71-20211702	2/17/2021	0.0130	<0.00100	0.143	<0.00200	<0.00100	<0.00100	<0.00200	0.00300 J	<0.00200	0.0240	0.00500 J	0.00600 J	<0.00100
	MW-71-20211805	5/18/2021	<0.0100 B*	<0.0100 B*	0.0910	<0.00200	<0.00100	<0.00100	<0.00200	0.00300 J	<0.00200	0.0120	<0.0100 B*	0.00400 J	<0.00100
	MW-71-20211708	8/17/2021	0.0400	0.00300 J	0.464	<0.00200	<0.00100	<0.00100	<0.00200	0.00500 J	<0.00200	0.0300	<0.0100 B*	0.00800 J	<0.00100
	MW-71-20211611	11/16/2021	<0.0100 B*	<0.0100 B*	0.0460 JH*	<0.00200	<0.00100	<0.00100	<0.00200	0.00200 J	<0.00200	0.00600 J	<0.0100 B*	0.00300 J	<0.00100
MW-72	MW-72-20211602	2/16/2021	<0.000900	<0.00100	0.00600 J	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100	<0.00100	<0.00100
	MW-72-20212105	5/21/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-72-20212608	8/26/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-72-20211711	11/17/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-72-20213011	11/30/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
MW-73	MW-73-20212202	2/22/2021	0.00900 J	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00600 J	<0.00100	0.0620
	MW-73-20212005	5/20/2021	0.00900 J	0.0160	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	0.0110	<0.00200	0.00500 J	0.00700 J	0.0660
	MW-73-20212708	8/27/2021	0.00700 JH*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	0.0170	<0.00200	<0.0100 B*	<0.00100	0.118
	MW-73-20212911	11/29/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	0.00900 J	0.0230	<0.0100 B*	<0.00100	0.0900
MW-74	MW-74-20212202	2/22/2021	0.0120	0.0130	0.359	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00600 J	<0.00100	<0.00100
	MW-74-20212005	5/20/2021	0.00500 J	0.00500 J	0.348	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00500 J	0.00200 J	<0.00100
	MW-74-20210209	9/2/2021	0.00600 JH*	0.00600 JH*	0.299	<0.00200	<0.00100	<0.00100	<0.00200	<0.0100 B*	<0.00200	<0.00200	<0.0100 B*	0.00200 J	0.00100 J
	MW-74-20212411	11/24/2021	0.00600 J	0.00600 JH*	0.369	0.00200 J	0.00200 J	<0.00100	<0.00200	0.00200 J	0.00200 J	0.00300 J	<0.00100 B*	0.00400 J	0.00200 J

Table 26: Other Polycyclic Aromatic Hydrocarbons in Groundwater

			Other PAHs (µg/L) SW8270E/SW8270E-SIM												
Sample Location	Sample Name	Sample Date	1-Methylnaphthalene 804	2-Methylnaphthalene 14	Acenaphthene 5.34	Acenaphthylene NA	Anthracene 2.1	Benzo(g,h,i) perylene NA	Benzo(j) fluoranthene NA	Dibenzofuran 3.092023052	Fluoranthene 1.8	Fluorene 3.7	Naphthalene 1.4	Phenanthrene NA	Pyrene 2.0
MW-75	MW-75-20211802	2/18/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-75-20212405	5/24/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-101-20213108 (DUP)	8/31/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-75-20213108	8/31/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
	MW-75-20211211	11/12/2021	<0.0300	<0.0300	<0.0300	<0.0200	<0.0300	<0.0400	—	<0.0200	<0.0300	<0.0200	<0.0300	<0.0200	<0.0300
MW-76	MW-100-20211002 (DUP)	2/10/2021	0.00200 J	0.00300 J	0.400	<0.00200	0.0140	<0.00100	<0.00200	0.00200 J	0.0140	0.0160	0.00400 J	0.400	0.00600 J
	MW-76-20211002	2/10/2021	0.00200 J	0.00200 J	0.400	0.00200 J	0.0120	<0.00100	<0.00200	0.00200 J	0.0120	0.0150	0.00400 J	0.400	0.00500 J
	MW-76-20211305	5/13/2021	0.00100 J	0.00100 J	0.500	<0.00200	0.0200	<0.00100	<0.00200	0.00200 J	0.0170	0.0150	<0.0100 B*	0.500 JH*	0.00700 JH*
	MW-76-20211708	8/17/2021	<0.000900	<0.00100	0.424	<0.00200	0.0110	<0.00100	<0.00200	<0.00200	0.00700 J	0.00700 J	<0.0100 B*	0.300	0.00400 J
	MW-76-20211811	11/18/2021	0.00200 J	<0.00100 B*	0.658	0.00300 J	0.0230	<0.00200	<0.00200	0.00300 J	0.0100 J	0.0190	<0.00100 B*	0.442	0.00500 J
Equipment Blank Samples	EB-2-20211102	2/11/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	EB-1-20211705	5/17/2021	0.00100 J	0.00200 J	0.00300 J	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00100 B*	<0.00100	<0.00100
	EB-2-20212505	5/25/2021	<0.000900	<0.00100	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	0.00100 J	<0.00100	<0.00100
	EB-1-20212008	8/20/2021	0.00300 J	<0.0100 B*	<0.00300	0.0460	0.00300 J	<0.00100	<0.00200	0.00300 J	0.00300 J	0.00300 J	<0.0100 B*	0.0110	0.00200 J
	EB-2-20212508	8/25/2021	<0.0100 B*	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	0.00200 J	<0.00100
	EB-1-20211011	11/10/2021	<0.000900	0.00200 J	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	EB-2-20211611	11/16/2021	0.00200 J	<0.0100 B*	0.00800 J	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100
	EB-3-20212211	11/22/2021	0.00100 J	<0.0100 B*	<0.00300	<0.00200	<0.00100	<0.00100	<0.00200	<0.00200	<0.00200	<0.00200	<0.0100 B*	<0.00100	<0.00100

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— Not analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

B* Result is included in the same preparatory batch as a blank detection for the associated analyte. Result is considered non-detect. Flag applied by Shannon & Wilson (*).

D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.

J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*).

DUP = field duplicate; µg/L = micrograms per liter; PAHs = polycyclic aromatic hydrocarbons

Table 27: Limited Semivolatile Organic Compounds in Groundwater

			Limited SVOCs (µg/L)								
			1,2-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dimethylphenol	Benzoic Acid	SW8270E Bis (2-Ethylhexyl) Phthalate	Butylbenzylphthalate	Di-N-Butylphthalate	N-Nitrosodiphenylamine	Pentachlorophenol
			4.5	5.0	2.9 (3.0)	589	0.046 (0.2)	0.013 (0.2)	8	0.55	0.002 (1.0)
Sample Location	Sample Name	Sample Date									
MW-14	MW-14-20211902	2/19/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-14-20211405	5/14/2021	<0.0300	<0.0300	<0.300	0.200 J	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-14-20210209	9/2/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-14-20212411	11/24/2021	<0.0300 J*	<0.0300 J*	<0.300	0.600 J	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
MW-24	MW-24-20211102	2/11/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-24-20211805	5/18/2021	<0.0300	<0.0300	<0.300	0.300 J	**0.300**	<0.0700	<0.0500	<0.0300	<0.100
	MW-24-20212508	8/25/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	**0.700**	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-100-20210112 (DUP)	12/1/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-24-20210112	12/1/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
MW-31	MW-31-20212402	2/24/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-31-20211805	5/18/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-31-20212708	8/27/2021	<0.0300	<0.0300	<0.300 J*	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-31-20211811	11/18/2021	<0.0300	<0.0300	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
MW-32	MW-32-20212202	2/22/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-102-20212405 (DUP)	5/24/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	1.10	<0.0300 J*	<0.100
	MW-32-20212405	5/24/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	0.900	<0.0300 J*	<0.100
	MW-32-20212608	8/26/2021	<0.0300 J*	0.0400 JL*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-101-20210312 (DUP)	12/3/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-32-20210312	12/3/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
MW-40	MW-40-20212502	2/25/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-40-20212005	5/20/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.400 B*	<0.0300	<0.100
	MW-40-20210109	9/1/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-102-20211111 (DUP)	11/11/2021	<0.0300	<0.0300	<0.300	<0.100	**0.200 J**	<0.0700	<0.0500	<0.0300	<0.100
	MW-40-20211111	11/11/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
MW-41	MW-41-20212502	2/25/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-41-20212005	5/20/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.400 B*	<0.0300	<0.100
	MW-41-20210109	9/1/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-41-20211111	11/11/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
MW-46	MW-46-20212402	2/24/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-46-20211405	5/14/2021	<0.0300	<0.0300	<0.300	0.800 J	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-46-20211708	8/17/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-46-20212211	11/22/2021	<0.0300 J*	<0.0300 J*	<0.300	0.400 J	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100

Table 27: Limited Semivolatile Organic Compounds in Groundwater

			Limited SVOCs (µg/L)								
			1,2-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dimethylphenol	Benzoic Acid	SW8270E Bis (2-Ethylhexyl) Phthalate	Butylbenzylphthalate	Di-N-Butylphthalate	N-Nitrosodiphenylamine	Pentachlorophenol
			4.5	5.0	2.9 (3.0)	589	0.046 (0.2)	0.013 (0.2)	8	0.55	0.002 (1.0)
Sample Location	Sample Name	Sample Date									
MW-47	MW-47-20212402	2/24/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-47-20212705	5/27/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-47-20212708	8/27/2021	<0.0300 J*	<0.0300 J*	<0.300 J*	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-47-20211911	11/19/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
MW-51	MW-51-20211002	2/10/2021	<0.0300	<0.0300	<0.300	0.300 J	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-51-20212105	5/21/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.300 B*	<0.0300	<0.100
	MW-51-20212408	8/24/2021	<0.0300	<0.0300	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-51-20210212	12/2/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
MW-53	MW-101-20212202 (DUP)	2/22/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-53-20212202	2/22/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-53-20212505	5/25/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-53-20210109	9/1/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-53-20210112	12/1/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
MW-54	MW-54-20211802	2/18/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-54-20212405	5/24/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-54-20212008	8/20/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J *	<0.100
	MW-54-20210312	12/3/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
MW-63	MW-103-20211702 (DUP)	2/17/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-63-20211702	2/17/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-63-20212005	5/20/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-63-20210109	9/1/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-63-20211611	11/16/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
MW-65	MW-65-20212502	2/25/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-65-20211305	5/13/2021	<0.0300	<0.0300	<0.300	0.300 J	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-65-20210209	9/2/2021	<0.0300	<0.0300	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-65-20210911	11/9/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
MW-67	MW-67-20212302	2/23/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	**0.200 J**	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-67-20212405	5/24/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	0.100 J	<0.0300 J*	<0.100
	MW-67-20211808	8/18/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-67-20210112	12/1/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
MW-68	MW-68-20211602	2/16/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	**0.200 J**	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-68-20211708	8/17/2021	<0.0300	<0.0300	<0.300	0.300 J	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-68-20211711	11/17/2021	<0.0300	<0.0300	<0.300	<0.100 J*	**0.200 J**	<0.0700	<0.0500	<0.0300	<0.100

Table 27: Limited Semivolatile Organic Compounds in Groundwater

			Limited SVOCs (µg/L)								
			SW8270E								
			1,2-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dimethylphenol	Benzoic Acid	Bis (2-Ethylhexyl) Phthalate	Butylbenzylphthalate	Di-N-Butylphthalate	N-Nitrosodiphenylamine	Pentachlorophenol
			4.5	5.0	2.9 (3.0)	589	0.046 (0.2)	0.013 (0.2)	8	0.55	0.002 (1.0)
Sample Location	Sample Name	Sample Date									
MW-69	MW-69-20211102	2/11/2021	1.50	**5.10**	<0.300	<0.100	<0.200	<0.0700	<0.0600	<0.0300	<0.200
	MW-69-20212605	5/26/2021	1.30 JL*	**5.00 JL***	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-69-20212408	8/24/2021	1.30 JL*	**5.90 JL***	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-69-20210212	12/2/2021	0.800 JL*	4.00 JL*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
MW-72	MW-72-20211602	2/16/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-72-20212105	5/21/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.400 B*	<0.0300	<0.100
	MW-72-20212608	8/26/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-72-20211711	11/17/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	**0.200 J**	<0.0700	<0.0500	<0.0300	<0.100
	MW-72-20213011	11/30/2021	<0.0300	<0.0300	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
MW-75	MW-75-20211802	2/18/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-75-20212405	5/24/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200 B*	<0.0700	1.10	<0.0300 J*	<0.100
	MW-101-20213108 (DUP)	8/31/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-75-20213108	8/31/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	MW-75-20211211	11/12/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-100-20211002 (DUP)	2/10/2021	<0.0400	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.0600	<0.0300	<0.200
MW-76	MW-76-20211002	2/10/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-76-20211305	5/13/2021	<0.0300	<0.0300	<0.300	0.300 J	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-76-20211708	8/17/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	MW-76-20211811	11/18/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
Decon	Decon-20212605	5/26/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
Equipment Blank Samples	EB-2-20211102	2/11/2021	<0.0300	<0.0300	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	EB-2-20212505	5/25/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	EB-1-20212008	8/20/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	EB-2-20212508	8/25/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	EB-3-20210209	9/2/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300 J*	<0.100
	EB-1-20211011	11/10/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	EB-2-20211611	11/16/2021	<0.0300 J*	<0.0300 J*	<0.300	<0.100 J*	<0.200	<0.0700	<0.0500	<0.0300	<0.100
	EB-3-20212211	11/22/2021	<0.100 J*	<0.0800 J*	<0.800	<0.400	**<0.500**	<0.200	<0.200	<0.0800 J*	<0.400

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

< Analyte was not detected; reported as less than the detection limit (<DL).

J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.

B* Result is included in the same preparatory batch as a blank detection for the associated analyte. Result is considered non-detect. Flag applied by Shannon & Wilson (*).

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).

DUP = field duplicate; µg/L = micrograms per liter; SVOC = semivolatile organic compound

Table 28A: Other Semivolatile Organic Compounds in Groundwater

			Phenols (µg/L) SW8270E (SVOC)							
Sample Location	Sample Name	Sample Date	2,4,5-Trichlorophenol 600	2,4,6-Trichlorophenol 0.28 (1.0)	2,4-Dichlorophenol 10	2,4-Dinitrophenol 100	2-Chlorophenol 17	2-Methylphenol 11	2-Nitrophenol NA	4,6-Dinitro-2-Methylphenol 7
MW-47	MW-47-20212402	2/24/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-47-20212705	5/27/2021	<0.100	<0.200	<0.100	<0.200	<0.0300	<0.0300	<0.0400	<0.400
	MW-47-20212708	8/27/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-47-20211911	11/19/2021	<0.100	<0.200	<0.100	<0.200	<0.0300	<0.0300	<0.0400	<0.400
MW-51	MW-51-20211002	2/10/2021	<0.100	<0.200	<0.100	<0.200	<0.0300	<0.0300	<0.0400	<0.400
MW-63	MW-103-20211702	2/17/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-63-20211702	2/17/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-63-20212005	5/20/2021	<0.100	<0.200	<0.100	<0.200	<0.0300	<0.0300	<0.0400	<0.400
	MW-63-20210109	9/1/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-63-20211611	11/16/2021	<0.100	<0.200	<0.100	<0.200 J*	<0.0300	<0.0300	<0.0400	<0.400
MW-67	MW-67-20212302	2/23/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-67-20212405	5/24/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-67-20211808	8/18/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-67-20210112	12/1/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
MW-68	MW-68-20211602	2/16/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-68-20211708	8/17/2021	<0.100	<0.200	<0.100	<0.200	<0.0300	<0.0300	<0.0400	<0.400
	MW-68-20211711	11/17/2021	<0.100	<0.200	<0.100 J*	<0.200	<0.0300	<0.0300	<0.0400	<0.400
MW-72	MW-72-20211602	2/16/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-72-20212105	5/21/2021	<0.100	<0.200	<0.100	<0.200	<0.0300	<0.0300	<0.0400	<0.400
	MW-72-20212608	8/26/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400 J*	<0.400
	MW-72-20211711	11/17/2021	<0.100	<0.200	<0.100 J*	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-72-20213011	11/30/2021	<0.100	<0.200	<0.100	<0.200	<0.0300	<0.0300	<0.0400	<0.400
MW-75	MW-75-20211802	2/18/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-75-20212405	5/24/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-101-20213108 (DUP)	8/31/2021	<0.100	<0.200	<0.100 J*	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-75-20213108	8/31/2021	<0.100	<0.200	<0.100 J*	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400
	MW-75-20211211	11/12/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400

Table 28A: Other Semivolatile Organic Compounds in Groundwater

			Phenols (µg/L) SW8270E (SVOC)							
Sample Location	Sample Name	Sample Date	2,4,5-Trichlorophenol 600	2,4,6-Trichlorophenol 0.28 (1.0)	2,4-Dichlorophenol 10	2,4-Dinitrophenol 100	2-Chlorophenol 17	2-Methylphenol 11	2-Nitrophenol NA	4,6-Dinitro-2-Methylphenol 7
MW-76	MW-100-20211002 (DUP)	2/10/2021	<0.100	<0.200	<0.100	<0.200	<0.0300	<0.0300	<0.0400	<0.400
	MW-76-20211002	2/10/2021	<0.100	<0.200	<0.100	<0.200	<0.0300	<0.0300	<0.0400	<0.400
	MW-76-20211305	5/13/2021	<0.100	<0.200	<0.100	<0.200	<0.0300	<0.0300	<0.0400	<0.400
	MW-76-20211708	8/17/2021	<0.100	<0.200	<0.100	<0.200	<0.0300	<0.0300	<0.0400	<0.400
	MW-76-20211811	11/18/2021	<0.100	<0.200	<0.100	<0.200	<0.0300 J*	<0.0300 J*	<0.0400	<0.400

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— Not analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

DUP = field duplicate; µg/L = micrograms per liter; SVOCs = semivolatile organic compounds

Table 28B: Other Semivolatile Organic Compounds in Groundwater

			Phenols (µg/L)				Chlorinated Benzenes (µg/L)		
			4-Chloro-3-Methylphenol	4-Methylphenol	4-Nitrophenol	SW8270E Phenol	1,2,4-Trichlorobenzene	1,3-Dichlorobenzene	Hexachlorobenzene
			36	106	NA	101	0.037 (0.5)	2	0.000005 (0.2)
Sample Location	Sample Name	Sample Date							
MW-47	MW-47-20212402	2/24/2021	<0.100	<0.0300 J*	R*	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-47-20212705	5/27/2021	<0.100	<0.0300	<0.0600	<0.0100	<0.0300	<0.0300	<0.0400
	MW-47-20212708	8/27/2021	<0.100	<0.0300	<0.0600	<0.0100 J*	<0.0300	0.0600 JL*	<0.0400
	MW-47-20211911	11/19/2021	<0.100	<0.0300	<0.0600 J*	<0.0100	<0.0300	<0.0300	<0.0400
MW-51	MW-51-20211002	2/10/2021	<0.100	<0.0300	<0.0600	<0.0100	<0.0300	<0.0300	<0.0400
MW-63	MW-103-20211702 (DUP)	2/17/2021	<0.100	<0.0300 J*	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-63-20211702	2/17/2021	<0.100	<0.0300 J*	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-63-20212005	5/20/2021	<0.100	<0.0300	<0.0600	<0.0100	<0.0300	<0.0300	<0.0400
	MW-63-20210109	9/1/2021	<0.100	<0.0300	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-63-20211611	11/16/2021	<0.100	<0.0300	<0.0600 J*	<0.0100	<0.0300	<0.0300	<0.0400
MW-67	MW-67-20212302	2/23/2021	<0.100	<0.0300 J*	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-67-20212405	5/24/2021	<0.100	<0.0300	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-67-20211808	8/18/2021	<0.100	<0.0300 J*	<0.0600 J*	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-67-20210112	12/1/2021	<0.100	<0.0300	<0.0600 J*	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
MW-68	MW-68-20211602	2/16/2021	<0.100	<0.0300	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-68-20211708	8/17/2021	<0.100	<0.0300	<0.0600	<0.200 B*	<0.0300	<0.0300	<0.0400
	MW-68-20211711	11/17/2021	<0.100	<0.0300	<0.0600 J*	<0.0100	<0.0300	<0.0300	<0.0400
MW-69	MW-69-20211102	2/11/2021	—	—	—	—	<0.0400	—	—
MW-72	MW-72-20211602	2/16/2021	<0.100	<0.0300	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-72-20212105	5/21/2021	<0.100	<0.0300	<0.0600	<0.0100	<0.0300	<0.0300	<0.0400
	MW-72-20212608	8/26/2021	<0.100	<0.0300	<0.0600 J*	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-72-20211711	11/17/2021	<0.100	<0.0300 J*	<0.0600 J*	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-72-20213011	11/30/2021	<0.100	<0.0300	<0.0600 J*	<0.0100	<0.0300	<0.0300	<0.0400
MW-75	MW-75-20211802	2/18/2021	<0.100	<0.0300 J*	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-75-20212405	5/24/2021	<0.100	<0.0300	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-101-20213108 (DUP)	8/31/2021	<0.100	<0.0300	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-75-20213108	8/31/2021	<0.100	<0.0300	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400
	MW-75-20211211	11/12/2021	<0.100	<0.0300 J*	<0.0600	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400

Table 28B: Other Semivolatile Organic Compounds in Groundwater

			Phenols (µg/L)				Chlorinated Benzenes (µg/L)		
			4-Chloro-3-Methylphenol	4-Methylphenol	4-Nitrophenol	SW8270E Phenol	1,2,4-Trichlorobenzene	1,3-Dichlorobenzene	Hexachlorobenzene
			36	106	NA	101	0.037	2	0.000005
Sample Location	Sample Name	Sample Date					(0.5)		(0.2)
MW-76	MW-100-20211002 (DUP)	2/10/2021	<0.100	<0.0300	<0.0600	<0.0100	<0.0400	<0.0300	<0.0400
	MW-76-20211002	2/10/2021	<0.100	<0.0300	<0.0600	<0.0100	<0.0300	<0.0300	<0.0400
	MW-76-20211305	5/13/2021	<0.100	<0.0300	<0.0600	<0.0100	<0.0300	<0.0300	<0.0400
	MW-76-20211708	8/17/2021	<0.100	<0.0300	<0.0600	<0.200 B*	<0.0300	<0.0300	<0.0400
	MW-76-20211811	11/18/2021	<0.100	<0.0300 J*	<0.0600 J*	<0.0100 J*	<0.0300	<0.0300 J*	<0.0400

Notes:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— Not analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).

R* Rejected result due to severe quality control failures; see checklist for details. Flag applied by Shannon & Wilson (*).

DUP = field duplicate; µg/L = micrograms per liter; SVOCs = semivolatile organic compounds

Table 28C: Other Semivolatile Organic Compounds in Groundwater

			Phthalates (µg/L)			Other SVOCs (µg/L)			
						SW8270E			
			Diethylphthalate	Dimethylphthalate	Di-N-Octyl Phthalate	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Nitroaniline
			93	59	2.3	0.18	75	100	735464
Sample Location	Sample Name	Sample Date				(1.0)			
MW-10R	MW-10R-20211902	2/19/2021	—	—	—	—	—	<0.00100	—
MW-24	MW-24-20211102	2/11/2021	—	—	—	—	—	<0.00100	—
MW-25	MW-25-20211102	2/11/2021	—	—	—	—	—	<0.00100	—
MW-32	MW-32-20212202	2/22/2021	—	—	—	—	—	<0.00100	—
MW-37	MW-102-20212302 (DUP)	2/23/2021	—	—	—	—	—	<0.00100	—
	MW-37-20212302	2/23/2021	—	—	—	—	—	<0.00100	—
MW-40	MW-40-20212502	2/25/2021	—	—	—	—	—	<0.00100	—
MW-41	MW-41-20212502	2/25/2021	—	—	—	—	—	<0.00100	—
MW-47	MW-47-20212402	2/24/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-47-20212705	5/27/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-47-20212708	8/27/2021	0.100 J	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-47-20211911	11/19/2021	0.0800 J	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
MW-51	MW-51-20211002	2/10/2021	0.0900 J	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
MW-52	MW-52-20211202	2/12/2021	—	—	—	—	—	<0.00100	—
MW-53	MW-101-20212202	2/22/2021	—	—	—	—	—	<0.00100	—
	MW-53-20212202	2/22/2021	—	—	—	—	—	<0.00100	—
MW-54	MW-54-20211802	2/18/2021	—	—	—	—	—	<0.00100	—
MW-55	MW-55-20211102	2/11/2021	—	—	—	—	—	<0.00100	—
MW-56	MW-56-20211002	2/10/2021	—	—	—	—	—	<0.00100	—
MW-57	MW-57-20211802	2/18/2021	—	—	—	—	—	<0.00100	—
MW-58	MW-58-20211802	2/18/2021	—	—	—	—	—	<0.00100	—
MW-59	MW-59-20211202	2/12/2021	—	—	—	—	—	<0.00100	—
MW-60	MW-60-20211702	2/17/2021	—	—	—	—	—	<0.00100	—
MW-61	MW-61-20212202	2/22/2021	—	—	—	—	—	<0.00100	—
MW-62	MW-62-20211802	2/18/2021	—	—	—	—	—	<0.00100	—
MW-63	MW-103-20211702 (DUP)	2/17/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-63-20211702	2/17/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-63-20212005	5/20/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-63-20210109	9/1/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-63-20211611	11/16/2021	0.0700 J	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
MW-64	MW-64-20211602	2/16/2021	—	—	—	—	—	<0.00100	—
MW-65	MW-65-20212502	2/25/2021	—	—	—	—	—	<0.00100	—
MW-66	MW-66-20211002	2/10/2021	—	—	—	—	—	<0.00100	—

Table 28C: Other Semivolatile Organic Compounds in Groundwater

			Phthalates (µg/L)			Other SVOCs (µg/L)			
						SW8270E			
			Diethylphthalate	Dimethylphthalate	Di-N-Octyl Phthalate	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Nitroaniline
			93	59	2.3	0.18	75	100	735464
Sample Location	Sample Name	Sample Date				(1.0)			
MW-67	MW-67-20212302	2/23/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-67-20212405	5/24/2021	0.100 J	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-67-20211808	8/18/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-67-20210112	12/1/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
MW-68	MW-68-20211602	2/16/2021	0.0600 J	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-68-20211708	8/17/2021	0.100 J	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-68-20211711	11/17/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
MW-70	MW-70-20211102	2/11/2021	—	—	—	—	—	<0.00100	—
MW-71	MW-71-20211702	2/17/2021	—	—	—	—	—	<0.00100	—
MW-72	MW-72-20211602	2/16/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.00100	<0.200
	MW-72-20212105	5/21/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-72-20212608	8/26/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-72-20211711	11/17/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-72-20213011	11/30/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
MW-73	MW-73-20212202	2/22/2021	—	—	—	—	—	<0.00100	—
MW-74	MW-74-20212202	2/22/2021	—	—	—	—	—	<0.00100	—
MW-75	MW-75-20211802	2/18/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-75-20212405	5/24/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-101-20213108 (DUP)	8/31/2021	0.0700 J*	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-75-20213108	8/31/2021	0.100 J*	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-75-20211211	11/12/2021	<0.200 B*	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
MW-76	MW-100-20211002 (DUP)	2/10/2021	0.100 J*	<0.0400	<0.0500	<0.100	<0.200	<0.00100	<0.200
	MW-76-20211002	2/10/2021	0.200 J*	<0.0400	<0.0500	<0.100	<0.200	<0.00100	<0.200
	MW-76-20211305	5/13/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-76-20211708	8/17/2021	<0.0600	<0.0400	<0.0500	<0.100	<0.200	<0.0300	<0.200
	MW-76-20211811	11/18/2021	<0.0600	<0.0400	<0.0500	<0.100 J*	<0.200	<0.0300	<0.200
Equipment Blank Sample	EB-2-20211102	2/11/2021	—	—	—	—	—	<0.00100	—

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— Not analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

DUP = field duplicate; µg/L = micrograms per liter; SVOCs = semivolatile organic compounds

Table 28D: Other Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Name	Sample Date	Other SVOCs (µg/L) 3,3'-Dichlorobenzidine 0.0033 (1.0)	3-Nitroaniline NA	4-Bromophenyl Phenyl Ether NA	4-Chloroaniline 2401	SW8270E 4-Chlorophenyl-phenylether NA	4-Nitroaniline 105860	Bis(2-Chloro-1-Methylethyl) Ether 104	Bis (2-Chloroethoxy) Methane 682638	Bis (2-Chloroethyl) Ether 0.06 (0.2)
MW-47	MW-47-20212402	2/24/2021	<0.300	<0.200	<0.0200	R*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-47-20212705	5/27/2021	<0.300 J*	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300
	MW-47-20212708	8/27/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-47-20211911	11/19/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300
MW-51	MW-51-20211002	2/10/2021	<0.400	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300
MW-63	MW-103-20211702 (DUP)	2/17/2021	<0.300	<0.200	<0.0200	<0.0400	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-63-20211702	2/17/2021	<0.300	<0.200	<0.0200	<0.0400	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-63-20212005	5/20/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300
	MW-63-20210109	9/1/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200 J*	<0.0300	<0.0300	<0.0300 J*
	MW-63-20211611	11/16/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200 J*	<0.200	<0.0300	<0.0300	<0.0300
MW-67	MW-67-20212302	2/23/2021	<0.300	<0.200	<0.0200	R*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-67-20212405	5/24/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-67-20211808	8/18/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-67-20210112	12/1/2021	<0.300 J*	0.200 J	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
MW-68	MW-68-20211602	2/16/2021	<0.300 J*	<0.200 J*	<0.0200	R*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-68-20211708	8/17/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300
	MW-68-20211711	11/17/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200 J*	<0.200	<0.0300	<0.0300	<0.0300
MW-69	MW-69-20211102	2/11/2021	—	—	—	—	—	—	—	<0.0300	—
MW-72	MW-72-20211602	2/16/2021	<0.300 J*	<0.200 J*	<0.0200	R*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-72-20212105	5/21/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300
	MW-72-20212608	8/26/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-72-20211711	11/17/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200 J*	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-72-20213011	11/30/2021	<0.300 J*	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300
MW-75	MW-75-20211802	2/18/2021	<0.300 J*	<0.200 J*	<0.0200	R*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-75-20212405	5/24/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-101-20213108 (DUP)	8/31/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-75-20213108	8/31/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*
	MW-75-20211211	11/12/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300 J*

Table 28D: Other Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Name	Sample Date	Other SVOCs (µg/L) 3,3'-Dichlorobenzidine 0.0033 (1.0)	3-Nitroaniline NA	4-Bromophenyl Phenyl Ether NA	4-Chloroaniline 2401	SW8270E 4-Chlorophenyl-phenylether NA	4-Nitroaniline 105860	Bis(2-Chloro-1-Methylethyl) Ether 104	Bis (2-Chloroethoxy) Methane 682638	Bis (2-Chloroethyl) Ether 0.06 (0.2)
MW-76	MW-100-20211002 (DUP)	2/10/2021	<0.400	<0.200	<0.0200	<0.0500 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300
	MW-76-20211002	2/10/2021	<0.400	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300
	MW-76-20211305	5/13/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300
	MW-76-20211708	8/17/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200	<0.200	<0.0300	<0.0300	<0.0300
	MW-76-20211811	11/18/2021	<0.300	<0.200	<0.0200	<0.0400 J*	<0.0200 J*	<0.200	<0.0300	<0.0300	<0.0300 J*

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— Not analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

R* Rejected result due to severe quality control failures; see checklist for details. Flag applied by Shannon & Wilson (*).

DUP = field duplicate; µg/L = micrograms per liter; SVOCs = semivolatile organic compounds

Table 28E: Other Semivolatile Organic Compounds in Groundwater

			Other SVOCs (µg/L) SW8270E						
			Carbazole	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	N-Nitrosodi-N-Propylamine
			NA	0.01	1	0.02	110	100	0.058
Sample Location	Sample Name	Sample Date		(0.2)		(0.2)			(0.2)
MW-10R	MW-10R-20211902	2/19/2021	<0.00100	—	—	—	—	—	—
	MW-10R-20212505	5/25/2021	<0.00100	—	—	—	—	—	—
	MW-10R-20213108	8/31/2021	0.00200 J	—	—	—	—	—	—
	MW-10R-20212311	11/23/2021	<0.00100	—	—	—	—	—	—
MW-24	MW-24-20211102	2/11/2021	<0.00100	—	—	—	—	—	—
MW-25	MW-25-20211102	2/11/2021	<0.00100	—	—	—	—	—	—
	MW-25-20211805	5/18/2021	<0.00100	—	—	—	—	—	—
	MW-25-20212408	8/24/2021	<0.00100	—	—	—	—	—	—
	MW-25-20211011	11/10/2021	<0.0100 B*	—	—	—	—	—	—
MW-31	MW-31-20212402	2/24/2021	<0.00100	—	—	—	—	—	—
	MW-31-20211805	5/18/2021	0.00200 J	—	—	—	—	—	—
	MW-31-20212708	8/27/2021	0.00300 J	—	—	—	—	—	—
	MW-31-20211811	11/18/2021	0.00400 J	—	—	—	—	—	—
MW-32	MW-32-20212202	2/22/2021	<0.00100	—	—	—	—	—	—
	MW-102-20212405	5/24/2021	<0.00100	—	—	—	—	—	—
	MW-32-20212405	5/24/2021	<0.00100	—	—	—	—	—	—
	MW-32-20212608	8/26/2021	<0.00100	—	—	—	—	—	—
	MW-101-20210312 (DUP)	12/3/2021	<0.00100	—	—	—	—	—	—
	MW-32-20210312	12/3/2021	0.00100 J	—	—	—	—	—	—
MW-37	MW-102-20212302	2/23/2021	<0.00100	—	—	—	—	—	—
	MW-37-20212302	2/23/2021	<0.00100	—	—	—	—	—	—
	MW-37-20212105	5/21/2021	<0.00100	—	—	—	—	—	—
	MW-37-20210209	9/2/2021	<0.00100	—	—	—	—	—	—
	MW-37-20210312	12/3/2021	<0.00100	—	—	—	—	—	—
MW-40	MW-40-20212502	2/25/2021	<0.00100	—	—	—	—	—	—
	MW-40-20212005	5/20/2021	<0.00100	—	—	—	—	—	—
	MW-40-20210109	9/1/2021	<0.00100	—	—	—	—	—	—
	MW-102-20211111 (DUP)	11/11/2021	<0.00100	—	—	—	—	—	—
	MW-40-20211111	11/11/2021	<0.00100	—	—	—	—	—	—

Table 28E: Other Semivolatile Organic Compounds in Groundwater

			Other SVOCs (µg/L) SW8270E						
			Carbazole	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	N-Nitrosodi-N-Propylamine
			NA	0.01	1	0.02	110	100	0.058
Sample Location	Sample Name	Sample Date		(0.2)		(0.2)			(0.2)
MW-41	MW-41-20212502	2/25/2021	<0.00100	—	—	—	—	—	—
	MW-41-20212005	5/20/2021	<0.00100	—	—	—	—	—	—
	MW-41-20210109	9/1/2021	0.00200 J	—	—	—	—	—	—
	MW-41-20211111	11/11/2021	<0.00100	—	—	—	—	—	—
MW-46	MW-46-20212402	2/24/2021	0.934 D	—	—	—	—	—	—
	MW-46-20211405	5/14/2021	0.753	—	—	—	—	—	—
	MW-46-20211708	8/17/2021	<0.00100	—	—	—	—	—	—
	MW-46-20212211	11/22/2021	0.0250	—	—	—	—	—	—
MW-47	MW-47-20212402	2/24/2021	<0.0400	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-47-20212705	5/27/2021	<0.0400	<0.0400	<0.100 J*	<0.0400	<0.0300	<0.0300	<0.0400
	MW-47-20212708	8/27/2021	<0.0400	<0.0400	<0.100 J*	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-47-20211911	11/19/2021	<0.0400	<0.0400	<0.100	<0.0400	<0.0300	<0.0300	<0.0400
MW-51	MW-51-20211002	2/10/2021	<0.0400	<0.0400 J*	<0.100	<0.0400	<0.0300	<0.0300	<0.0400
MW-52	MW-52-20211202	2/12/2021	<0.00100	—	—	—	—	—	—
	MW-52-20212605	5/26/2021	<0.00100	—	—	—	—	—	—
	MW-52-20212708	8/27/2021	<0.00100	—	—	—	—	—	—
	MW-52-20210112	12/1/2021	<0.00100	—	—	—	—	—	—
MW-53	MW-101-20212202 (DUP)	2/22/2021	<0.00100	—	—	—	—	—	—
	MW-53-20212202	2/22/2021	<0.00100	—	—	—	—	—	—
	MW-53-20212505	5/25/2021	<0.00100	—	—	—	—	—	—
	MW-53-20210109	9/1/2021	<0.00100	—	—	—	—	—	—
	MW-53-20210112	12/1/2021	<0.00100	—	—	—	—	—	—
MW-54	MW-54-20211802	2/18/2021	<0.00100	—	—	—	—	—	—
	MW-54-20212405	5/24/2021	<0.00100	—	—	—	—	—	—
	MW-54-20212008	8/20/2021	<0.00100	—	—	—	—	—	—
	MW-54-20210312	12/3/2021	<0.00100	—	—	—	—	—	—
MW-55	MW-55-20211102	2/11/2021	<0.00100	—	—	—	—	—	—
	MW-55-20212408	8/24/2021	<0.00100	—	—	—	—	—	—
	MW-55-20211811	11/18/2021	0.0560	—	—	—	—	—	—

Table 28E: Other Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Name	Sample Date	Other SVOCs (µg/L) SW8270E Carbazole NA	Hexachlorobutadiene 0.01 (0.2)	Hexachlorocyclopentadiene 1	Hexachloroethane 0.02 (0.2)	Isophorone 110	Nitrobenzene 100	N-Nitrosodi-N-Propylamine 0.058 (0.2)
MW-56	MW-56-20211002	2/10/2021	<0.00100	—	—	—	—	—	—
	MW-56-20211705	5/17/2021	<0.00100	—	—	—	—	—	—
	MW-56-20213008	8/30/2021	0.00200 J	—	—	—	—	—	—
	MW-56-20212211	11/22/2021	<0.00100	—	—	—	—	—	—
MW-57	MW-57-20211802	2/18/2021	<0.00100	—	—	—	—	—	—
	MW-101-20211905 (DUP)	5/19/2021	<0.00100	—	—	—	—	—	—
	MW-57-20211905	5/19/2021	<0.00100	—	—	—	—	—	—
	MW-57-20213108	8/31/2021	0.00300 J	—	—	—	—	—	—
	MW-57-20211111	11/11/2021	<0.00100	—	—	—	—	—	—
MW-58	MW-58-20211802	2/18/2021	<0.00100	—	—	—	—	—	—
	MW-58-20211705	5/17/2021	<0.00100	—	—	—	—	—	—
	MW-58-20212508	8/25/2021	0.00200 J	—	—	—	—	—	—
	MW-58-20211211	11/12/2021	0.00200 J	—	—	—	—	—	—
MW-59	MW-59-20211202	2/12/2021	<0.00100	—	—	—	—	—	—
	MW-59-20211805	5/18/2021	<0.00100	—	—	—	—	—	—
	MW-59-20212508	8/25/2021	<0.00100	—	—	—	—	—	—
	MW-59-20213011	11/30/2021	<0.00100	—	—	—	—	—	—
MW-60	MW-60-20211702	2/17/2021	0.114	—	—	—	—	—	—
	MW-60-20211705	5/17/2021	0.0350	—	—	—	—	—	—
	MW-60-20210109	9/1/2021	0.0280	—	—	—	—	—	—
	MW-60-20211711	11/17/2021	0.197	—	—	—	—	—	—
MW-61	MW-61-20212202	2/22/2021	<0.00100	—	—	—	—	—	—
	MW-61-20212105	5/21/2021	<0.00100	—	—	—	—	—	—
	MW-61-20210209	9/2/2021	0.0100 J	—	—	—	—	—	—
	MW-61-20210112	12/1/2021	0.0110	—	—	—	—	—	—
MW-62	MW-62-20211802	2/18/2021	<0.00100	—	—	—	—	—	—
	MW-103-20211905 (DUP)	5/19/2021	<0.00100	—	—	—	—	—	—
	MW-62-20211905	5/19/2021	<0.00100	—	—	—	—	—	—
	MW-62-20213108	8/31/2021	0.00100 J	—	—	—	—	—	—
	MW-62-20211111	11/11/2021	<0.00100	—	—	—	—	—	—

Table 28E: Other Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Name	Sample Date	Other SVOCs (µg/L) SW8270E Carbazole NA	Hexachlorobutadiene 0.01 (0.2)	Hexachlorocyclopentadiene 1	Hexachloroethane 0.02 (0.2)	Isophorone 110	Nitrobenzene 100	N-Nitrosodi-N-Propylamine 0.058 (0.2)
MW-63	MW-103-20211702	2/17/2021	<0.0400	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-63-20211702	2/17/2021	<0.0400	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-63-20212005	5/20/2021	<0.0400	<0.0400	<0.100	<0.0400	<0.0300	<0.0300	<0.0400
	MW-63-20210109	9/1/2021	<0.0400	<0.0400	<0.100 J*	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-63-20211611	11/16/2021	<0.0400	<0.0400	<0.100 J*	<0.0400	<0.0300	<0.0300	<0.0400
MW-64	MW-64-20211602	2/16/2021	<0.00100	—	—	—	—	—	—
	MW-64-20212005	5/20/2021	<0.00100	—	—	—	—	—	—
	MW-64-20210109	9/1/2021	<0.00100	—	—	—	—	—	—
	MW-64-20211611	11/16/2021	0.00300 J	—	—	—	—	—	—
MW-65	MW-65-20212502	2/25/2021	<0.00100	—	—	—	—	—	—
	MW-65-20211305	5/13/2021	<0.00100	—	—	—	—	—	—
	MW-65-20210209	9/2/2021	<0.00100	—	—	—	—	—	—
	MW-65-20210911	11/9/2021	<0.0100 B*	—	—	—	—	—	—
MW-66	MW-66-20211002	2/10/2021	<0.00100	—	—	—	—	—	—
	MW-66-20211305	5/13/2021	<0.00100	—	—	—	—	—	—
	MW-102-20212308 (DUP)	8/23/2021	<0.00100	—	—	—	—	—	—
	MW-66-20212308	8/23/2021	<0.00100	—	—	—	—	—	—
	MW-66-20211011	11/10/2021	<0.0100 B*	—	—	—	—	—	—
MW-67	MW-67-20212302	2/23/2021	<0.0400	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-67-20212405	5/24/2021	<0.0400	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-67-20211808	8/18/2021	<0.0400	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-67-20210112	12/1/2021	<0.0400	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
MW-68	MW-68-20211602	2/16/2021	<0.0400	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-68-20211708	8/17/2021	<0.0400	<0.0400	<0.100	<0.0400	<0.0300	<0.0300	<0.0400
	MW-68-20211711	11/17/2021	<0.0400	<0.0400	<0.100 J*	<0.0400	<0.0300	<0.0300	<0.0400
MW-70	MW-70-20211102	2/11/2021	0.00100 J	—	—	—	—	—	—
	MW-70-20212605	5/26/2021	0.00100 J	—	—	—	—	—	—
	MW-70-20212308	8/23/2021	0.0930	—	—	—	—	—	—
	MW-70-20213011	11/30/2021	<0.00100	—	—	—	—	—	—

Table 28E: Other Semivolatile Organic Compounds in Groundwater

			Other SVOCs (µg/L) SW8270E						
			Carbazole	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	N-Nitrosodi-N-Propylamine
			NA	0.01	1	0.02	110	100	0.058
Sample Location	Sample Name	Sample Date		(0.2)		(0.2)			(0.2)
MW-71	MW-71-20211702	2/17/2021	0.0980	—	—	—	—	—	—
	MW-71-20211805	5/18/2021	0.0500	—	—	—	—	—	—
	MW-71-20211708	8/17/2021	0.237	—	—	—	—	—	—
	MW-71-20211611	11/16/2021	0.0150	—	—	—	—	—	—
MW-72	MW-72-20211602	2/16/2021	<0.00100	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-72-20212105	5/21/2021	<0.0400	<0.0400	<0.100	<0.0400	<0.0300	<0.0300	<0.0400
	MW-72-20212608	8/26/2021	<0.0400	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-72-20211711	11/17/2021	<0.0400	<0.0400	<0.100 J*	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-72-20213011	11/30/2021	<0.0400	<0.0400	<0.100	<0.0400	<0.0300	<0.0300	<0.0400
MW-73	MW-73-20212202	2/22/2021	<0.00100	—	—	—	—	—	—
	MW-73-20212005	5/20/2021	0.00700 J	—	—	—	—	—	—
	MW-73-20212708	8/27/2021	<0.00100	—	—	—	—	—	—
	MW-73-20212911	11/29/2021	<0.00100	—	—	—	—	—	—
MW-74	MW-74-20212202	2/22/2021	<0.00100	—	—	—	—	—	—
	MW-74-20212005	5/20/2021	<0.00100	—	—	—	—	—	—
	MW-74-20210209	9/2/2021	<0.00100	—	—	—	—	—	—
	MW-74-20212411	11/24/2021	<0.00100	—	—	—	—	—	—
MW-75	MW-75-20211802	2/18/2021	<0.0400	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-75-20212405	5/24/2021	<0.0400	<0.0400	<0.100	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-101-20213108 (DUP)	8/31/2021	<0.0400	<0.0400	<0.100 J*	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-75-20213108	8/31/2021	<0.0400	<0.0400	<0.100 J*	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
	MW-75-20211211	11/12/2021	<0.0400	<0.0400	<0.100 J*	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*
MW-76	MW-100-20211002 (DUP)	2/10/2021	<0.00100	<0.0400 J*	<0.200	<0.0400	<0.0300	<0.0300	<0.0400
	MW-76-20211002	2/10/2021	<0.00100	<0.0400 J*	<0.100	<0.0400	<0.0300	<0.0300	<0.0400
	MW-76-20211305	5/13/2021	<0.00100	<0.0400	<0.100	<0.0400	<0.0300	<0.0300	<0.0400
	MW-76-20211708	8/17/2021	<0.00100	<0.0400	<0.100	<0.0400	<0.0300	<0.0300	<0.0400
	MW-76-20211811	11/18/2021	<0.00100	<0.0400	<0.100 J*	<0.0400 J*	<0.0300	<0.0300	<0.0400 J*

Table 28E: Other Semivolatile Organic Compounds in Groundwater

			Other SVOCs (µg/L) SW8270E						
			Carbazole	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	N-Nitrosodi-N-Propylamine
			NA	0.01	1	0.02	110	100	0.058
Sample Location	Sample Name	Sample Date		(0.2)		(0.2)			(0.2)
Equipment Blank Samples	EB-2-20211102	2/11/2021	<0.00100	—	—	—	—	—	—
	EB-1-20211705	5/17/2021	<0.00100	—	—	—	—	—	—
	EB-2-20212505	5/25/2021	<0.00100	—	—	—	—	—	—
	EB-1-20212008	8/20/2021	0.00400 J	—	—	—	—	—	—
	EB-2-20212508	8/25/2021	<0.00100	—	—	—	—	—	—
	EB-1-20211011	11/10/2021	<0.0100 B*	—	—	—	—	—	—
	EB-2-20211611	11/16/2021	<0.00100	—	—	—	—	—	—
	EB-3-20212211	11/22/2021	<0.00100	—	—	—	—	—	—

NOTES

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

< Analyte was not detected; reported as less than the detection limit (<DL).

J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.

B* Result is included in the same preparatory batch as a blank detection for the associated analyte. Result is considered non-detect. Flag applied by Shannon & Wilson (*).

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

DUP = field duplicate; µg/L = micrograms per liter; SVOC = semivolatile organic compound

Table 29: Halogenated Volatile Organic Compounds in Groundwater

			Halogenated Volatile Organic Compounds (µg/L)						
			SW8260D (VOC)						SW8260D-SIM
Sample Location	Sample Name	Sample Date	1,1-Dichloroethene 130	Cis-1,2-Dichloroethene 183	Tetrachloroethene 2.9	Trans-1,2-Dichloroethene 77	Trichloroethene 0.7	Vinyl Chloride 0.18 (0.2)	Vinyl Chloride 0.18 (0.2)
MW-3	MW-3-20211902	2/19/2021	<0.0800	<0.0800 J*	<0.0900	<0.0700	<0.0700 J*	<0.0800	<0.00501
	MW-3-20212805	5/28/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-3-20213008	8/30/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501 J*
	MW-3-20212411	11/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-4	MW-4-20211902	2/19/2021	—	—	—	—	—	—	<0.00501
MW-6	MW-6-20212502	2/25/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-6-20211305	5/13/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-6-20210209	9/2/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-6-20212911	11/29/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-10R	MW-10R-20211902	2/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-10R-20212505	5/25/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-10R-20213108	8/31/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-10R-20212311	11/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-14	MW-14-20211902	2/19/2021	<0.0800	<0.0800 J*	<0.0900	<0.0700	<0.0700 J*	<0.0800	<0.00501
	MW-14-20211405	5/14/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-14-20212608	8/26/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0167 J
	MW-14-20212311	11/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0207
MW-15	MW-15-20211902	2/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-15-20211405	5/14/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-100-20212008 (DUP)	8/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-15-20212008	8/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-15-20211911	11/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-23	MW-23-20211202	2/12/2021	<0.0800	0.830	1.31	<0.0700	0.340	<0.0800	—
	MW-23-20211405	5/14/2021	<0.0800	0.860	0.620	<0.0700	0.260	<0.0800	—
	MW-23-20212508	8/25/2021	<0.0800	1.08	1.21	<0.0700	0.400	<0.0800	0.0292
	MW-23-20211911	11/19/2021	<0.0800	0.710	2.67	<0.0700	0.640	<0.0800	<0.00501
MW-24	MW-24-20211805	5/18/2021	<0.0800	0.0800 J	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-24-20212508	8/25/2021	<0.0800	0.0900 J	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-100-20210112 (DUP)	12/1/2021	<0.0800	0.0900 J	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-24-20210112	12/1/2021	<0.0800	0.0900 J	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501

Table 29: Halogenated Volatile Organic Compounds in Groundwater

			Halogenated Volatile Organic Compounds (µg/L)						
			SW8260D (VOC)						SW8260D-SIM
Sample Location	Sample Name	Sample Date	1,1-Dichloroethene 130	Cis-1,2-Dichloroethene 183	Tetrachloroethene 2.9	Trans-1,2-Dichloroethene 77	Trichloroethene 0.7	Vinyl Chloride 0.18 (0.2)	Vinyl Chloride 0.18 (0.2)
MW-25	MW-25-20211102	2/11/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-25-20211805	5/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-25-20212408	8/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.00523 J
	MW-25-20211011	11/10/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-30	MW-30-20211802	2/18/2021	<0.0800	<0.0800 J*	<0.0900	<0.0700	<0.0700 J*	<0.0800	<0.00501
	MW-30-20211905	5/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-30-20212008	8/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-30-20211211	11/12/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-31	MW-31-20212402	2/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0250
	MW-31-20211805	5/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-31-20212708	8/27/2021	<0.0800 J*	<0.0800 J*	<0.0900 J*	<0.0700 J*	<0.0700 J*	<0.0800 J*	0.0633 JL*
	MW-31-20211811	11/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0477M
MW-36	MW-36-20212202	2/22/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-36-20211705	5/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-36-20211808	8/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-36-20211211	11/12/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-37	MW-102-20212302 (DUP)	2/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-37-20212302	2/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-37-20212105	5/21/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-37-20210209	9/2/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.0200 B*
	MW-37-20210312	12/3/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-39	MW-39-20212402	2/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-39-20212805	5/28/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-39-20211908	8/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-39-20213011	11/30/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-40	MW-40-20212502	2/25/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0523
	MW-40-20212005	5/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.390**	—
	MW-40-20210109	9/1/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.340**	—
	MW-102-20211111 (DUP)	11/11/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.240 J***	—
	MW-40-20211111	11/11/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	0.100 J*	—

Table 29: Halogenated Volatile Organic Compounds in Groundwater

			Halogenated Volatile Organic Compounds (µg/L)						
			SW8260D (VOC)						SW8260D-SIM
Sample Location	Sample Name	Sample Date	1,1-Dichloroethene 130	Cis-1,2-Dichloroethene 183	Tetrachloroethene 2.9	Trans-1,2-Dichloroethene 77	Trichloroethene 0.7	Vinyl Chloride 0.18 (0.2)	Vinyl Chloride 0.18 (0.2)
MW-41	MW-41-20212502	2/25/2021	<0.0800	0.120 J	<0.0900	<0.0700	<0.0700	**0.500**	**0.330**
	MW-41-20212005	5/20/2021	<0.0800	0.130 J	<0.0900	<0.0700	<0.0700	**0.510**	—
	MW-41-20210109	9/1/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.510**	—
	MW-41-20211111	11/11/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.410**	—
MW-42	MW-42-20212302	2/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-42-20212405	5/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-42-20211808	8/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-42-20212911	11/29/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-43	MW-43-20211702	2/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.440**	**0.248**
	MW-43-20212405	5/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.430**	—
	MW-43-20211908	8/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.250**	—
	MW-43-20211611	11/16/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.280**	—
MW-44	MW-44-20212302	2/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-44-20212405	5/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-44-20212008	8/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-44-20211611	11/16/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-45	MW-45-20212402	2/24/2021	<0.0800	0.0900 J	<0.0900	<0.0700	<0.0700	**0.310**	0.106
	MW-45-20211805	5/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-45-20212708	8/27/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0596 J*
	MW-45-20211811	11/18/2021	<0.0800	0.120 J	<0.0900	<0.0700	<0.0700	0.100 J	—
MW-46	MW-46-20212402	2/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0311
	MW-46-20211405	5/14/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-46-20211708	8/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	0.110 J	—
	MW-46-20212211	11/22/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	0.120 J	—
MW-47	MW-47-20212402	2/24/2021	0.460	0.140 J	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-47-20212705	5/27/2021	<0.0800	0.110 J	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-47-20212708	8/27/2021	0.140 J	0.110 J	<0.0900	<0.0700	<0.0700	<0.0800	0.0124 J*
	MW-47-20211911	11/19/2021	0.360	0.0900 J	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-48	MW-48-20211805	5/18/2021	—	—	—	<0.0700	—	—	—
MW-49	MW-49-20211202	2/11/2021	<0.0800	1.65	<0.0900	0.190 J	**2.99**	<0.0800	—
	MW-49-20211905	5/19/2021	<0.0800	4.86	<0.0900	0.470	**2.34**	<0.0800	—
	MW-49-20212508	8/25/2021	<0.0800	4.24	<0.0900	0.160 J	**1.26**	<0.0800	0.0270
	MW-49-20210212	12/2/2021	<0.0800	0.800	0.140 J	<0.0700	**6.54**	<0.0800	<0.00501

Table 29: Halogenated Volatile Organic Compounds in Groundwater

			Halogenated Volatile Organic Compounds (µg/L)						
			SW8260D (VOC)						SW8260D-SIM
			1,1-Dichloroethene	Cis-1,2-Dichloroethene	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Vinyl Chloride
			130	183	2.9	77	0.7	0.18	0.18
Sample Location	Sample Name	Sample Date						(0.2)	(0.2)
MW-50	MW-50-20211202	2/12/2021	<0.0800	<0.0800	<0.0900	0.0800 J	<0.0700	**1.45**	—
	MW-50-20212105	5/21/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**2.96**	—
	MW-50-20212608	8/26/2021	<0.0800	0.0900 J	<0.0900	<0.0700	<0.0700	**2.69**	—
	MW-103-20210911 (DUP)	11/9/2021	<0.0800	0.0900 J	<0.0900	<0.0700	<0.0700	**2.03**	—
	MW-50-20210911	11/9/2021	<0.0800	0.0900 J	<0.0900	<0.0700	<0.0700	**2.46**	—
MW-51	MW-51-20211002	2/10/2021	<0.0800	0.460	<0.0900	<0.0700	<0.0700	**0.840**	**0.569**
	MW-51-20212105	5/21/2021	<0.0800	0.420	<0.0900	<0.0700	<0.0700	**0.560**	—
	MW-51-20212408	8/24/2021	<0.0800	0.630	<0.0900	<0.0700	0.320	0.160 J	—
	MW-51-20210212	12/2/2021	<0.0800	0.380	<0.0900	<0.0700	<0.0700	**0.400**	—
MW-52	MW-52-20211202	2/12/2021	<0.0800	2.46	<0.0900	0.160 J	<0.0700	**0.740**	—
	MW-52-20212605	5/26/2021	<0.0800	2.43	<0.0900	0.110 J	<0.0700	**0.410**	—
	MW-52-20212708	8/27/2021	<0.0800	2.03	<0.0900	<0.0700	<0.0700	**0.320**	—
	MW-52-20210112	12/1/2021	<0.0800	2.32	<0.0900	<0.0700	<0.0700	**0.700**	—
MW-53	MW-101-20212202 (DUP)	2/22/2021	<0.0800	0.210	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-53-20212202	2/22/2021	<0.0800	0.220	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-53-20212505	5/25/2021	<0.0800	0.110 J	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-53-20210109	9/1/2021	<0.0800	0.130 J	<0.0900	<0.0700	<0.0700	<0.0800	<0.200 B*
	MW-53-20210112	12/1/2021	<0.0800	0.150 J	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-54	MW-54-20211802	2/18/2021	0.230	<0.0800 J*	<0.0900	<0.0700	<0.0700 J*	<0.0800	<0.00501
	MW-54-20212405	5/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-54-20212008	8/20/2021	0.140 J	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-54-20210312	12/3/2021	0.150 J	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-55	MW-55-20211102	2/11/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-55-20211405	5/14/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-55-20212408	8/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-55-20211811	11/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-56	MW-56-20211002	2/10/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-56-20211705	5/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-56-20213008	8/30/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501 J*
	MW-56-20212211	11/22/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501

Table 29: Halogenated Volatile Organic Compounds in Groundwater

			Halogenated Volatile Organic Compounds (µg/L)						
			SW8260D (VOC)						SW8260D-SIM
			1,1-Dichloroethene	Cis-1,2-Dichloroethene	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Vinyl Chloride
			130	183	2.9	77	0.7	0.18 (0.2)	0.18 (0.2)
Sample Location	Sample Name	Sample Date							
MW-57	MW-57-20211802	2/18/2021	<0.0800	<0.0800 J*	<0.0900	<0.0700	<0.0700 J*	<0.0800	<0.00501
	MW-101-20211905 (DUP)	5/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-57-20211905	5/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-57-20213108	8/31/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.00640 J
	MW-57-20211111	11/11/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-58	MW-58-20211802	2/18/2021	<0.0800	<0.0800 J*	<0.0900	<0.0700	<0.0700 J*	<0.0800	<0.00501
	MW-58-20211705	5/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-58-20212508	8/25/2021	<0.380	<0.410	<0.0900	<0.0700	<0.350	<0.410	<0.00501
	MW-58-20211211	11/12/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-59	MW-59-20211202	2/12/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-59-20211805	5/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-59-20212508	8/25/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-59-20213011	11/30/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-60	MW-60-20211702	2/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0279
	MW-60-20211705	5/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-60-20210109	9/1/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.200 B*
	MW-60-20211711	11/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0772M
MW-61	MW-61-20212202	2/22/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-61-20212105	5/21/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-61-20210209	9/2/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-61-20210112	12/1/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-62	MW-62-20211802	2/18/2021	<0.0800	<0.0800 J*	<0.0900	<0.0700	<0.0700 J*	<0.0800	<0.00501
	MW-103-20211905 (DUP)	5/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-62-20211905	5/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-62-20213108	8/31/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.00525 J
	MW-62-20211111	11/11/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-63	MW-103-20211702 (DUP)	2/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-63-20211702	2/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-63-20212005	5/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-63-20210109	9/1/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-63-20211611	11/16/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501

Table 29: Halogenated Volatile Organic Compounds in Groundwater

			Halogenated Volatile Organic Compounds (µg/L)						
			SW8260D (VOC)						SW8260D-SIM
			1,1-Dichloroethene	Cis-1,2-Dichloroethene	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Vinyl Chloride
			130	183	2.9	77	0.7	0.18	0.18
Sample Location	Sample Name	Sample Date						(0.2)	(0.2)
MW-64	MW-64-20211602	2/16/2021	<0.0800	<0.0800	<0.0900	—	<0.0700	**0.390**	0.144
	MW-64-20212005	5/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.220**	—
	MW-64-20210109	9/1/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.240**	—
	MW-64-20211611	11/16/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.250**	—
MW-65	MW-65-20212502	2/25/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-65-20211305	5/13/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-65-20210209	9/2/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-65-20210911	11/9/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-66	MW-66-20211002	2/10/2021	<0.0800	<0.0800	<0.0900	0.0900 JH*	<0.0700	<0.0800	<0.00501
	MW-66-20211305	5/13/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-102-20212308 (DUP)	8/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-66-20212308	8/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-66-20211011	11/10/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-67	MW-67-20212302	2/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	0.180 J	<0.0800	<0.00501
	MW-67-20212405	5/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	0.180 J	<0.0800	—
	MW-67-20211808	8/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	0.120 J	<0.0800	0.0162 J
	MW-67-20210112	12/1/2021	<0.0800	<0.0800	<0.0900	<0.0700	0.220	<0.0800	<0.00501
MW-68	MW-68-20211602	2/16/2021	<0.0800	<0.0800	<0.0900	—	0.230	**0.620**	**0.334**
	MW-68-20211708	8/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.380**	—
	MW-68-20211711	11/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	0.180 J	<0.0800	0.0423M
MW-69	MW-69-20211102	2/11/2021	<0.0800	0.130 J	<0.0900	<0.0700	0.210	**0.890**	—
	MW-69-20212605	5/26/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	**0.210**	—
	MW-69-20212408	8/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	0.0900 J	—
	MW-69-20210212	12/2/2021	<0.0800	0.0900 J	<0.0900	<0.0700	0.110 J	0.140 J	—
MW-70	MW-70-20211102	2/11/2021	<0.0800	1.02	<0.0900	0.260	<0.0700	**0.540**	—
	MW-70-20212605	5/26/2021	<0.0800	0.480	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-70-20212308	8/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	0.0800 J	—
	MW-70-20213011	11/30/2021	<0.0800	0.450	0.730	<0.0700	**9.38**	<0.0800	<0.00501
MW-71	MW-71-20211702	2/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-71-20211805	5/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-71-20211708	8/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0407M
	MW-71-20211611	11/16/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501

Table 29: Halogenated Volatile Organic Compounds in Groundwater

			Halogenated Volatile Organic Compounds (µg/L)						
			SW8260D (VOC)						SW8260D-SIM
Sample Location	Sample Name	Sample Date	1,1-Dichloroethene 130	Cis-1,2-Dichloroethene 183	Tetrachloroethene 2.9	Trans-1,2-Dichloroethene 77	Trichloroethene 0.7	Vinyl Chloride 0.18 (0.2)	Vinyl Chloride 0.18 (0.2)
MW-72	MW-72-20211602	2/16/2021	<0.0800	<0.0800	<0.0900	—	<0.0700	<0.0800	<0.00501
	MW-72-20212105	5/21/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-72-20212608	8/26/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-72-20211711	11/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-73	MW-73-20212202	2/22/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-73-20212005	5/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-73-20212708	8/27/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0139 J*
	MW-73-20212911	11/29/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-74	MW-74-20212202	2/22/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-74-20212005	5/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-74-20210209	9/2/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-74-20212411	11/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
MW-75	MW-75-20211802	2/18/2021	<0.0800	<0.0800 J*	<0.0900	<0.0700	<0.0700 J*	<0.0800	<0.00501
	MW-75-20212405	5/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-101-20213108 (DUP)	8/31/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0740
	MW-75-20213108	8/31/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0601
	MW-75-20211211	11/12/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0241
MW-76	MW-100-20211002 (DUP)	2/10/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-76-20211002	2/10/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-76-20211305	5/13/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	MW-76-20211708	8/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	MW-76-20211811	11/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501

Table 29: Halogenated Volatile Organic Compounds in Groundwater

			Halogenated Volatile Organic Compounds (µg/L)						
			SW8260D (VOC)						SW8260D-SIM
			1,1-Dichloroethene	Cis-1,2-Dichloroethene	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Vinyl Chloride
			130	183	2.9	77	0.7	0.18	0.18
Sample Location	Sample Name	Sample Date						(0.2)	(0.2)
Trip Blank Samples	TB-1-20211002	2/10/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-2-20211102	2/11/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-5-20211702	2/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-6-20211802	2/18/2021	<0.0800	<0.0800 J*	<0.0900	<0.0700	<0.0700 J*	<0.0800	—
	TB-7-20211902	2/19/2021	<0.0800	<0.0800 J*	<0.0900	<0.0700	<0.0700 J*	<0.0800	—
	TB-8-20212202	2/22/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-9-20212302	2/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-10-20212402	2/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-11-20212502	2/25/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-1-20211305	5/13/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-2-20211405	5/14/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-3-20211705	5/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-4-20211805	5/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-5-20211905	5/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-6-20212005	5/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-7-20212105	5/21/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-8-20212405	5/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-9-20212505	5/25/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-10-20212605	5/26/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-10-20212705	5/27/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-11-20212805	5/28/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	TB-2-20211808	8/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-4-20212008	8/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-6-20212408	8/24/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-7-20212508	8/25/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-8-20212608	8/26/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-9-20212708	8/27/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501 J*
	TB-10-20213008	8/30/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	0.0264 J*
	TB-11-20213108	8/31/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-12-20210109	9/1/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-13-20210209	9/2/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-1-20210911	11/9/2021	<0.0800 J*	<0.0800 J*	<0.0900 J*	<0.0700 J*	<0.0700 J*	<0.0800 J*	<0.00501 J*

Table 29: Halogenated Volatile Organic Compounds in Groundwater

			Halogenated Volatile Organic Compounds (µg/L)						
			SW8260D (VOC)						SW8260D-SIM
Sample Location	Sample Name	Sample Date	1,1-Dichloroethene 130	Cis-1,2-Dichloroethene 183	Tetrachloroethene 2.9	Trans-1,2-Dichloroethene 77	Trichloroethene 0.7	Vinyl Chloride 0.18 (0.2)	Vinyl Chloride 0.18 (0.2)
Trip Blank Samples	TB-2-20211011	11/10/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501 J*
	TB-3-20211111	11/11/2021	<0.0800 J*	<0.0800 J*	<0.0900 J*	<0.0700 J*	<0.0700 J*	<0.0800 J*	<0.00501 J*
	TB-4-20211211	11/12/2021	<0.0800 J*	<0.0800 J*	<0.0900 J*	<0.0700 J*	<0.0700 J*	<0.0800 J*	<0.00501 J*
	TB-5-20211611	11/16/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501 J*
	TB-6-20211711	11/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501 J*
	TB-7-20211811	11/18/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501 J*
	TB-8-20211911	11/19/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501 J*
	TB-9-20212211	11/22/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-10-20212311	11/23/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-11-20212411	11/24/2021	<0.0800 J*	<0.0800 J*	<0.0900 J*	<0.0700 J*	<0.0700 J*	<0.0800 J*	<0.00501 J*
	TB-12-20212911	11/29/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-13-20213011	11/30/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-14-20210112	12/1/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-15-20210212	12/2/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	TB-16-20210312	12/3/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
Equipment Blank Samples	EB-2-20211102	2/11/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	EB-1-20211705	5/17/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	EB-2-20212505	5/25/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	EB-1-20212008	8/20/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	EB-2-20212508	8/25/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	—
	EB-1-20211011	11/10/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501
	EB-2-20211611	11/16/2021	<0.0800	<0.0800	<0.0900	<0.0700	<0.0700	<0.0800	<0.00501

NOTES:
Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
E Reported result exceeded the instrument's upper calibration limit. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*).
DUP = field duplicate; µg/L = micrograms per liter

Table 30A: Metals in Groundwater

			Metals (µg/L) SW6020/6020B/SM 3500-Cr B-09															
			Arsenic		Barium		Cadmium		Chromium		Chromium, Hexavalent	Cobalt		Copper		Iron	
			8		200		1.19		100		0.36	4.8		3.1		32000	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-4	MW-4-20211902	2/19/2021	2.37	2.08	—	—	0.0330 J	0.0330 J	—	—	—	—	—	**3.20**	2.79	—	—
	MW-4-20212605	5/26/2021	5.82	3.09	—	—	0.0560 J	0.0310 J	—	—	—	—	—	2.55	1.03	—	—
	MW-4-20213008	8/30/2021	3.04	1.43	—	—	<0.0300	<0.0300	—	—	—	—	—	1.18	<0.173	—	—
	MW-4-20212411	11/24/2021	3.21 D	2.26	—	—	0.104	0.0400 J	—	—	—	—	—	**4.88**	**3.36**	—	—
MW-6	MW-6-20212502	2/25/2021	**9.37**	2.82	—	—	—	—	—	—	—	—	—	1.23	0.383 J	—	—
	MW-6-20211305	5/13/2021	**32.3**	**10.2**	—	—	—	—	—	—	—	—	—	1.06	0.193 J	—	—
	MW-6-20210209	9/2/2021	**44.7**	**28.1**	—	—	—	—	—	—	—	—	—	1.91	0.283 J	—	—
	MW-6-20212911	11/29/2021	**14.8**	**8.55**	—	—	—	—	—	—	—	—	—	2.46	0.917	—	—
MW-7	MW-7-20212302	2/23/2021	—	—	—	—	—	—	<0.564 B*	0.436 J	<13.0	—	—	—	—	—	—
	MW-7-20212705	5/27/2021	—	—	—	—	—	—	0.833	<0.260	<13.0	—	—	—	—	—	—
	MW-7-20212608	8/26/2021	—	—	—	—	—	—	<0.260	<0.260	<13.0	—	—	—	—	—	—
	MW-7-20211911	11/19/2021	—	—	—	—	—	—	<0.520	—	<13.0	—	—	—	—	—	—
MW-8	MW-8-20211602	2/16/2021	1.03	0.389	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-8-20212605	5/26/2021	**13.4**	**12.0 D**	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-8-20213008	8/31/2021	**18.8**	**16.2**	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-8-20211711	11/17/2021	**26.5**	**25.6**	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-9	MW-9-20211802	2/18/2021	2.48	0.437	—	—	0.543	0.244	—	—	—	—	—	1.72	0.512	—	—
	MW-9-20211905	5/19/2021	6.79	0.932	—	—	0.448	0.275	—	—	—	—	—	1.77	0.276 J	—	—
	MW-9-20213108	8/31/2021	2.80	0.417	—	—	0.226	0.115	—	—	—	—	—	1.91	**6.39**	—	—
	MW-9-20211011	11/10/2021	1.81	0.578	—	—	0.183	0.110	—	—	—	—	—	2.21	1.07	—	—
MW-10R	MW-10R-20211902	2/19/2021	0.885	0.528	3.15	2.41	<0.0300	<0.0300	0.478 J, D	0.318 J, D	—	0.396	0.306	2.28	1.78	1540 D	885 D
	MW-10R-20212505	5/25/2021	0.651	0.504	4.98	3.83	<0.0300	<0.0300	0.404 J	<0.260	—	0.306	0.301	0.976	0.466 J	2960	2610
	MW-10R-20213108	8/31/2021	0.697	0.413	5.84	5.53	<0.0300	<0.0300	<0.260	<0.260	—	0.626	0.481	1.06	0.900	538	18.4 J
	MW-10R-20212311	11/23/2021	0.861	0.675	2.36	2.08	0.0370 J	<0.0300	<0.260	<0.260	—	0.467	0.388	1.72	1.45	832	570
MW-11	MW-11-20211902	2/19/2021	3.48	1.78	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-11-20212505	5/25/2021	7.06	5.75	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-11-20212608	8/26/2021	7.98	5.89	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-11-20212311	11/23/2021	6.14	5.41	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-14	MW-14-20211902	2/19/2021	0.492	0.265	—	—	<0.0300	<0.0300	0.280 J, D	<0.260	—	0.486	0.411	1.59	1.22	—	—
	MW-14-20211405	5/14/2021	4.71	3.61	—	—	<0.0300	<0.0300	0.834 J, D	0.740 J, D	—	0.492	0.461	0.886	0.402 J	—	—
	MW-14-20212608	8/26/2021	**8.10**	3.72	—	—	<0.0300	<0.0300	0.801	0.436 J	—	0.823	0.796	0.307 J	<0.173	—	—
	MW-14-20212311	11/23/2021	4.19	2.78	—	—	0.0360 J	<0.0300	0.664	0.375 J	—	0.651	0.566	1.12	0.702	—	—

Table 30A: Metals in Groundwater

			Metals (µg/L) SW6020/6020B/SM 3500-Cr B-09															
			Arsenic		Barium		Cadmium		Chromium		Chromium, Hexavalent	Cobalt		Copper		Iron	
			8		200		1.19		100		0.36	4.8		3.1		32000	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-15	MW-15-20211902	2/19/2021	—	—	—	—	—	—	—	—	—	0.351	0.294	—	—	—	—
	MW-15-20211405	5/14/2021	—	—	—	—	—	—	—	—	—	1.13	0.194 J	—	—	—	—
	MW-100-20212008 (DUP)	8/20/2021	—	—	—	—	—	—	—	—	—	**5.13**	0.188 J	—	—	—	—
	MW-15-20212008	8/20/2021	—	—	—	—	—	—	—	—	—	**6.59**	0.188 J	—	—	—	—
	MW-15-20211911	11/19/2021	—	—	1.21	—	—	—	—	—	—	—	—	—	—	—	—
MW-23	MW-23-20211202	2/12/2021	**18.3**	6.29	—	—	—	—	0.468 J, D	<0.260	<13.0	—	—	—	—	—	—
	MW-23-20211405	5/14/2021	**25.7**	5.69	—	—	—	—	<2.60	<2.60	<13.0	—	—	—	—	—	—
	MW-23-20212508	8/25/2021	**23.0**	**14.5**	—	—	—	—	0.601	0.444 J	R*	—	—	—	—	—	—
	MW-23-20211911	11/19/2021	**13.3 D**	—	—	—	—	—	<1.30	—	R*	—	—	—	—	—	—
MW-24	MW-24-20211102	2/11/2021	**34.6**	**8.43**	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-24-20211805	5/18/2021	**33.4 D**	**8.09 D**	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-24-20212508	8/25/2021	**43.3 D**	**9.22 D**	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-100-20210112 (DUP)	12/1/2021	**36.9**	4.45	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-24-20210112	12/1/2021	**35.3**	4.56	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-25	MW-25-20211102	2/11/2021	**131**	**91.6**	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-25-20211805	5/18/2021	**15.5 D**	**9.48 D**	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-25-20212408	8/24/2021	**20.1**	1.94	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-25-20211011	11/10/2021	**9.96**	5.22	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-32	MW-32-20212202	2/22/2021	0.991	0.504	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-102-20212405	5/24/2021	**28.9**	3.79	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-32-20212405	5/24/2021	**28.2**	3.76	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-32-20212608	8/26/2021	**26.8**	2.42 D	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-101-20210312 (DUP)	12/3/2021	2.89	1.24	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-32-20210312	12/3/2021	2.61	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-36	MW-36-20212202	2/22/2021	**37.0**	**14.8**	—	—	<0.0300	<0.0300	1.44 D	<1.00 B*	—	0.179 J	0.150 J	0.901	<0.340	—	—
	MW-36-20211705	5/17/2021	**43.1**	**18.3**	—	—	<0.0300	<0.0300	1.25	<5.20	—	0.145 J	0.134 J	0.388 J	<0.173	—	—
	MW-36-20211808	8/18/2021	**51.7**	**13.3**	—	—	<0.0300	<0.0300	1.31 D	0.430 J	—	0.151 J	0.128 J	0.183 J	<0.173	—	—
	MW-36-20211211	11/12/2021	**54.9**	**11.3**	—	—	<0.0300	<0.0300	1.11 D	0.269 J	—	0.182 J	0.132 J	0.253 J	<0.173	—	—
MW-37	MW-102-20212302 (DUP)	2/23/2021	0.264	0.251	—	—	—	—	—	—	—	—	—	1.19	0.875	—	—
	MW-37-20212302	2/23/2021	0.219	0.242	—	—	—	—	—	—	—	—	—	0.954	0.894	—	—
	MW-37-20212105	5/21/2021	1.99	2.28	—	—	—	—	—	—	—	—	—	**9.75**	**9.52**	—	—
	MW-37-20210209	9/2/2021	7.61	5.62	—	—	—	—	—	—	—	—	—	**3.85**	2.08	—	—
	MW-37-20210312	12/3/2021	0.307	0.250	—	—	—	—	—	—	—	—	—	1.36	0.968	—	—

Table 30A: Metals in Groundwater

			Metals (µg/L) SW6020/6020B/SM 3500-Cr B-09															
			Arsenic		Barium		Cadmium		Chromium		Chromium, Hexavalent	Cobalt		Copper		Iron	
			8		200		1.19		100		0.36	4.8		3.1		32000	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-39	MW-39-20212402	2/24/2021	2.24 D	1.18 D	—	—	—	—	13.7 D	9.54 D	<13.0 J*	—	—	—	—	—	—
	MW-39-20212805	5/28/2021	6.97 D	1.28	—	—	—	—	48.6 D	10.4	**16.0 D**	—	—	—	—	—	—
	MW-39-20211908	8/19/2021	2.48 D		—		—		14.9 D			—		—		—	
	MW-39-20212008	8/20/2021		1.81 J, D		—		—		11.8 JL*	**13.0 D**		—		—		—
	MW-39-20213011	11/30/2021	1.59	1.65	—	—	—	—	11.4	12.3	**13.0 D**	—	—	—	—	—	—
MW-40	MW-40-20212502	2/25/2021	6.44	1.99	—	—	0.0350 J	<0.0300	—	—	—	—	—	**4.59**	**3.68**	—	—
	MW-40-20212005	5/20/2021	**12.9**	0.961	—	—	<0.0300	<0.0300	—	—	—	—	—	0.987	<0.173	—	—
	MW-40-20210109	9/1/2021	**18.5**	5.07	—	—	<0.0300	<0.0300	—	—	—	—	—	0.796	<0.173	—	—
	MW-102-20211111 (DUP)	11/11/2021	**17.8**	6.52	—	—	<0.0300	<0.0300	—	—	—	—	—	3.01 J*	<0.173	—	—
	MW-40-20211111	11/11/2021	**16.9**	7.19	—	—	<0.0300	<0.0300	—	—	—	—	—	1.87 JH*	<0.173	—	—
MW-41	MW-41-20212502	2/25/2021	**52.2**	**28.7**	—	—	<0.0300	<0.0300	—	—	—	—	—	1.21	<0.340	—	—
	MW-41-20212005	5/20/2021	**43.9**	**18.6**	—	—	<0.0300	<0.0300	—	—	—	—	—	2.20	<0.173	—	—
	MW-41-20210109	9/1/2021	**60.6**	**34.0**	—	—	<0.0300	<0.0300	—	—	—	—	—	1.18	<0.173	—	—
	MW-41-20211111	11/11/2021	**73.8**	**36.2**	—	—	<0.0300	<0.0300	—	—	—	—	—	0.742	<0.173	—	—
MW-42	MW-42-20212302	2/23/2021	—	—	—	—	—	—	11.0 D	12.0 D	—	—	—	—	—	—	—
	MW-42-20212405	5/24/2021	—	—	—	—	—	—	10.5	5.29 D	—	—	—	—	—	—	—
	MW-42-20211808	8/18/2021	—	—	—	—	—	—	9.97 D	0.779	—	—	—	—	—	—	—
	MW-42-20212911	11/29/2021	—	—	—	—	—	—	12.5	12.3	—	—	—	—	—	—	—
MW-46	MW-46-20212402	2/24/2021	**26.1**	1.79	—	—	—	—	1.23	<0.145 B*	**<13.0**	—	—	<0.340	<0.340	—	—
	MW-46-20211405	5/14/2021	**19.9**	1.60	—	—	0.257 J	—	<2.60	<2.60	**<13.0**	—	—	0.378 J	<0.173	—	—
	MW-46-20211708	8/17/2021	**17.6**	7.28	—	—	—	—	<1.30	0.441 J	**<13.0 J***	—	—	<0.173	<0.173	—	—
	MW-46-20212211	11/22/2021	7.10	5.52	—	—	—	—	1.18	0.805	**13.0 D**	—	—	0.746	0.186 J	—	—
MW-47	MW-47-20212402	2/24/2021	—	—	—	—	—	—	0.258 J	<0.130	**<13.0**	—	—	—	—	—	—
	MW-47-20212705	5/27/2021	—	—	—	—	—	—	0.511	<0.260	**<13.0**	—	—	—	—	—	—
	MW-47-20212708	8/27/2021	—	—	—	—	—	—	<0.260	<0.260	**<13.0**	—	—	—	—	—	—
	MW-47-20211911	11/19/2021	—	—	—	—	—	—	<1.30	—	**<13.0**	—	—	—	—	—	—
MW-49	MW-49-20211202	2/11/2021	0.472	0.281	—	—	0.0380 J	<0.0300	—	—	—	—	—	0.846	0.663	—	—
	MW-49-20211905	5/19/2021	0.458	0.233	—	—	<0.0300	<0.0300	—	—	—	—	—	0.706	0.564	—	—
	MW-49-20212508	8/25/2021	2.79	0.349	—	—	0.105	<0.0300	—	—	—	—	—	1.32	0.671	—	—
	MW-49-20210212	12/2/2021	1.79	0.469	—	—	<0.0300	<0.0300	—	—	—	—	—	1.76	1.26	—	—
MW-50	MW-50-20212105	5/21/2021	—	—	—	—	<0.0300	<0.0300	—	—	—	—	—	—	—	—	—

Table 30A: Metals in Groundwater

			Metals (µg/L) SW6020/6020B/SM 3500-Cr B-09															
			Arsenic		Barium		Cadmium		Chromium		Chromium, Hexavalent	Cobalt		Copper		Iron	
			8		200		1.19		100		0.36	4.8		3.1		32000	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-53	MW-101-20212202 (DUP)	2/22/2021	1.40	0.826	3.62	2.42	<0.0300	<0.0300	0.570 J, D	<1.00 B*	—	0.142 J	0.148 J	<0.340	<0.340	4390 D	41.3 JH*
	MW-53-20212202	2/22/2021	1.41	0.845	3.75	2.42	<0.0300	<0.0300	0.618 J, D	<1.00 B*	—	0.151 J	0.149 J	<0.340	<0.340	4260 D	<40.0 B*
	MW-53-20212505	5/25/2021	0.393	0.335	2.82	2.40	<0.0300	<0.0300	0.306 J	<0.260	—	0.0940 J	0.101 J	<0.173	<0.173	3800	3720
	MW-53-20210109	9/1/2021	0.456	0.376	6.22	4.54	<0.0300	<0.0300	<0.260	<0.260	—	0.493	0.460	0.294 J	<0.173	3540	2980
	MW-53-20210112	12/1/2021	0.759	0.203	15.4	6.62	<0.0300	<0.0300	0.626	<0.260	—	0.221	0.0980 J	0.292 J	0.510	6880	187
MW-54	MW-54-20211802	2/18/2021	5.72	5.41	9.92	9.02	<0.0300	<0.0300	1.20 D	1.04 JH*	—	0.113 J	0.0790 J	1.64	0.991	73.7 D	<12.5
	MW-54-20212405	5/24/2021	4.04	3.88	10.3	9.55	<0.0300	<0.0300	0.417 J	<0.260	—	0.0840 J	0.0760 J	1.02	0.768	<18.2	<18.2
	MW-54-20212008	8/20/2021	3.38	3.05	17.1	17.6	<0.0300	<0.0300	<0.520	<0.260	—	0.0600 J	0.0500 J	1.04	0.860	<36.4	<18.2
	MW-54-20210312	12/3/2021	2.67	2.66	3.71	3.51	<0.0300	<0.0300	0.764	0.612	—	0.0290 J	0.0200 J*	1.42	1.05	23.5 J	<18.2
MW-55	MW-55-20211102	2/11/2021	0.417	0.362	2.07	1.82	<0.0300	<0.0300	0.219 J	<0.130	R*	0.339	0.329	0.466 J	<0.340	2480	1780
	MW-55-20211405	5/14/2021	1.62	0.272	4.15	1.06	<0.0300	<0.0300	<0.520	<0.260	<13.0	0.219	0.141 J	1.04	<0.173	7500 D	188
	MW-55-20212408	8/24/2021	3.08	0.634	5.17	0.206 J	<0.0300	<0.0300	0.407 J	<0.260	R*	0.260	0.147 J	1.67	0.194 J	15700	81.9
	MW-55-20211811	11/18/2021	0.775	0.422	4.64	3.22	<0.0300	<0.0300	<0.260	<0.260	<13.0	0.120 J	0.103 J	0.612	<0.173	5360	2000
MW-56	MW-56-20211002	2/10/2021	0.475	0.324	2.33	0.757	<0.0300	<0.0300	0.358 J, D	0.189 J	—	0.191 J	0.157 J	<0.340	<0.340	17800 D	13000
	MW-56-20211705	5/17/2021	0.676	0.341	3.10	0.249 J	<0.0300	<0.0300	0.438 J	<1.30	—	0.188 J	0.116 J	0.531	<0.173	26500 D	16300 D
	MW-56-20213008	8/30/2021	2.52	1.40	6.51	0.164 J	<0.0300	<0.0300	0.770	<0.260	—	0.284	0.162 J	0.971	<0.173	**34600 D**	14400
	MW-56-20212211	11/22/2021	0.553	0.509	<5.07 B*	0.312 J	<0.0300	<0.0300	0.461 J	0.261 J	—	0.111 J	0.0970 J	0.333 J	<0.173	19100	11800
MW-57	MW-57-20211802	2/18/2021	**14.3**	**9.24**	4.49	1.26	<0.0300	<0.0300	2.69 D	1.84 D	—	3.68	3.22	**13.9**	**3.89**	7610 D	2700 D
	MW-101-20211905 (DUP)	5/19/2021	**13.2**	**12.1**	11.8	3.20	<0.0300	<0.0300	2.20	1.20	—	2.92	2.40	**6.37**	0.932 J*	12500	9100
	MW-57-20211905	5/19/2021	**13.7**	**11.1**	12.7	2.80	<0.0300	<0.0300	2.29	1.15	—	3.13	2.34	**6.83**	1.48 J*	12600	8220
	MW-57-20213108	8/31/2021	**8.87**	3.70	10.9	0.874	<0.0300	<0.0300	1.45	0.845	—	4.29	3.94	**9.04**	0.200 J	23400	18300
	MW-57-20211111	11/11/2021	6.66	4.85	6.27	0.266 J	<0.0300	<0.0300	1.12	0.679	—	2.34	2.05	2.24	<0.173	17100	11200
MW-58	MW-58-20211802	2/18/2021	2.40	0.987	13.1	12.6	0.101	0.121	0.608 J, D	<0.260	—	**16.8**	**17.4**	2.98	2.35	1440 D	<40.0 B*
	MW-58-20211705	5/17/2021	**43.2**	**26.3**	22.4	5.19	<0.0300	<0.0300	1.04	<1.30	—	3.74	3.32	0.764	<0.173	**55700 D**	**42600 D**
	MW-58-20212508	8/25/2021	**64.3 D**	**16.8**	31.6 D	5.72	<0.0600	<0.0300	0.904 J, D	<0.260	—	1.28 D	1.06	0.380 J, D	<0.173	**92700 D**	**56600 D**
	MW-58-20211211	11/12/2021	**68.2**	6.95	28.8	3.30	<0.0300	<0.0300	1.04 D	<0.260 J*	—	0.642	0.454	0.255 J	<0.173	**91000 D**	**41700 D**
MW-59	MW-59-20211202	2/12/2021	6.09	5.10	10.6	8.99	<0.0300	<0.0300	<0.650	0.205 J	—	4.16	3.98	0.970	<0.340	11900 D	9410
	MW-59-20211805	5/18/2021	0.900	0.421	7.55	6.02	<0.0300	<0.0300	0.354 J	<0.260	—	1.53	1.32	1.23	0.683	850	204
	MW-59-20212508	8/25/2021	0.942	0.556	5.49	4.82	0.0310 J	<0.0300	<0.260	<0.260	—	1.32	1.13	0.914	0.522	1130	763
	MW-59-20213011	11/30/2021	2.96	1.93	8.01	5.95	0.0420 J	0.0490 J	0.561	<0.260	—	3.42	—	1.87	0.541	5010	3940
MW-60	MW-60-20211702	2/17/2021	**18.5 D**	2.99	21.5 D	1.54	<0.0600	<0.0300	1.57 D	0.410 J, D	—	1.86 D	1.22	2.10 D	<0.340	30700 D	4250 D
	MW-60-20211705	5/17/2021	**16.5**	**10.8**	17.4	0.766	<0.0300	<0.0300	1.30	<1.30	—	0.550	0.505	0.460 J	<0.173	**53100 D**	**35100 D**
	MW-60-20210109	9/1/2021	**16.1**	**12.8**	28.3	0.999	<0.0300	<0.0300	2.56	0.624	—	1.14	0.289	**5.05**	<0.173	**54100 D**	**33800 D**
	MW-60-20211711	11/17/2021	**20.8 D**	**14.3**	12.4 D	0.745	<0.0600	<0.0300	1.40 D	0.864 J, D	—	0.458 D	0.290	1.89 D	<0.173	26200 D	16300 D

Table 30A: Metals in Groundwater

			Metals (µg/L) SW6020/6020B/SM 3500-Cr B-09															
			Arsenic		Barium		Cadmium		Chromium		Chromium, Hexavalent	Cobalt		Copper		Iron	
			8		200		1.19		100		0.36	4.8		3.1		32000	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-61	MW-61-20212202	2/22/2021	1.36	1.28	6.86	6.34	0.0990 J	0.0690 J	0.540	<0.357 B*	—	0.477	0.449	**6.47**	**6.10**	81.9	51.9 JH*
	MW-61-20212105	5/21/2021	1.21	1.06	8.57	7.52	0.0570 J	0.0500 J	0.637	0.420 J	—	2.47	2.40	**6.85**	**6.16**	278	111 D
	MW-61-20210209	9/2/2021	**9.39**	7.16	17.6	12.5	0.0320 J	<0.0300	1.28	0.774	—	**6.48**	**5.72**	**4.41**	0.840	9850	7780
	MW-61-20210112	12/1/2021	2.86	1.55	7.26	5.04	0.0340 J	<0.0300	0.595	0.360 J	—	1.38	1.22	**5.12**	1.44	1730	458
MW-62	MW-62-20211802	2/18/2021	5.53	2.16	10.6	7.06	<0.0300	<0.0300	1.04 D	<1.00 B*	—	**5.47**	**5.15**	**4.94**	2.76	3500 D	604 D
	MW-103-20211905 (DUP)	5/19/2021	1.41	1.39	6.70	5.26	<0.0300	<0.0300	<1.30	<1.30	—	3.89	3.32	2.33	1.85	848 J*	153 J, D
	MW-62-20211905	5/19/2021	2.09	1.79	7.40	5.37	<0.0300	<0.0300	<1.30	<1.30	—	3.93	3.42	2.45	1.99	1600 J*	135 J, D
	MW-62-20213108	8/31/2021	1.10	0.385	13.1	10.1	<0.0300	<0.0300	0.810	<0.260	—	**5.12**	4.59	**3.45**	1.59	1020	49.5
	MW-62-20211111	11/11/2021	2.27	0.433	14.1	11.0	0.0310 J	0.0670 J	0.946	0.293 J	—	**6.66**	**5.98**	**4.80**	2.08	2670	42.9
MW-63	MW-103-20211702 (DUP)	2/17/2021	2.98 J*	1.16	4.80 J*	4.06	0.0340 J*	0.0380 J*	0.162 J*	<0.130	—	0.268 J*	0.232	2.05 J*	1.66	740 J*	91.1 J*
	MW-63-20211702	2/17/2021	**28.0 J***	1.19	14.4 J*	4.01	0.0510 J*	0.0520 J*	1.24 J*	<0.130	—	0.698 J*	0.236	**4.19 J***	1.80	11400 J*	61.9 JH*
	MW-63-20212005	5/20/2021	2.37	1.32	3.65	3.25	<0.0300	<0.0300	<0.260	<0.260	—	0.555	0.537	1.69	1.34	596	172
	MW-63-20210109	9/1/2021	**10.4**	2.91	4.62	2.94	<0.0300	<0.0300	<0.260	<0.260	—	1.07	0.971	1.31	0.726	6020	3950
	MW-63-20211611	11/16/2021	**14.1**	2.12	4.37	2.74	<0.0300	<0.0300	<0.520	<0.260	—	0.765	0.709	0.897 JH*	0.394 J	6880 D	4720 D
MW-64	MW-64-20211602	2/16/2021	5.07	2.42	18.1	1.89	<0.0300	<0.0300	3.69 D	0.760 J, D	—	0.406	0.264	**3.24**	<0.340	8810 D	236 D
	MW-64-20212005	5/20/2021	3.07 D	1.33	51.3 D	6.48	0.100 J, D	<0.0300	2.73 D	0.290 J	—	0.532 D	0.243	**6.72 D**	<0.173	14000 D	1740 D
	MW-64-20210109	9/1/2021	3.51	1.61	11.1	0.738	<0.0300	<0.0300	0.775	0.282 J	—	0.238	0.183 J	0.893	<0.173	10900	1080
	MW-64-20211611	11/16/2021	4.62	3.11	8.35	0.603	<0.0300	<0.0300	0.858 J, D	0.479 J	—	0.234	0.199 J	<0.173	<0.173	11600 D	3410 D
MW-65	MW-65-20212502	2/25/2021	0.956 D	0.345	20.5	17.2	<0.0600	<0.0300	<0.260	<0.130	—	1.64 D	1.69	<0.680	<0.340	15700 D	7770
	MW-65-20211305	5/13/2021	1.88	0.353	20.5	13.2	<0.0300	<0.0300	<0.260	<0.260	—	0.477	0.398	0.279 J	<0.173	18000 D	3790 D
	MW-65-20210209	9/2/2021	2.58	0.641	27.0	18.8	<0.0300	<0.0300	<0.260	<0.260	—	0.240	0.216	0.280 J	<0.173	12800	2700
	MW-65-20210911	11/9/2021	1.18	0.674	20.6	19.2	0.0500 J	<0.0300	1.32	<0.260	—	0.929	0.886	1.40	0.263 J	5200	1840
MW-66	MW-66-20211002	2/10/2021	3.68	2.61	3.56	0.937	<0.0300	<0.0300	<0.260	0.147 J	—	0.348	0.338	<0.340	<0.340	16700 D	12300
	MW-66-20211305	5/13/2021	2.77	1.52	3.53	1.31	<0.0300	<0.0300	<0.260	<0.260	—	0.517	0.385	0.536	0.223 J	17400 D	12400 D
	MW-102-20212308 (DUP)	8/23/2021	1.04 J*	0.568	3.15	2.79	<0.0300	<0.0300	<0.260	<0.260	—	0.616	0.590	0.667 J*	<0.173 B*	4950 J*	1930 J*
	MW-66-20212308	8/23/2021	1.54 J*	0.657	3.62	2.79	<0.0300	<0.0300	<0.260	<0.260	—	0.757	0.648	0.449 J*	<0.173 B*	6840 J*	4010 D
	MW-66-20211011	11/10/2021	3.06	1.91	3.12	1.72	<0.0300	<0.0300	<0.520	<0.520	—	1.28	1.08	0.472 J	<0.173	13100 D	12100 D
MW-67	MW-67-20212302	2/23/2021	0.592	0.551	8.87	7.92	<0.0300	<0.0300	4.46	4.23	—	0.186 J	0.152 J	1.88	1.64	<37.9 B*	10.8 J
	MW-67-20212405	5/24/2021	0.708	0.626	8.37	7.75	0.0390 J	0.0490 J	1.06	0.715	—	0.251	0.180 J	2.34 J*	2.14	157	<18.2
	MW-67-20211808	8/18/2021	1.08	0.716	8.68	6.04	<0.0300	<0.0300	1.82	0.743	—	0.256	0.129 J	**4.03**	**3.33**	680	33.8 J
	MW-67-20210112	12/1/2021	1.01	0.498	6.50	5.09	<0.0300	0.0320 J	4.96	0.451 J*	—	0.0570 J*	0.0650 J*	2.06	1.75	839	<18.2
MW-68	MW-68-20211602	2/16/2021	**10.7**	**9.79**	15.5	9.19	0.156	0.109	9.49 D	6.57	—	0.954	0.609	**9.16**	**6.74**	580 D	<20.0 B*
	MW-68-20211708	8/17/2021	6.31 D	5.84 D	12.2 D	11.3 D	0.0940 J, D	0.0820 J, D	5.10 D	5.08 D	—	1.50 D	1.24 D	**5.93 D**	**4.43 D**	5860 D	5380 D
	MW-68-20211711	11/17/2021	**14.1**	**13.2**	5.54	3.48	<0.0300	<0.0300	14.4	12.4	—	0.239	0.0850 J	**8.31**	**6.35**	327	27.0 J

Table 30A: Metals in Groundwater

			Metals (µg/L) SW6020/6020B/SM 3500-Cr B-09															
			Arsenic		Barium		Cadmium		Chromium		Chromium, Hexavalent	Cobalt		Copper		Iron	
			8		200		1.19		100		0.36	4.8		3.1		32000	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-69	MW-69-20211102	2/11/2021	1.66	0.887	28.5	10.5	<0.0300	<0.0300	1.37	0.541	—	0.496	0.417	0.596	<0.340	**32700 D**	17100
	MW-69-20212605	5/26/2021	1.12	0.583	15.9	3.65	<0.0300	<0.0300	1.48	<0.520	—	0.368	0.281	0.448 J	<0.173	23400	3860 D
	MW-69-20212408	8/24/2021	0.852	0.473	12.4	1.92	<0.0300	<0.0300	1.41	0.549	—	0.222	0.147 J	0.757	<0.173	17400	4530
	MW-69-20210212	12/2/2021	0.872	0.478	7.41	0.857	<0.0300	<0.0300	1.90	0.794	—	0.133 J	0.100 J	1.03	<0.173	11200	686
MW-70	MW-70-20211102	2/11/2021	2.34 D	1.02 D	**247 D**	196 D	<0.150	<0.150	4.57 D	3.13 D	—	0.330 J, D	0.265 J, D	<3.40	<1.70	49700 D	39400 D
	MW-70-20212605	5/26/2021	0.940 J, D	0.660 J, D	**272 D**	177 D	<0.300	<0.300	7.59 D	6.14 D	—	0.450 J, D	0.290 J, D	<1.73	<1.73	53200 D	25700 D
	MW-70-20212308	8/23/2021	0.784	0.471	11.3 D	1.96	<0.0300	<0.0300	1.67 D	0.486 J	—	0.189 J	0.134 J	0.718	<0.173	17400 D	3780
	MW-70-20213011	11/30/2021	2.06	1.41	8.55	5.07	<0.0300	0.0360 J	1.08	0.517	—	0.474	—	**3.61**	1.99	593	55.8
MW-71	MW-71-20211702	2/17/2021	6.86 D	2.92	7.32 D	2.04	<0.0600	<0.0300	0.570 J, D	<0.130	—	1.02 D	0.714	2.02 D	0.383 J	10400 D	1840
	MW-71-20211805	5/18/2021	6.18	3.17	10.5	2.76	<0.0300	<0.0300	0.685	<0.260	—	0.883	0.777	1.28	<0.173	11600	5610
	MW-71-20211708	8/17/2021	**9.44**	3.94	8.35	1.42	<0.0300	<0.0300	0.610 J, D	<0.260	—	0.457	0.372	0.556	<0.173	14400 D	3860 D
	MW-71-20211611	11/16/2021	4.08	2.87	4.36	1.13	<0.0300	<0.0300	0.309 J	<0.260	—	0.376	0.305	1.60 JH*	<0.173	8690	6820 D
MW-72	MW-72-20211602	2/16/2021	0.648	0.498	2.70	2.15	<0.0300	<0.0300	<1.00 B*	<0.260	—	0.402	0.320	0.892	0.687	79.1 JH*	<12.5
	MW-72-20212105	5/21/2021	**8.25**	**9.11**	8.17	6.34	0.0490 J	0.0550 J	0.874 J, D	0.683	—	2.58	2.82	**6.64**	**5.70**	913 D	517
	MW-72-20212608	8/26/2021	**15.5**	**13.3**	9.68	7.60	0.0560 J	0.0420 J	0.919	0.726	—	2.98	2.77	**4.03**	**3.14**	2260	1320
	MW-72-20211711	11/17/2021	0.761	0.606	2.13	1.60	<0.0300	0.0390 J	<0.260	<0.260	—	0.131 J	0.0640 J	0.898	0.654	239	<18.2
MW-73	MW-73-20212202	2/22/2021	1.77	0.720	14.9	13.1	0.162	0.109	1.03 D	<0.948 B*	—	21.7	21.0	**20.9**	2.30	11500 D	852 D
	MW-73-20212005	5/20/2021	6.45 D	3.84 D	6.85 D	5.07	0.0620 J, D	<0.0300	0.708 J, D	<1.30	—	**7.40 D**	**7.14**	**23.9 D**	0.380 J	21400 D	10900 D
	MW-73-20212708	8/27/2021	**9.65**	0.0900 J	5.81	2.47	0.0840 J	<0.0300	0.967	<0.260	—	1.21	0.127 J	**38.9**	<0.173	**33400 D**	2280
	MW-73-20212911	11/29/2021	5.48	1.12	6.12	3.78	0.0860 J	<0.0300	0.841	0.312 J	—	**5.29**	**5.04**	**28.5**	0.772	12200	241
MW-74	MW-74-20212202	2/22/2021	**13.3**	5.17	29.2	13.2	<0.0300	<0.0300	2.25 D	1.11 JH*	—	1.67	1.42	0.623	<0.340	24100 D	5410 D
	MW-74-20212005	5/20/2021	5.90	3.94	22.6	6.57	<0.0300	<0.0300	1.11 D	<1.30	—	0.495	0.454	0.174 J	<0.173	19800 D	9440 D
	MW-74-20210209	9/2/2021	5.43	4.71	21.0	18.0	<0.0300	<0.0300	0.923	0.856	—	0.461	0.340	0.209 J	<0.173	14600	11900
	MW-74-20212411	11/24/2021	5.92	1.72	23.4	5.03	<0.0300	<0.0300	1.51	0.524	—	0.339	0.194 J	0.355 J*	<0.173	18100	296
MW-75	MW-75-20211802	2/18/2021	0.215	0.0990 J	5.32	4.85	<0.0300	<0.0300	0.314 J, D	<0.260	—	2.01	1.89	**4.74**	1.82	2150 D	35.2 JH*
	MW-75-20212405	5/24/2021	0.605	0.162 J	16.2	15.4	<0.0300	<0.0300	<0.260	<0.260	—	2.03	1.84 D	0.637	0.207 J*	**39700 D**	22800 D
	MW-101-20213108 (DUP)	8/31/2021	0.611	0.351	8.93	7.26	<0.0300	<0.0300	<0.260	<0.260	—	1.02	0.967	0.550	0.334 J	5490 J*	43.6
	MW-75-20213108	8/31/2021	0.571	0.306	8.25	7.74	<0.0300	<0.0300	<0.260	<0.260	—	1.03	0.891	0.590	0.355 J	2150 J*	38.9
	MW-75-20211211	11/12/2021	0.490	0.233	7.80	4.64	<0.0300	<0.0300	<0.260	<0.260	—	0.995	0.914	1.15	0.902	7880	94.3
MW-76	MW-100-20211002 (DUP)	2/10/2021	0.524	0.306	1.91	0.872	<0.0300	<0.0300	0.386 J, D	0.148 J	—	0.125 J	0.128 J	<0.340	<0.340	15300 D	7550
	MW-76-20211002	2/10/2021	0.510	0.291	1.93	0.933	<0.0300	<0.0300	<0.260	0.142 J	—	0.140 J	0.113 J	<0.340	<0.340	15500 D	7590
	MW-76-20211305	5/13/2021	2.09	1.19	9.34	0.827	<0.0300	<0.0300	0.947	<0.260	—	0.558	0.218	1.89	<0.173	22900 D	14600 D
	MW-76-20211708	8/17/2021	0.999	0.351	5.50	1.24	<0.0300	<0.0300	<0.520	<0.260	—	0.222	0.116 J	0.491 J	<0.173	16400 D	281 D
	MW-76-20211811	11/18/2021	0.808	0.611	4.18	0.532	<0.0300	<0.0600	0.297 J	<0.520	—	0.110 J	0.0940 J	<0.173	<0.346	18600	13100 D

Table 30A: Metals in Groundwater

			Metals (µg/L) SW6020/6020B/SM 3500-Cr B-09															
			Arsenic		Barium		Cadmium		Chromium		Chromium, Hexavalent	Cobalt		Copper		Iron	
			8		200		1.19		100		0.36	4.8		3.1		32000	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Decon	Decon-20212605	5/26/2021	<0.0373	<0.0373	<0.114	<0.114	<0.0300	<0.0300	<0.260	<0.260	—	<0.0173	<0.0173	<0.173	<0.173	<18.2	<18.2
Equipment Blank Samples	EB-2-20211102	2/11/2021	0.130 J	0.0430 J	0.0570 J	<0.0560	<0.0300	<0.0300	0.298 J	<0.130	—	<0.0290	<0.0290	<0.340	<0.340	29.2	15.0 J
	EB-1-20211705	5/17/2021	<0.0373	<0.0373	<0.114	<0.114	<0.0300	<0.0300	<0.260	<0.260	—	<0.0173	<0.0173	<0.173	<0.173	<18.2	<18.2
	EB-2-20212505	5/25/2021	<0.0373	<0.0373	<0.114	<0.114	<0.0300	<0.0300	<0.260	<0.260	—	<0.0173	<0.0173	<0.173	<0.173	<18.2	<18.2
	EB-1-20212008	8/20/2021	<0.0373	<0.0373	<0.114	<0.114	<0.0300	<0.0300	<0.260	<0.260	—	<0.0178	<0.0178	<0.173	<0.173	26.5 J	<18.2
	EB-2-20212508	8/25/2021	<0.0373	<0.0373	<0.114	<0.114	<0.0300	<0.0300	<0.260	<0.260	—	<0.0178	<0.0178	<0.173	<0.173	<18.2	<18.2
	EB-3-20210209	9/2/2021	<0.0373	<0.0373	<0.114	<0.114	<0.0300	<0.0300	<0.260	<0.260	—	<0.0178	<0.0178	<0.173	<0.173	<18.2	<18.2
	EB-1-20211011	11/10/2021	<0.0373	<0.0373	<0.114	<0.114	<0.0300	<0.0300	<0.260	<0.260	—	<0.0178	<0.0178	<0.173	<0.173	<18.2	<18.2
	EB-2-20211611	11/16/2021	<0.0373	<0.0373	<0.114	<0.114	<0.0300	<0.0300	<0.260	<0.260	—	<0.0178	<0.0178	0.206 J*	<0.173	<18.2	<18.2
	EB-3-20212211	11/22/2021	<0.0373	<0.0373	1.67	<0.114	<0.0300	<0.0300	<0.260	<0.260	—	<0.0178	<0.0178	<0.173	<0.173	<18.2	<18.2

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

NA	No applicable regulatory limit exists for the associated analyte.
—	Not analyzed.
<	Analyte was not detected; reported as less than the detection limit (<DL).
B*	Result is included in the same preparatory batch as a blank detection for the associated analyte. Result is considered non-detect. Flag applied by Shannon & Wilson (*).
D	Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
J	Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
J*	Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
JH*	Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*).
JL*	Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).
R*	Rejected result due to severe quality control failures; see checklist for details. Flag applied by Shannon & Wilson (*).
	DUP = field duplicate; µg/L = micrograms per liter

Table 30B: Metals in Groundwater

			Metals (ug/L)															
			SW6020/6020B														EPA 7470A	
			Lead		Manganese		Nickel		Selenium		Silver		Vanadium		Zinc		Mercury	
			5.6		2000		8.2		71		1.9		144		81		0.025	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-3	MW-3-20211902	2/19/2021	3.15	<0.0680	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-3-20212805	5/28/2021	0.201	<0.0513	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-3-20213008	8/30/2021	0.165	<0.0513	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-3-20212411	11/24/2021	0.0790 J	<0.0513	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-4	MW-4-20211902	2/19/2021	<0.0680	<0.0680	22.7 D	11.9 D	1.81	1.60	<0.440	0.443 J	<0.0340	<0.0340	—	—	<4.00 B*	1.86 J	<0.0130	<0.0130
	MW-4-20212605	5/26/2021	0.343	<0.0513	561 D	571 D	2.20	1.87	0.225 J	<0.179	<0.0220	<0.0220	—	—	4.69 J	3.40 J	**<0.0500 J***	**<0.0500 J***
	MW-4-20213008	8/30/2021	0.357	<0.0513	140	114	0.875	0.556	<0.179	0.404 J	<0.0220	<0.0220	—	—	<2.92	<2.92	**<0.100 B***	**<0.100 B***
	MW-4-20212411	11/24/2021	0.393	0.0530 J	47.3	4.43	2.00	1.34	0.322 J	0.213 J	<0.0220	<0.0220	—	—	3.14 J	<2.92	<0.0130	<0.0130 B*
MW-7	MW-7-20212705	5/27/2021	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**<0.0500**	**<0.0500 J***
MW-8	MW-8-20211602	2/16/2021	—	—	—	—	0.812	0.660	<0.440	<0.440	<0.0170	<0.0170	—	—	<0.820	<0.820	<0.0130	<0.0130
	MW-8-20212605	5/26/2021	—	—	—	—	1.31	1.15 D	<0.179	0.646 J, D	0.0240 J	<0.400 B*	—	—	<2.92	<5.84	**<0.0500 J***	**<0.0500 J***
	MW-8-20213008	8/31/2021	—	—	—	—	1.09	0.892	0.198 J	0.392 J	<0.0220	<0.0220	—	—	<2.92	<2.92	**<0.100 B***	**<0.100 B***
	MW-8-20211711	11/17/2021	—	—	—	—	0.997	0.891	<0.179	0.213 J	<0.0220	<0.0220	—	—	<2.92	<2.92	<0.0130	<0.0130
MW-9	MW-9-20211802	2/18/2021	—	—	874 D	842 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-9-20211905	5/19/2021	—	—	348 D	265	—	—	—	—	—	—	—	—	—	—	—	—
	MW-9-20213108	8/31/2021	—	—	211	182	—	—	—	—	—	—	—	—	—	—	—	—
	MW-9-20211011	11/10/2021	—	—	146 D	115 D	—	—	—	—	—	—	—	—	—	—	—	—
MW-10R	MW-10R-20211902	2/19/2021	0.171	0.0720 J	74.7 D	69.8 D	1.51	1.33	<0.440	<0.440	<0.0340	<0.0340	1.95 D	1.08 D	<5.11 B*	1.15 J	<0.0130 J*	<0.0130
	MW-10R-20212505	5/25/2021	<0.0513	<0.0513	183	206	0.898 JH*	1.01	<0.179	<0.179	<0.0220	<0.0220	1.08	0.564	<2.92	<2.92	<0.0130	**<0.05 J***
	MW-10R-20213108	8/31/2021	<0.0513	<0.0513	176	186	1.45	1.20	<0.179	<0.179	<0.0220	<0.0220	0.858	0.434	<2.92	<2.92	**<0.100 B***	**<0.100 B***
	MW-10R-20212311	11/23/2021	0.0580 J	<0.0513	48.4	45.5	1.29	1.09	0.296 J	0.194 J	<0.0220	<0.0220	1.60	1.35	<2.92	<2.92	<0.0130	<0.0130
MW-11	MW-11-20211902	2/19/2021	—	—	595 D	564 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-11-20212505	5/25/2021	—	—	1600 D	1620 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-11-20212608	8/26/2021	—	—	1620 D	1480 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-11-20212311	11/23/2021	—	—	1090 D	1050 D	—	—	—	—	—	—	—	—	—	—	—	—
MW-14	MW-14-20211902	2/19/2021	<0.0680	<0.0680	59.3 D	59.3 D	1.98	1.93	<0.440	<0.440	<0.0340	<0.0340	—	—	<4.00 B*	1.07 J	<0.0130	<0.0130
	MW-14-20211405	5/14/2021	<0.0513	<0.0513	162 D	164 D	1.15	1.05	<0.179	<0.179	<0.0220	<0.0220	—	—	<2.92	<2.92	**0.0270 J**	<0.0130 B*
	MW-14-20212608	8/26/2021	<0.0513	<0.0513	880 D	743 D	0.875	0.811	0.203 J	<0.179	<0.0220	<0.0220	—	—	<2.92	<2.92	**<0.100 B***	<0.0130
	MW-14-20212311	11/23/2021	0.0820 J	<0.0513	591 D	522 D	1.63	1.46	0.385 J	0.445 J	<0.0220	<0.0220	—	—	<2.92	<2.92	<0.0130	<0.0130
MW-15	MW-15-20212008	8/20/2021	—	—	—	4.88	—	—	—	—	—	—	—	—	—	—	—	—
	MW-15-20211911	11/19/2021	—	—	2.76	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 30B: Metals in Groundwater

			Metals (ug/L)															
			SW6020/6020B														EPA 7470A	
			Lead		Manganese		Nickel		Selenium		Silver		Vanadium		Zinc		Mercury	
			5.6		2000		8.2		71		1.9		144		81		0.025	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-23	MW-23-20211202	2/12/2021	—	—	1260 D	1180 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-23-20211405	5/14/2021	—	—	1730 D	1620 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-23-20212508	8/25/2021	—	—	1590 D	1550 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-23-20211911	11/19/2021	—	—	526 D	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-30	MW-30-20211802	2/18/2021	—	—	1320 D	1270 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-30-20211905	5/19/2021	—	—	632 D	596 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-30-20212008	8/20/2021	—	—	644 B, D	647 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-30-20211211	11/12/2021	—	—	974 D	947 D	—	—	—	—	—	—	—	—	—	—	—	—
MW-36	MW-36-20212202	2/22/2021	<0.0680	<0.0680	**2110 D**	**2060 D**	1.10	0.897	<0.440	<0.440	<0.0340	<0.0340	—	—	<0.820	0.825 J	<0.0130	<0.0130
	MW-36-20211705	5/17/2021	0.0570 J	<0.0513	**2910 D**	**2830 D**	0.833	0.543	0.247 J	0.214 J	<0.0220	<0.0220	—	—	<2.92	<2.92	<0.0130 B*	—
	MW-36-20211808	8/18/2021	<0.0513	<0.0513	**3130 B, D**	**2940 D**	0.475 J	0.448 J	0.287 J	<0.179	<0.0220	<0.0220	—	—	<2.92	<2.92	0.0150 J	**<0.100 B***
	MW-36-20211211	11/12/2021	0.0800 J	<0.0513	**3060 D**	**2890 D**	0.897	0.473 J	0.276 J	<0.179	<0.0220	<0.0220	—	—	<2.92	<2.92	**<0.100 B***	<0.0130
MW-37	MW-102-20212302 (DUP)	2/23/2021	—	—	9.26 J*	0.121 J*	4.75	3.59	0.763	0.674	—	—	—	—	0.967 J	0.829 J*	—	—
	MW-37-20212302	2/23/2021	—	—	0.411 J*	0.173 J*	3.87	3.88	0.653	0.754	—	—	—	—	<0.820	1.31 J*	—	—
	MW-37-20212105	5/21/2021	—	—	146	138	**12.2**	**11.3**	0.589	0.432 J	—	—	—	—	<2.92	<2.92	—	—
	MW-37-20210209	9/2/2021	—	—	588 D	513 D	**8.85**	7.21	<0.179	<0.179	—	—	—	—	<2.92	<2.92	—	—
	MW-37-20210312	12/3/2021	—	—	9.64	0.490 J	5.54	4.75	1.09	0.897	—	—	—	—	<2.92	<2.92	—	—
MW-38	MW-38-20212302	2/23/2021	—	—	9.22	9.11	—	—	—	—	—	—	—	—	—	—	—	—
	MW-38-20212105	5/21/2021	—	—	11.9	1.20 JH*	—	—	—	—	—	—	—	—	—	—	—	—
	MW-103-20211808 (DUP)	8/18/2021	—	—	569 B, D	255 J*	—	—	—	—	—	—	—	—	—	—	—	—
	MW-38-20211808	8/18/2021	—	—	618 B, D	368 J*	—	—	—	—	—	—	—	—	—	—	—	—
	MW-38-20210911	11/9/2021	—	—	15.1	6.80	—	—	—	—	—	—	—	—	—	—	—	—
MW-39	MW-39-20212402	2/24/2021	—	—	63.7 D	0.362 J, D	2.21 D	0.170 J, D	—	—	—	—	—	—	7.25 J, D	<1.64	—	—
	MW-39-20212805	5/28/2021	—	—	980 D	1.84	**12.4 D**	0.252 J	—	—	—	—	—	—	46.2 D	<2.92	—	—
	MW-39-20211908	8/19/2021	—		26.7 B, D		1.72 J, D		—		—		—		<29.2		—	
	MW-39-20212008	8/20/2021		—		1.15 JL*		2.25 J, D		—		—		—		<29.2		—
	MW-39-20213011	11/30/2021	—	—	7.74	0.246 J	0.421 J	0.179 J	—	—	—	—	—	—	<2.92	<2.92	—	—
MW-40	MW-40-20212502	2/25/2021	<0.0680	<0.0680	164	149	4.32	3.72	1.92	1.85	<0.0170	<0.0170	—	—	<0.820	0.865 J	<0.0130	<0.0130
	MW-40-20212005	5/20/2021	0.129	<0.0513	863 D	825 D	1.68	0.558	0.202 J	0.235 J	<0.0220	<0.0220	—	—	<2.92	<2.92	<0.0130	**<0.125 B***
	MW-40-20210109	9/1/2021	0.0850 J	<0.0513	1310 D	1180 D	2.00	0.837	0.204 J	<0.179	<0.0220	<0.0220	—	—	<2.92	<2.92	**0.0300 J**	**<0.100 B***
	MW-102-20211111 (DUP)	11/11/2021	0.550 J*	<0.0513	1010 D	847 D	8.02 J*	0.822	0.292 J	0.353 J*	<0.0220	<0.0220	—	—	<2.92	<2.92	**<0.100 B***	<0.0130
	MW-40-20211111	11/11/2021	0.243 J*	<0.0513	943 D	878 D	4.11 J*	0.873	<0.179	0.190 J*	<0.0220	<0.0220	—	—	<2.92	<2.92	**<0.100 B***	<0.0130

Table 30B: Metals in Groundwater

			Metals (ug/L)															
			SW6020/6020B														EPA 7470A	
			Lead		Manganese		Nickel		Selenium		Silver		Vanadium		Zinc		Mercury	
			5.6		2000		8.2		71		1.9		144		81		0.025	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-41	MW-41-20212502	2/25/2021	4.13	<0.0680	692 D	741 D	2.13	0.560	<0.440	<0.440	<0.0170	<0.0170	—	—	1.62 J	<0.820	<0.0130	<0.0130
	MW-41-20212005	5/20/2021	0.149	<0.0513	807 D	743 D	3.21	0.637	<0.179	<0.179	<0.0220	<0.0220	—	—	<2.92	<2.92	<0.0130	**<0.100 B***
	MW-41-20210109	9/1/2021	0.138	<0.0513	823 D	744 D	1.52	0.424 J	<0.179	<0.179	<0.0220	<0.0220	—	—	<2.92	<2.92	**0.0310 J**	**<0.100 B***
	MW-41-20211111	11/11/2021	0.0860 J	<0.0513	709 D	635 D	2.60	0.715	<0.179	0.225 J	<0.0220	<0.0220	—	—	<2.92	<2.92	**<0.100 B***	<0.0130
MW-42	MW-42-20212302	2/23/2021	—	—	2.19 D	0.782 J, D	—	—	—	—	—	—	—	—	—	—	<0.0130	<0.0130
	MW-42-20212405	5/24/2021	—	—	30.5	24.2 D	—	—	—	—	—	—	—	—	—	—	<0.0130	**<0.0500 J***
	MW-42-20211808	8/18/2021	—	—	108 B, D	86.4	—	—	—	—	—	—	—	—	—	—	0.0220 J	**<0.100 B***
	MW-42-20212911	11/29/2021	—	—	2.42	1.42	—	—	—	—	—	—	—	—	—	—	<0.0130	<0.0130
MW-43	MW-43-20211702	2/17/2021	—	—	190	207 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-43-20212405	5/24/2021	—	—	201 D	179 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-43-20211908	8/19/2021	—	—	227 B, D	228 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-43-20211611	11/16/2021	—	—	284 D	219	—	—	—	—	—	—	—	—	—	—	—	—
MW-44	MW-44-20212302	2/23/2021	—	—	667 D	626 D	—	—	—	—	—	—	—	—	—	—	<0.0130	<0.0130
	MW-44-20212405	5/24/2021	—	—	855 D	808 D	—	—	—	—	—	—	—	—	—	—	<0.0130	**<0.0500 J***
	MW-44-20212008	8/20/2021	—	—	331 B, D	332 D	—	—	—	—	—	—	—	—	—	—	0.0230 J	<0.0130
	MW-44-20211611	11/16/2021	—	—	1530 D	1500 D	—	—	—	—	—	—	—	—	—	—	<0.0130	0.0180 J
MW-45	MW-45-20212402	2/24/2021	—	—	805 D	666 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-45-20211805	5/18/2021	—	—	51.5	352 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-45-20212708	8/27/2021	—	—	765 D	776 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-45-20211811	11/18/2021	—	—	611 D	679 D	—	—	—	—	—	—	—	—	—	—	—	—
MW-46	MW-46-20212402	2/24/2021	<0.0680	<0.0680	1440 D	1140 D	0.455 J	0.371 J	<0.440	<0.440	<0.0170	<0.0170	—	—	<0.820	<0.820	<0.0130	<0.0130
	MW-46-20211405	5/14/2021	0.0830 J	<0.0513	1120 D	959 D	<0.179	0.216 J	<2.92	<0.179	<0.0220	<0.0220	—	—	—	<2.92	<0.0130	<0.0130 B*
	MW-46-20211708	8/17/2021	<0.0513	<0.0513	1100 B, D	1040 D	0.276 J	0.222 J	0.199 J	<0.179	<0.0220	<0.0220	—	—	<2.92	31.7	0.0130 J	<0.0130
	MW-46-20212211	11/22/2021	0.245	<0.0513	874 D	838 D	1.45	1.22	0.399 J	0.314 J	<0.0220	<0.0220	—	—	<2.92	<2.92	<0.0130	<0.0130
MW-47	MW-47-20212705	5/27/2021	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**<0.0500**	**<0.0500 J***
MW-49	MW-49-20211202	2/11/2021	<0.0680	<0.0680	4.19	1.77	2.47	2.22	<0.440	<0.440	<0.0170	<0.0170	—	—	0.904 J	<0.820	<0.0130	<0.0130
	MW-49-20211905	5/19/2021	<0.0513	<0.0513	7.37	1.56	2.91	2.41	0.377 J	<0.179	<0.0220	<0.0220	—	—	<2.92	<2.92	<0.0130	<0.0130
	MW-49-20212508	8/25/2021	0.0550 J	<0.0513	110	6.06	3.29	2.11	<0.179	0.242 J	<0.0220	<0.0220	—	—	<2.92	<2.92	<0.0130	<0.0130
	MW-49-20210212	12/2/2021	0.0830 J	<0.0513	36.9	2.95	1.81	1.25	0.198 J	<0.179	<0.0220	<0.0220	—	—	<2.92	<2.92	<0.0130	<0.0130
MW-50	MW-50-20211202	2/12/2021	—	—	265 D	235 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-50-20212608	8/26/2021	—	—	255	243 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-103-20210911 (DUP)	11/9/2021	—	—	322 J*	213	—	—	—	—	—	—	—	—	—	—	—	—
	MW-50-20210911	11/9/2021	—	—	220 J*	276 D	—	—	—	—	—	—	—	—	—	—	—	—

Table 30B: Metals in Groundwater

			Metals (ug/L)															
			SW6020/6020B														EPA 7470A	
			Lead		Manganese		Nickel		Selenium		Silver		Vanadium		Zinc		Mercury	
			5.6		2000		8.2		71		1.9		144		81		0.025	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-52	MW-52-20211202	2/12/2021	—	—	715 D	667 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-52-20212605	5/26/2021	—	—	814 D	841 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-52-20212708	8/27/2021	—	—	741 D	567 D	—	—	—	—	—	—	—	—	—	—	—	—
	MW-52-20210112	12/1/2021	—	—	975 D	482 D	—	—	—	—	—	—	—	—	—	—	—	—
MW-53	MW-101-20212202 (DUP)	2/22/2021	<0.0680	<0.0680	182 D	177 D	0.414 J	0.377 J	<0.440	<0.440	<0.0340	<0.0340	1.41 D	0.130 J, D	1.81 J*	0.865 J	<0.0130	<0.0130
	MW-53-20212202	2/22/2021	<0.0680	<0.0680	177 D	175 D	0.369 J	0.429 J	<0.440	<0.440	<0.0340	<0.0340	1.40 D	0.112 J, D	1.00 J*	0.953 J	<0.0130	<0.0130
	MW-53-20212505	5/25/2021	<0.0513	<0.0513	117	118	<0.500 B*	0.511	<0.179	<0.179	<0.0220	<0.0220	1.28	1.11	<2.92	<2.92	<0.0130	**<0.0500 J***
	MW-53-20210109	9/1/2021	<0.0513	<0.0513	114	112	2.40	2.24	<0.179	<0.179	<0.0220	<0.0220	1.20	1.06	<2.92	<2.92	**0.0400 J**	**<0.100 B***
	MW-53-20210112	12/1/2021	<0.0513	<0.0513	204	141	1.15	0.585	0.430 J	<0.573 B*	<0.0220	<0.0220	1.58	0.268	<2.92	<2.92	<0.0130	<0.0130
MW-54	MW-54-20211802	2/18/2021	0.185	<0.0680	—	—	0.606	0.510	1.35	1.05	<0.0340	<0.0340	14.9 D	14.1 D	2.67 J	<0.820	<0.0130	<0.0130
	MW-54-20212405	5/24/2021	<0.0513	<0.0513	45.1	34.2	<0.500 B*	0.413 J	1.28	1.16	<0.0220	<0.0220	11.4	10.5	<2.92	55.8	<0.0130	**<0.0500 J***
	MW-54-20212008	8/20/2021	<0.0513	<0.0513	43.1 B, D	37.1	0.508	0.489 J	1.77	1.66	<0.0220	<0.0220	12.7 D	11.7	<2.92	<2.92	0.0180 J	<0.0130
	MW-54-20210312	12/3/2021	<0.0513	<0.0513	1.80	0.385 J	0.513	0.440 J	1.59	1.31	<0.0220	<0.0220	5.37	4.86	<2.92	<2.92	<0.0130	<0.0130
MW-55	MW-55-20211102	2/11/2021	<0.0680	<0.0680	333 D	330 D	0.377 J	0.628	<0.440	<0.440	<0.0170	<0.0170	0.874	0.437	<0.820	<0.820	<0.0130	<0.0130
	MW-55-20211405	5/14/2021	0.0780 J	<0.0513	230 D	197	0.468 J	0.234 J	0.287 J	0.271 J	<0.0220	<0.0220	4.35 D	0.140 J	<2.92	<2.92	<0.0130	<0.0130 B*
	MW-55-20212408	8/24/2021	0.0520 J	<0.0513	387 D	309 D	0.493 J	0.332 J	0.206 J	<0.179	<0.0220	<0.0220	5.14	0.0750 J	<2.92	<2.92	<0.0130	<0.0130
	MW-55-20211811	11/18/2021	<0.0513	<0.0513	237	196	0.232 J	0.182 J	0.381 J	0.240 J	<0.0220	<0.0220	3.44	0.0660 J	<2.92	<2.92	<0.0130	<0.0130
MW-56	MW-56-20211002	2/10/2021	0.106	<0.0680	582 D	546 B, D	0.193 J	0.128 J	<0.440	<0.440	<0.0170	<0.0170	1.05 D	0.197 J	<0.820	1.17 J	<0.0130	<0.0130
	MW-56-20211705	5/17/2021	0.228	<0.0513	705 D	620 D	0.257 J	0.162 J	<0.179	<0.179	<0.0220	<0.0220	1.25	<0.278	<2.92	<2.92	<0.0130 B*	<0.0130 B*
	MW-56-20213008	8/30/2021	0.528	<0.0513	595 D	525 D	0.424 J	0.146 J*	<0.179	<0.179	<0.0220	<0.0220	3.52	0.203	<2.92	<2.92	**<0.100 B***	**<0.100 B***
	MW-56-20212211	11/22/2021	<0.0513	<0.0513	473 D	448 D	0.120 J	<0.0792	<0.179	<0.179	<0.0220	<0.0220	1.36	0.448	<2.92	<2.92	<0.0130	<0.0130
MW-57	MW-57-20211802	2/18/2021	0.590	0.163	—	—	6.75	5.57	<0.440	<0.440	0.134 J, D	<0.0340	16.1 D	7.77 D	1.68 J	<0.820	<0.0130	<0.0130
	MW-101-20211905 (DUP)	5/19/2021	0.527	0.0830 J	464 D	424 D	4.66	3.50	0.533	0.311 J	0.0760 J	<0.0220	9.78	6.23	<2.92	<2.92	<0.0130	<0.0130
	MW-57-20211905	5/19/2021	0.595	0.0640 J	476 D	416 D	4.89	3.32	0.477 J	0.292 J	0.0740 J	<0.0220	10.1	5.83	<2.92	<2.92	<0.0130	<0.0130
	MW-57-20213108	8/31/2021	0.344	<0.0513	1030 D	1040 D	5.57	3.98	<0.179	0.253 J	0.172 J	<0.0220	7.35	2.81	<2.92	<2.92	**<0.100 B***	**<0.100 B***
	MW-57-20211111	11/11/2021	0.244	<0.0513	757 D	717 D	3.54	2.88	0.201 J	<0.179	0.0280 J	<0.0220	5.79	1.78	<2.92	<2.92	**<0.100 B***	<0.0130
MW-58	MW-58-20211802	2/18/2021	0.146	0.0840 J	—	—	**18.0**	**18.4**	<0.440	<0.440	<0.0340	<0.0340	1.52 D	<0.0800	17.1	17.3	<0.0130	<0.0130
	MW-58-20211705	5/17/2021	0.199	0.0760 J	1010 D	882 D	2.97	2.54	0.514	<0.179	<0.0220	<0.0220	6.05	1.51 D	4.61 J	4.37 J	<0.0130 B*	<0.0130 B*
	MW-58-20212508	8/25/2021	0.178 J, D	<0.0513	1680 D	1560 D	0.786 J, D	0.622	<0.358	<0.179	<0.0440	<0.0220	7.17 D	0.556	<5.84	<2.92	<0.0130	<0.0130
	MW-58-20211211	11/12/2021	0.0700 J	<0.0513	1600 D	1500 D	0.500	0.366 J	<0.179	<0.179	<0.0220	<0.0220	7.72 D	0.251	<2.92	<2.92	**<0.100 B***	<0.0130
MW-59	MW-59-20211202	2/12/2021	<0.0680	<0.0680	631 D	590 D	2.11	1.89	<0.440	<0.440	<0.0170	<0.0170	3.17 D	1.77	3.45 J	4.58	<0.0130	<0.0130
	MW-59-20211805	5/18/2021	0.0870 J	<0.0513	216	199	2.27	1.96	<0.179	<0.179	<0.0220	<0.0220	2.72	1.17	<2.92	<2.92	<0.0130	<0.0130
	MW-59-20212508	8/25/2021	<0.0513	<0.0513	202	202	1.98	1.80	<0.179	<0.179	<0.0220	<0.0220	1.73	1.10	<2.92	<2.92	<0.0130	<0.0130
	MW-59-20213011	11/30/2021	0.150	<0.0513	250	251	3.26	2.96	0.420 J	0.338 J	<0.0220	<0.0220	3.08	1.14	<2.92	<2.92	<0.0130	<0.0130

Table 30B: Metals in Groundwater

			Metals (ug/L)															
			SW6020/6020B														EPA 7470A	
			Lead		Manganese		Nickel		Selenium		Silver		Vanadium		Zinc		Mercury	
			5.6		2000		8.2		71		1.9		144		81		0.025	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-60	MW-60-20211702	2/17/2021	0.354 D	<0.0680	1380 D	1190 D	3.29 D	1.57	<0.880	<0.440	<0.0340	<0.0170	7.37 D	0.634 D	3.72 J, D	1.13 J	<0.0130	<0.0130
	MW-60-20211705	5/17/2021	<0.0513	<0.0513	1330 D	1160 D	1.31	1.27	<0.179	<0.179	<0.0220	<0.0220	5.82	1.35 D	<2.92	<2.92	<0.0130 B*	<0.0130 B*
	MW-60-20210109	9/1/2021	0.837	<0.0513	1300 D	1070 D	3.67	1.38	<0.179	<0.179	<0.0220	<0.0220	9.92	2.14	3.95 J	<2.92	**0.0440 J**	**<0.100 B***
	MW-60-20211711	11/17/2021	0.450 D	<0.103	967 D	852 D	1.50 D	0.548	<0.358	<0.179	<0.0440	<0.0440	6.46 D	1.84 D	<5.84	<2.92	<0.0130	<0.0130
MW-61	MW-61-20212202	2/22/2021	<0.0680	<0.0680	61.2	52.9	7.69	7.42	0.683	0.797	<0.0340	<0.0340	2.09	1.93	1.18 J	1.44 J	<0.0130 J*	0.0150 J
	MW-61-20212105	5/21/2021	0.180	<0.0513	666 D	661 D	5.69	5.62	0.472 J	0.296 J	0.0230 J	<0.0220	2.20	1.60	<2.92	<2.92	<0.0130	**<0.104 B***
	MW-61-20210209	9/2/2021	0.586	0.153	1280 D	1190 D	**8.71**	7.35	0.302 J	0.192 J	0.0310 J	<0.0220	7.77	4.53	<2.92	<2.92	<0.0130	**<0.100 B***
	MW-61-20210112	12/1/2021	0.262	<0.0513	53.2	43.7	4.84	4.41	0.354 J	<0.500 B*	<0.0220	<0.0220	4.04	2.19	<2.92	<2.92	<0.0130	<0.0130
MW-62	MW-62-20211802	2/18/2021	0.616	0.0930 J	—	—	3.99	3.45	<0.440	<0.440	<0.0340	<0.0340	5.62 D	1.09 D	3.61 J	2.28 J	<0.0130	<0.0130
	MW-103-20211905 (DUP)	5/19/2021	0.159	0.0610 J	305 D	277 D	3.74	3.32	0.265 J	0.414 J	<0.0220	<0.0220	4.52 D	3.71 D	4.04 J	<2.92	<0.0130	**<0.100 B***
	MW-62-20211905	5/19/2021	0.185	0.0590 J	313 D	279 D	4.03	3.62	0.338 J	0.372 J	<0.0220	<0.0220	5.60 D	3.93 D	3.22 J	<2.92	<0.0130	<0.0130
	MW-62-20213108	8/31/2021	0.405	<0.0513	222	277 D	6.27	4.90	<0.179	<0.179	<0.0220	<0.0220	4.08	1.47	3.38 J	<2.92	**<0.100 B***	**<0.100 B***
	MW-62-20211111	11/11/2021	0.670	<0.0513	178	183	**11.0**	**9.03**	0.449 J	0.287 J	<0.0220	<0.0220	6.29	1.46	5.32 J	<2.92	**<0.100 B***	<0.0130
MW-63	MW-103-20211702 (DUP)	2/17/2021	<0.0680 J*	<0.0680	27.8 J*	25.9	2.44 J*	2.30	0.884	0.769	<0.0170	<0.0170	2.45 J*	2.02	0.993 J*	1.20 J	<0.0130	<0.0130
	MW-63-20211702	2/17/2021	0.492 J*	<0.0680	80.5 J*	24.3	3.51 J*	2.41	0.942 J*	0.854	<0.0170	<0.0170	9.65 J*	2.02	6.40 J*	1.13 J	<0.0130	<0.0130
	MW-63-20212005	5/20/2021	<0.0513	<0.0513	157	166	1.85	1.83	<0.179	<0.179	<0.0220	<0.0220	1.92	1.44	<2.92	<2.92	<0.0130	**<0.100 B***
	MW-63-20210109	9/1/2021	<0.0513	<0.0513	886 D	848 D	2.16	1.99	<0.179	<0.179	<0.0220	<0.0220	1.31	0.473	<2.92	<2.92	**0.0290 J**	**<0.100 B***
	MW-63-20211611	11/16/2021	0.142 J, D	<0.0513	788 D	670 D	2.82	2.18	<0.179	<0.179	<0.0440	<0.0220	2.34 D	0.901	<2.92	<2.92	<0.0130	<0.0130
MW-64	MW-64-20211602	2/16/2021	1.51	<0.0680	652 D	482 D	5.58	0.906	<0.440	<0.440	<0.0340	<0.0170	2.49 D	0.530 D	2.50 J	<0.820	<0.0130	<0.0130
	MW-64-20212005	5/20/2021	2.63 D	<0.0513	794 D	729 D	7.19 D	1.46	0.530 J, D	0.454 J	<0.0440	<0.0220	3.59 D	0.306	11.3 J, D	<2.92	<0.0130	**<0.100 B***
	MW-64-20210109	9/1/2021	0.305	<0.0513	816 D	710 D	0.794	0.361 J	<0.179	<0.179	<0.0220	<0.0220	1.96	0.380	<2.92	<2.92	**0.0310 J**	**<0.100 B***
	MW-64-20211611	11/16/2021	<0.103	<0.0513	835 D	688 D	0.396 J	0.235 J	<0.179	<0.179	<0.0440	<0.0220	2.39 D	0.689	<2.92	<2.92	<0.0130	<0.0130
MW-65	MW-65-20212502	2/25/2021	<0.136	<0.0680	**5490 D**	**5330 D**	**19.8 D, B**	**19.7**	<0.880	<0.440	<0.0170	<0.0170	<0.0800	<0.0400	1.73 J, D	1.56 J	<0.0130	<0.0130
	MW-65-20211305	5/13/2021	0.0780 J	<0.0513	**2530 D**	**2230 D**	5.65	4.81	<0.179	<0.179	<0.0220	<0.0220	0.0640 J	<0.0556	<2.92	<2.92	<0.0130	<0.0130
	MW-65-20210209	9/2/2021	0.100	<0.0513	1150 D	1110 D	2.70	2.54	<0.179	<0.179	<0.0220	<0.0220	0.0570 J	<0.0556	<2.92	<2.92	<0.0130	**<0.100 B***
	MW-65-20210911	11/9/2021	0.0740 J	<0.0513	769 D	741 D	**22.9**	**22.8**	0.232 J	<0.179	<0.0220	<0.0220	<0.0556	<0.0556	<2.92	<2.92	**<0.100 B***	<0.0130
MW-66	MW-66-20211002	2/10/2021	<0.0680	<0.0680	424 D	335 B, D	0.927	0.813	—	<0.440	<0.0170	<0.0170	1.14 D	0.355	7.31	8.57	<0.0130	<0.0130
	MW-66-20211305	5/13/2021	<0.0513	<0.0513	525 D	505 D	0.985	0.764	<0.179	<0.179	<0.0220	<0.0220	2.77	0.165 J	<2.92	<2.92	<0.0130	<0.0130
	MW-102-20212308 (DUP)	8/23/2021	<0.0513	<0.0513	981 B, D	988 D	0.675	0.692	<0.179	<0.179	<0.0220	<0.0220	0.607 J*	<0.0556	<2.92	<2.92	0.0180 J	<0.0130 B*
	MW-66-20212308	8/23/2021	<0.0513	<0.0513	1050 B, D	1040 D	0.814	0.671	<0.179	<0.179	<0.0220	<0.0220	1.25 J*	0.0660 J	<2.92	<2.92	0.0180 J	<0.0130 B*
	MW-66-20211011	11/10/2021	<0.0513	<0.0513	508 D	507 D	2.16	1.85	<0.179	<0.179	<0.0220	<0.0220	1.88 D	0.154 J, D	<2.92	<2.92	**<0.100 B***	**<0.100 B***

Table 30B: Metals in Groundwater

			Metals (ug/L)															
			SW6020/6020B														EPA 7470A	
			Lead		Manganese		Nickel		Selenium		Silver		Vanadium		Zinc		Mercury	
			5.6		2000		8.2		71		1.9		144		81		0.025	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-67	MW-67-20212302	2/23/2021	<0.0680	<0.0680	36.3	33.9	0.700	0.648	2.05	2.19	<0.0170	<0.0170	2.00	1.74	<0.820	<0.820	<0.0130	<0.0130
	MW-67-20212405	5/24/2021	0.0550 J*	<0.0513	29.1	29.9	1.22	1.08	1.13	1.16	<0.0220	<0.0220	3.11	2.59	<2.92	<2.92	<0.0130	**<0.0500 J***
	MW-67-20211808	8/18/2021	0.0880 J	<0.0513	9.50 B	5.05	2.09	1.72	0.704	0.470 J	<0.0220	<0.0220	4.74	3.49	<2.92	<2.92	0.0190 J	**<0.100 B***
	MW-67-20210112	12/1/2021	<0.0513	<0.0513	19.4	19.2	0.686	0.696	3.36	3.05	<0.0220	<0.0220	1.72	1.41	<2.92	<2.92	<0.0130	<0.0130
MW-68	MW-68-20211602	2/16/2021	2.74	0.151	257 D	180	3.64	2.49	2.15	2.01	<0.0340	<0.0170	44.4 D	37.6	9.21	1.75 J	<0.0130	<0.0130
	MW-68-20211708	8/17/2021	1.18 D	0.752 D	**2500 B, D**	**2420 D**	5.76 D	5.05 D	0.608 J, D	0.628 J, D	<0.0440	<0.0440	34.2 D	36.0 D	19.6 D	17.6 D	0.0210 J	**<0.100 B***
	MW-68-20211711	11/17/2021	1.52	0.0730 J	25.0	3.77 J*	1.21	0.647	2.00	1.58 J*	<0.0220	<0.0220	100	95.9	5.82 J	<2.92	<0.0130	0.0150 J
MW-69	MW-69-20211102	2/11/2021	0.135	<0.0680	**2310 D**	**2270 D**	0.627	0.418 J	0.478 J	<0.440	<0.0170	<0.0170	8.09	0.668	3.84 J	3.08 J	<0.0130	<0.0130
	MW-69-20212605	5/26/2021	0.0720 J	<0.103 J*	1670 D	1580 D	0.867	0.591	0.221 J	<0.179	<0.0220	<0.0220	7.53	0.404 D	<2.92	<2.92	**<0.0500 J***	**<0.0500 J***
	MW-69-20212408	8/24/2021	0.162	<0.0513	1300 D	1130 D	0.502 J*	0.139 J	<0.179	<0.179	<0.0220	<0.0220	8.54	0.675	<2.92	<2.92	<0.0130	<0.0130
	MW-69-20210212	12/2/2021	0.121	<0.0513	728 D	660 D	0.248 J	0.148 J	0.380 J	<0.179	<0.0220	<0.0220	12.2	1.46	<2.92	<2.92	<0.0130	<0.0130
MW-70	MW-70-20211102	2/11/2021	0.660 D	<0.340	**2080 D**	**2120 D**	2.99 J, D	0.705 J, D	6.12 D	7.23 D	<0.0850	<0.0850	<0.200	<0.800	<8.20	<4.10	<0.0130	<0.0130
	MW-70-20212605	5/26/2021	<0.513	<0.513	**2170 D**	**2160 D**	2.20 J, D	<0.792	3.91 J, D	2.75 J, D	0.400 J, D	<0.220	3.42 D	2.77 D	<29.2	<29.2	**<0.0500 J***	**<0.0500 J***
	MW-70-20212308	8/23/2021	0.132	<0.0513	1170 B, D	1160 D	0.273 J	0.109 J	0.271 J	<0.179	<0.0220	<0.0220	8.86 D	0.640	<2.92	<2.92	0.0180 J	<0.0130 B*
	MW-70-20213011	11/30/2021	0.632	<0.0513	118	103	2.54	1.60	0.686	0.379 J	<0.0220	<0.0220	7.19	6.09	8.14	6.39	<0.0130	<0.0130
MW-71	MW-71-20211702	2/17/2021	0.504 D	<0.0680	427 D	395 D	0.558 JH*	0.171 J	<0.880	<0.440	<0.0340	<0.0170	3.36 D	0.301	2.51 J, D	1.12 J	<0.0130	<0.0130
	MW-71-20211805	5/18/2021	0.268	<0.0513	528 D	509 D	0.405 J	0.182 J	<0.179	<0.179	<0.0220	<0.0220	3.36	0.432	<2.92	<2.92	<0.0130	<0.0130
	MW-71-20211708	8/17/2021	0.0750 J	<0.0513	456 B, D	460 D	0.150 J	0.0900 J	<0.179	<0.179	<0.0220	<0.0220	4.00 D	0.442	<2.92	<2.92	0.0160 J	<0.0130
	MW-71-20211611	11/16/2021	0.0690 J	<0.0513	261	311 D	0.218 J	0.138 J	<0.179	0.662 J, D	<0.0220	<0.0220	1.29	0.221	<2.92	<5.84	<0.0130	<0.0130
MW-72	MW-72-20211602	2/16/2021	<0.0680	<0.0680	31.7 D	28.5 D	1.16	1.01	<0.440	<0.440	<0.0340	<0.0170	1.46 D	1.16 D	0.890 J	0.828 J	<0.0130	<0.0130
	MW-72-20212105	5/21/2021	0.137	<0.0513	315 D	324 D	5.44	5.27	0.301 J	<0.179	<0.0220	<0.0220	9.21 D	7.51	<2.92	<2.92	<0.0130	**<0.132 B***
	MW-72-20212608	8/26/2021	0.0880 J	<0.0513	630 D	580 D	3.62	3.52	0.210 J	<0.179	<0.0220	<0.0220	9.61	7.75	<2.92	<2.92	**<0.100 B***	<0.0130
	MW-72-20211711	11/17/2021	0.0560 J	<0.0513	5.50	3.42	1.28	1.09	<0.179	<0.179	<0.0220	<0.0220	1.76	1.34	<2.92	<2.92	<0.0130	<0.0130
MW-73	MW-73-20212202	2/22/2021	0.0960 J	<0.0680	1490 D	1350 D	**23.4**	**21.3**	<0.440	<0.440	0.0920 J, D	<0.0340	2.31 D	0.266 J, D	28.0	26.4	<0.0130	<0.0130
	MW-73-20212005	5/20/2021	0.148 J, D	<0.0513	853 D	926 D	**8.35 D**	7.88	1.24 D	<0.179	0.0860 J, D	<0.0220	4.05 D	0.640 J, D	22.4 D	5.76	<0.0130	**<0.100 B***
	MW-73-20212708	8/27/2021	0.464	<0.0513	542 D	696 D	1.80	1.17	0.368 J	<0.179	0.134 J	<0.0220	8.42	0.112 J	5.01 J	3.66 J	**<0.100 B***	**<0.100 B***
	MW-73-20212911	11/29/2021	0.321	<0.0513	560 D	538 D	**9.40**	**8.64**	0.508	<0.179	0.0970 J	<0.0220	4.91	0.258	5.23 J	4.03 J	<0.0130	<0.0130
MW-74	MW-74-20212202	2/22/2021	<0.0680	<0.0680	**4270 D**	**3870 D**	1.40	1.21	<0.440	<0.440	<0.0340	<0.0340	4.24 D	1.38 D	2.31 J	0.825 J	<0.0130	<0.0130
	MW-74-20212005	5/20/2021	<0.0513	<0.0513	**3390 D**	**3250 D**	0.836	0.623	0.286 J	<0.179	<0.0220	<0.0220	3.85 D	0.690 J, D	<2.92	<2.92	<0.0130	**<0.100 B***
	MW-74-20210209	9/2/2021	0.0560 J	<0.0513	**3230 D**	**3200 D**	0.918	0.685	<0.179	<0.179	<0.0220	<0.0220	3.07	2.23	<2.92	<2.92	<0.0130	**<0.100 B***
	MW-74-20212411	11/24/2021	0.0590 J	<0.0513	**3500 D**	**3370 D**	0.694	0.405 J	0.294 J*	0.266 J*	<0.0220	<0.0220	4.52	0.441	<2.92	<2.92	<0.0130	<0.0130 B*

Table 30B: Metals in Groundwater

			Metals (ug/L)															
			SW6020/6020B														EPA 7470A	
			Lead		Manganese		Nickel		Selenium		Silver		Vanadium		Zinc		Mercury	
			5.6		2000		8.2		71		1.9		144		81		0.025	
Sample Location	Sample Name	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-75	MW-75-20211802	2/18/2021	<0.0680	<0.0680	—	—	7.86	7.25	<0.440	<0.440	<0.0340	<0.0340	0.576 D	0.0900 J, D	5.49 J*	2.39 J	<0.0130	<0.0130
	MW-75-20212405	5/24/2021	0.125	<0.0513	1790 D	1750 D	4.05	3.76	<0.179	<0.358	<0.0220	<0.0220	0.319	<0.0556	3.69 J	3.84 J	<0.0130	**<0.0500 J***
	MW-101-20213108 (DUP)	8/31/2021	<0.0513	<0.0513	719 D	688 D	5.16	4.84	<0.179	<0.179	<0.0220	<0.0220	0.430 J*	<0.0556	<2.92	<2.92	**<0.100 B***	**<0.100 B***
	MW-75-20213108	8/31/2021	<0.0513	<0.0513	737 D	715 D	5.10	4.75	<0.179	0.370 J	<0.0220	<0.0220	0.284 J*	<0.0556	<2.92	<2.92	**<0.100 B***	**<0.100 B***
	MW-75-20211211	11/12/2021	<0.0513	<0.0513	585 D	582 D	**9.33**	**8.37**	<0.179	<0.179	<0.0220	<0.0220	0.736	0.187 J	<2.92	<2.92	**<0.100 B***	<0.0130
MW-76	MW-100-20211002 (DUP)	2/10/2021	<0.0680	<0.0680	639 D	595 B, D	0.0930 J	0.114 J	<0.440	<0.440	<0.0170	<0.0170	0.832 D	0.101 J	<0.820	<0.820	<0.0130	<0.0130
	MW-76-20211002	2/10/2021	<0.0680	<0.0680	641 D	592 B, D	0.101 J	0.113 J	<0.440	<0.440	<0.0170	<0.0170	0.844 D	0.0980 J	<0.820	<0.820	<0.0130	<0.0130
	MW-76-20211305	5/13/2021	0.294	<0.0513	722 D	677 D	0.818	0.157 J	<0.179	<0.179	<0.0220	<0.0220	4.01	0.0900 J	<2.92	<2.92	<0.0130	<0.0130
	MW-76-20211708	8/17/2021	0.0610 J	<0.0513	591 B, D	529 D	0.197 J	<0.0792	<0.179	<0.179	<0.0220	<0.0220	1.71 D	<0.0556	<2.92	<2.92	0.0160 J	**<0.100 B***
	MW-76-20211811	11/18/2021	<0.0513	<0.103	601 D	638 D	<0.0792	<0.0792	<0.179	<0.179	<0.0220	<0.0440	1.07	0.192 J, D	<2.92	<5.84	<0.0130	<0.0130
Decon	Decon-20212605	5/26/2021	<0.0513	<0.0513	0.162 J	<0.142	<0.0792	<0.0792	<0.179	<0.179	<0.0220	0.0260 J	<0.0556	<0.0556	<2.92	<2.92	**<0.0500 J***	**<0.0500 J***
Equipment Blank Samples	EB-2-20211102	2/11/2021	<0.0680	<0.0680	0.458 J	0.194 J	0.0740 J	0.255 J	<0.440	<0.440	<0.0170	<0.0170	<0.0400	<0.0400	<0.820	<0.820	<0.0130	<0.0130
	EB-1-20211705	5/17/2021	<0.0513	<0.0513	<0.142	0.161 J	<0.0792	<0.0792	<0.179	<0.179	<0.0220	<0.0220	<0.0556	<0.0556	<2.92	<2.92	**0.0280 J**	—
	EB-2-20212505	5/25/2021	<0.0513	<0.0513	<0.142	<0.142	<0.0792	<0.0792	<0.179	<0.179	<0.0220	<0.0220	<0.0556	<0.0556	<2.92	<2.92	<0.0130	**<0.0500 J***
	EB-1-20212008	8/20/2021	<0.0513	<0.0513	0.213 J	<0.142	<0.0792	<0.0792	<0.179	<0.179	<0.0220	<0.0220	<0.0556	<0.0556	<2.92	<2.92	<0.0130	<0.0130
	EB-2-20212508	8/25/2021	<0.0513	<0.0513	0.200 J	<0.142	<0.0792	<0.0792	<0.179	<0.179	<0.0220	<0.0220	<0.0556	<0.0556	<2.92	<2.92	<0.0130	<0.0130
	EB-3-20210209	9/2/2021	<0.0513	<0.0513	<0.142	1.22 JH*	<0.0792	<0.0792	<0.179	<0.179	<0.0220	<0.0220	<0.0556	<0.0556	<2.92	<2.92	<0.0130	**<0.100 B***
	EB-1-20211011	11/10/2021	<0.0513	<0.0513	<0.142	<0.142	<0.0792	<0.0792	—	<0.179	<0.0220	<0.0220	<0.0556	<0.0556	<2.92	<2.92	**<0.100 B***	**<0.100 B***
	EB-2-20211611	11/16/2021	<0.0513	<0.0513	<0.142	<0.142	<0.0792	<0.0792	0.300 J	<0.179	<0.0220	<0.0220	<0.0556	0.0930 J	<2.92	<2.92	<0.0130	<0.0130
	EB-3-20212211	11/22/2021	<0.0513	<0.0513	0.149 J	<0.142	<0.0792	<0.0792	<0.179	<0.179	<0.0220	<0.0220	<0.0556	<0.0556	<2.92	<2.92	<0.0130	<0.0130

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

NA No applicable regulatory limit exists for the associated analyte.

— Not analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

B* Result is included in the same preparatory batch as a blank detection for the associated analyte. Result is considered non-detect. Flag applied by Shannon & Wilson (*).

D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.

J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*).

JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).

DUP = field duplicate; µg/L = micrograms per liter

Table 31: Per- and Polyfluoroalkyl Substances in Groundwater

Sample Location	Sample Name	Sample Date	PFAS UCMR-6 (ng/L) EPA 537(Mod) Perfluorooctanesulfonic Acid (PFOS) 1,100	Perfluorooctanoic Acid (PFOA) 120,000	Perfluorobutanesulfonic Acid (PFBS) 130,000,000	Perfluorohexanesulfonic Acid (PFHxS) 10,000	Perfluoroheptanoic Acid (PFHpA) No Screening Level	Perfluorononanoic Acid (PFNA) 10,000
Upgradient Wells								
MW-8	MW-8-20211602	02/16/2021	46	3.2	2.2	27	1.2 J	<1.8
	MW-8-20211711	11/17/2021	140	3.7 J	2.6 J	32	<1.1	<1.2
MW-71	MW-71-20211602	02/17/2021	7.5	2.7	1.1 J	2.4	1.3 J	0.47 J
	MW-71-20211611	11/16/2021	5.5	3.4	0.82 J	2.2	1.7	<0.23
MW-72	MW-72-20211602	02/16/2021	3.6	2.0	0.67 J	3.0	0.45 J	<1.8
	MW-72-20211711	11/17/2021	6.8	3.0	1.3 J	4.7	0.67 J	<0.24
Area of AFFF Use								
MW-36	MW-36-20210312	12/03/2021	52	6.7	15	110	10	<0.26
	MW-200-20210312 (DUP)	12/03/2021	60	7.1	16	110	9.5	<0.26
MW-60	MW-60-20211602	02/17/2021	**4,100**	180	110	2,100	190	<1.8
	MW-60-20211711	11/17/2021	**1,200**	61	56	840	39	<2.6
MW-63	MW-63-20211702	02/17/2021	190	18	6.4	150	6.4	<1.8
	MW-103-20211702 (DUP)	02/17/2021	190	19	6.4	160	5.9	<1.8
	MW-63-20211611	11/16/2021	54	10	6.2	76	5.7	<0.25
MW-64	MW-64-20211602	02/16/2021	730	14	14	150	11	0.48 J
	MW-64-20211611	11/16/2021	700	13	10	140	6.5 J	<1.3
MW-74	MW-74-20210312	12/03/2021	**15,000**	350	380	3,800	140	0.49 J
Downgradient Wells								
MW-43	MW-43-20211602	02/17/2021	79	50	190	730	31	<1.8
	MW-43-20211611	11/16/2021	60	65	170	860	36	<0.25
MW-68	MW-68-20211602	02/16/2021	67 JH*	22	3.7	34	4.2	2.3
	MW-68-20211711	11/17/2021	8.0	2.2	<0.18	2.5	<0.22	<0.24
Equipment Blank Samples	EB-1-20211702	02/17/2021	< 0.48	<0.76	<0.18	<0.51	<0.22	<0.24
	EB-2-20211611	11/16/2021	<0.77	<0.49	<0.18	<0.52	<0.23	<0.24
	EB-2-20210312	12/03/2021	<0.51	<0.80	<0.19	<0.54	<0.23	<0.25
Field Blank Samples	FB-1-20211702	02/17/2021	< 0.48	<0.76	<0.18	<0.51	<0.22	<0.24
	FB-1-20211711	11/17/2021	<0.48	<0.75	<0.18	<0.50	<0.22	<0.24
	FB-2-20210312	12/03/2021	<0.52	<0.81	<0.19	<0.55	<0.24	<0.26

NOTES:

Results reported in nanograms per liter (ng/L).
Results reported from Eurofins Environment Testing America.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting limit.
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

< Analyte was not detected; reported as less than the detection limit (<DL).

J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.

AFFF = Aqueous Film Forming Foam; DUP = field duplicate; EPA = Environmental Protection Agency; ng/L = nanogram per liter; PFAS = per- and polyfluoroalklyl substances; UCMR = Unregulated Contaminant Monitoring Rule.
PFBS = Perfluorobutanesulfonic acid; PFHpA = Perfluoroheptanoic Acid; PFHxS = Perfluorohexanesulfonic Acid; PFNS = Perfluorononanoic Acid; PFOA = Perfluorooctanoic Acid ; PFOS = Perfluorooctanesulfonic Acid;

Table 32: Natural Attenuation Parameters in Groundwater

			Natural Attenuation Parameters											
			Field Reading	SW6020B	SM 3500-Fe B-97		EPA 300.0			SM 4500-SO3 B-00	EPA RSK-175			
Sample Location	Sample Name	Sample Date	Dissolved Oxygen	Dissolved Manganese (Mn^{2+})	Ferrous Iron (Fe^{2+})	Chloride (Cl^-)	Nitrate - N (NO_{3-})	Nitrite - N	Sulfate (SO_4^{2-})	Sulfite (SO_3^{2-})	Acetylene	Ethane	Ethylene	Methane (CH_4)
			NA	2000	300*	NA	1.0E+04	1.0E+03	2.5E+05	NA	NA	NA	NA	NA
			mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Area 1 LNAPL Plume - Upgradient Wells														
MW-23	MW-23-20211202	2/12/2021	0.00	1180 D	37.1 D	47.6 D	<0.100	<0.100	4.58	<1.40 J*	<1.06	<0.39	<0.24	366
	MW-23-20211405	5/14/2021	0.00	1620 D	47.2 D	53.7 D	<0.100	<0.100	7.95	—	—	<0.39	<0.24	507
	MW-23-20212508	8/25/2021	0.00	1550 D	48.5 D	—	66.0 JL*	<0.100	<0.100	4.60 D	<1.06	<0.39	<0.24	248
	MW-23-20211911	11/19/2021	0.00	—	16.3 JL*	30.5 D	<0.100	<0.100	7.81 D	<1.40 J*	<1.06	<0.39	<0.24	55.7
MW-58	MW-58-20211802	2/18/2021	0.65	—	1.04	30.9 D	1.52	<0.100	91.1 D	<1.40 J*	—	—	—	—
	MW-58-20211705	5/17/2021	0.00	882 D	54.8 D	41.1 D	<0.100 J*	<0.100 J*	9.40 D	—	—	<0.39	<0.24	2630
	MW-58-20212508	8/25/2021	0.00	1560 D	97.9 D	—	49.0 JL*	<0.100	<0.100	24.3 D	<1.06	5.96	<0.24	7070
	MW-58-20211211	11/12/2021	0.00	1500 D	84.7 D	46.7 D	<0.100 J*	<0.100 J*	4.96	<1.40 J*	<1.06	4.60	<0.24	5060
Area 1 LNAPL Plume - Downgradient Wells														
MW-56	MW-56-20211002	2/10/2021	0.00	546 B, D	19.7 D	3.44	<0.100	<0.100	1.65	<1.40 J*	<1.06	<0.39	<0.24	5670
	MW-56-20211705	5/17/2021	0.00	620 D	29.2 D	3.66	<0.100	<0.100	<0.100	—	—	<0.39	<0.24	6350
	MW-56-20213008	8/30/2021	0.00	525 D	35.8 D	—	3.93	<0.100	<0.100	0.134	<1.06	<0.39	<0.24	5580
	MW-56-20212211	11/22/2021	0.00	448 D	21.7 D	2.73	<0.100	<0.100	0.353	<1.40 J*	<1.06	<0.39	<0.24	5020
MW-30	MW-30-20211802	2/18/2021	0.00	1270 D	58.9 D	7.26	<0.100	<0.100	117 D	<1.40 J*	—	—	—	—
	MW-30-20211905	5/19/2021	0.00	596 D	25.9 D	6.10	<0.100 J*	<0.100 J*	49.8 D	<1.40 J*	—	<0.39	<0.24	882
	MW-30-20212008	8/20/2021	0.00	647 D	24.6 D	—	6.43	<0.100	<0.100 J*	40.8 B, D	<1.06	<0.39	<0.24	1110
	MW-30-20211211	11/12/2021	0.00	947 D	40.2 D	7.04	<0.100	<0.100	55.2 D	<1.40 J*	<1.06 J*	0.39 J*	0.24 J*	1280 JL*
Area 2 LNAPL Plume - Upgradient Wells														
MW-14	MW-14-20211902	2/19/2021	0.04	59.3 D	1.64	9.29	0.741	<0.100	8.77	<1.40 J*	—	—	—	—
	MW-14-20211405	5/14/2021	0.00	164 D	12.0 D	12.5 D	<0.100	<0.100	3.63	—	—	<0.39	<	1030
	MW-14-20212608	8/26/2021	0.00	743 D	20.8 JL*	—	10.3 D	<0.100	<0.100 J*	4.55	<1.06	<0.39	<	1440
	MW-14-20212311	11/23/2021	0.00	522 D	8.96 D	7.89	0.206	<0.100	6.31	<1.40 J*	<1.06	<0.39	<	746
MW-15	MW-15-20211902	2/19/2021	1.38	—	<0.0400	1.22	0.972	<0.100	8.92	<1.40 J*	—	—	—	—
	MW-15-20211405	5/14/2021	0.21	—	0.0550	2.60	1.37	<0.100	9.11 D	—	—	<0.39	<	586
	MW-15-20212008	8/20/2021	0.00	4.88	0.0550	—	3.05	2.46	<0.100	19.3 B, D	<1.06	<0.39	<	97.8
	MW-15-20211911	11/19/2021	2.27	—	0.0500 JL*	0.787	0.387	<0.100	6.48	<1.40 J*	<1.06	<0.39	<	1.96
Area 2 LNAPL Plume - Downgradient Wells														
MW-36	MW-36-20212202	2/22/2021	0.00	**2060 D**	17.3 D	5.91	0.157	<0.100	6.75	<1.40 J*	—	—	—	—
	MW-36-20211705	5/17/2021	0.00	**2830 D**	28.7 D	4.54	<0.100 J*	<0.100 J*	1.08	—	—	<0.39	<0.24	6220
	MW-36-20211808	8/18/2021	0.00	**2940 D**	33.6 D	—	4.65	<0.100	<0.100	1.26 J*	<1.06	<0.39	<0.24	5190
	MW-36-20211211	11/12/2021	0.00	**2890 D**	32.6 D	4.85	<0.100 J*	<0.100 J*	<0.100	<1.40 J*	<1.06	<0.39	<0.24	7580

Table 32: Natural Attenuation Parameters in Groundwater

			Natural Attenuation Parameters											
			Field Reading	SW6020B	SM 3500-Fe B-97		EPA 300.0			SM 4500-SO3 B-00	EPA RSK-175			
Sample Location	Sample Name	Sample Date	Dissolved Oxygen	Dissolved Manganese (Mn^{2+})	Ferrous Iron (Fe^{2+})	Chloride (Cl^-)	Nitrate - N (NO_{3-})	Nitrite - N	Sulfate (SO_4^{2-})	Sulfite (SO_3^{2-})	Acetylene	Ethane	Ethylene	Methane (CH_4)
			NA	2000	300*	NA	1.0E+04	1.0E+03	2.5E+05	NA	NA	NA	NA	NA
			mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
MW-60	MW-60-20211702	2/17/2021	0.00	1190 D	36.9 D	12.2 D	0.642	<0.100	5.09	<1.40 J*	—	—	—	—
	MW-60-20211705	5/17/2021	0.00	1160 D	54.0 D	11.6 D	<0.100 J*	<0.100 J*	1.37 D	—	—	<0.39	<0.24	8940
	MW-60-20210109	9/1/2021	0.00	1070 D	59.0 D	—	10.4 D	<0.100	<0.100	<0.500	<1.06	<0.39	<0.24	9330
	MW-60-20211711	11/17/2021	0.00	852 D	35.1 JL*	10.8 D	<0.100	<0.100	0.164	<1.40 J*	<1.06	<0.39	<0.24	6680

NOTES:

Results reported from Analytical Resources, LLC.

Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the reporting

Pink shading with bold text indicates an exceedance of the screening level.

Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— No analyzed.

< Analyte was not detected; reported as less than the detection limit (<DL).

J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).

JL* Estimated concentration, biased low due to quality control failures. Flag applied by Shannon & Wilson (*).

D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.

EPA = Environmental Protection Agency; LNAPL = light nonaqueous phase liquid; µg/L = micrograms per liter; mg/L = milligrams per liter

Table 33: Other Analyzed Parameters in Groundwater

			SM 2340 B-97	SW6010/6020	
			Hardness (mg/L $CaCO_3$)	Calcium (mg/L)	Magnesium (mg/L)
Sample Location	Sample Name	Sample Date	NA	NA	NA
MW-14	MW-14-20212608	8/26/2021	<1.40 J*	—	—
MW-15	MW-15-20212008	8/20/2021	<1.40 J*	—	—
MW-23	MW-23-20212508	8/25/2021	<1.40 J*	—	—
MW-30	MW-30-20212008	8/20/2021	<1.40 J*	—	—
MW-36	MW-36-20211808	8/18/2021	<1.40 J*	—	—
MW-53	MW-53-20212202	2/22/2021	112	14.9 D	18.3 D
	MW-53-20212505	5/25/2021	53.1	—	12900
MW-56	MW-56-20213008	8/30/2021	<1.40 J*	—	—
MW-58	MW-58-20212508	8/25/2021	<1.40 J*	—	—
MW-60	MW-60-20210109	9/1/2021	<1.40 J*	—	—
MW-65	MW-65-20212502	2/25/2021	518	82.4 D	75.8 D
MW-68	MW-68-20211708	8/17/2021		29.1	19.3
	MW-68-20211711	11/17/2021	106	41.7	0.550
MW-69	MW-69-20211102	2/11/2021	215	52.7	20.3
	MW-69-20212605	5/26/2021	191	—	14800

NOTES:
Results reported from Analytical Resources, LLC.
— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson (*).
CaCO3 = calcium carbonate; mg/L = milligrams per liter

Table 34: Field Sampling Parameter Measurements

Sample Location	Quarter	Date and Time	Gallons Bailed	pH	Temperature (Celsius)	Conductivity (µmhos/cm)	Salinity (ppt)	TDS (g/L)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
MW-3	Q1	2/19/21 9:30 AM	0.75	7.94	11.19	0.268	0.1	0.174	0	4.05	98
	Q2	5/28/21 11:28 AM	3.25	6.96	16.28	0.265	0.1	0.182	9.8	2.24	156
	Q3	8/30/21 8:46 AM	0.7	6.62	16.72	0.33	0.2	0.214	0	0	209
	Q4	11/24/21 10:59 AM	2.2	7.01	12.38	0.27	0.1	0.176	0	3.35	-8
MW-4	Q1	2/19/21 8:36 AM	0.7	7.59	12.44	0.716	0.3	0.458	0	4.7	74
	Q2	5/26/21 11:19 AM	2	7.22	15.93	0.512	-	0.328	0	0	-27
	Q3	8/30/21 9:40 AM	1.1	6.97	16.33	0.625	0.3	0.4	0	0	62
	Q4	11/24/21 12:31 PM	4.4	6.79	13.71	0.456	0.2	0.296	0	0.55	34
MW-6	Q1	2/25/21 9:50 AM	0.8	7.3	11.38	0.338	0.2	0.22	0	0	-5
	Q2	5/13/21 2:49 PM	1.6	7.04	14.06	0.377	0.2	0.245	12.8	0	-116
	Q3	9/2/21 11:45 AM	1.75	6.78	17.07	0.455	0.2	0.295	0	0	-32
	Q4	11/29/21 2:58 PM	1.15	6.73	13.86	0.257	0.1	0.167	0	0	12
MW-7	Q1	2/23/21 2:45 PM	1.75	6.3	12.56	0.149	0.1	0.097	0	0.68	164
	Q2	5/27/21 10:50 AM	0	6.18	16.59	0.211	0.1	0.137	91.5	0	167
	Q3	8/26/21 8:56 AM	0.75	5.83	16.09	0.226	0.1	0.147	0	0	213
	Q4	11/19/21 11:56 AM	0.85	5.11	13.96	0.165	0.1	0.107	0	0	127
MW-8	Q1	2/16/21 8:53 AM	2	6.48	13.07	0.248	0.1	0	0	4.04	198
	Q2	5/26/21 10:07 AM	7	6.79	16.3	0.456	-	0.297	2.5	0.62	17
	Q3	8/30/21 10:36 AM	1.8	6.47	16.57	0.524	0.3	0.335	0	0	95
	Q4	11/17/21 1:07 PM	2.5	6.22	16.51	0.362	0.2	0.236	0	0.61	34
MW-9	Q1	2/18/21 8:37 AM	0.75	6.95	13.82	0.607	0.3	0.388	0	0	5
	Q2	5/19/21 10:40 AM	2	6.67	14.22	0.449	0.2	0.273	30.3	0	3
	Q3	8/31/21 9:50 AM	2.5	6.46	15.87	0.5	0.2	0.32	0	0	191
	Q4	11/10/21 10:26 AM	2.6	5.65	15.05	0.339	0.2	0.22	10.3	0	78
MW-10R	Q1	44246.57574	2.5	7.66	12.62	0.528	0.3	0.338	0	0.16	64
	Q2	44341.62447	3.3	6.63	16.72	0.52	0.3	0.333	0	1.01	33
	Q3	44439.36334	0.7	6.27	18.84	0.663	0.3	0.425	0	0.39	226
	Q4	44523.45799	1.5	6.27	15.02	0.368	0.2	0.239	0	0.18	82
MW-11	Q1	2/19/21 10:52 AM	2.7	7.28	14.28	0.306	0.1	0.199	0	0	18
	Q2	5/25/21 4:23 PM	3.5	6.71	17.39	0.382	0.2	0.248	17.9	0	-56
	Q3	8/26/21 12:20 PM	2.6	6.46	16.93	0.425	0.2	0.276	0	0	32
	Q4	11/23/21 12:46 PM	1.6	6.25	15.09	0.345	0.2	0.224	0	0	55
MW-13R	Q1	2/25/21 12:25 PM	0.5	7.8	10.2	0.186	0.1	0.121	0	0	42
	Q3	8/27/21 10:53 AM	3.4	6.4	15.06	0.398	0.2	0.259	0	0	-19

Table 34: Field Sampling Parameter Measurements

Sample Location	Quarter	Date and Time	Gallons Bailed	pH	Temperature (Celsius)	Conductivity (µmhos/cm)	Salinity (ppt)	TDS (g/L)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
MW-14	Q1	2/19/21 12:15 PM	2.9	7.79	12.23	0.426	0.2	0.277	0	0.04	46
	Q2	5/14/21 12:59 PM	3.2	6.81	15.08	0.364	0.2	0.237	0.2	0	-60
	Q3	8/26/21 1:09 PM	2.25	6.64	16.34	0.419	0.2	0.273	0	0	-29
	Q4	11/23/21 9:22 AM	1.5	6.33	13.27	0.375	0.2	0.244	0	0	130
MW-15	Q1	2/19/21 3:03 PM	2.1	6.79	11.51	0.236	0.1	0.153	0	1.38	88
	Q2	5/14/21 2:02 PM	3.1	6.62	15.12	0.342	0.2	0.222	0	0.21	121
	Q3	8/20/21 3:10 PM	0.75	6.28	16.66	0.437	0.2	0.284	0	0.06	110
	Q4	11/19/21 10:42 AM	1.1	5.35	13.85	0.167	0.1	0.108	0	2.27	97
MW-23	Q1	2/12/21 3:33 PM	2.6	5.59	13.76	1.1	-	0	-	0	-39
	Q2	5/14/21 11:44 AM	1.25	6.59	15.06	0.592	0.3	0.379	0	0	-73
	Q3	8/25/21 1:26 PM	1.5	6.18	17.35	0.676	0.3	0.433	0	0	26
	Q4	11/19/21 9:26 AM	1.45	5.51	13.86	0.326	0.2	0.212	0	0	103
MW-24	Q1	2/11/21 4:11 PM	1	8.2	12.3	0.933	-	0	-	0	-110
	Q2	5/18/21 10:39 AM	1.25	6.82	15.22	0.855	0.4	0.547	26	0	-117
	Q3	8/25/21 8:54 AM	0.4	5.85	17.52	0.984	0.5	0.63	0	0	234
	Q4	12/1/21 9:39 AM	1	6.64	15.36	0.835	0.4	0.535	0	0	-81
MW-25	Q1	2/11/21 9:24 AM	1.6	8.2	11.9	0.235	-	0	-	0.29	-58
	Q2	5/18/21 4:25 PM	1.2	6.83	17.13	0.207	0.1	0.135	35.2	0.17	-54
	Q3	8/24/21 9:08 AM	0.75	6.56	19.65	0.283	0.1	0.184	1.7	0.04	-18
	Q4	11/10/21 12:02 PM	2.9	6.05	17.49	0.215	0.1	0.14	0.2	1.39	-4
MW-30	Q1	2/18/21 11:49 AM	0.75	7.28	10.27	0.684	0.3	0.437	0	0	-36
	Q2	5/19/21 12:40 PM	1.25	6.71	12.45	0.379	0.2	0.246	0	0	-38
	Q3	8/20/21 1:38 PM	0.5	6.47	17.72	0.396	0.2	0.257	0	0	-48
	Q4	11/12/21 1:33 PM	1.25	6.39	14.56	0.422	0.2	0.275	12.2	0	-40
MW-31	Q1	2/24/21 2:04 PM	0.8	7.42	15.43	0.616	0.3	0.394	0	0	-96
	Q2	5/18/21 1:29 PM	1.85	6.97	16.32	0.48	0.2	0.312	27.1	0	-96
	Q3	8/27/21 11:46 AM	1.25	6.6	16.36	0.457	0.2	0.297	0	0	-12
	Q4	11/18/21 12:12 PM	1.9	6.07	15.05	0.427	0.2	0.277	0	0	-80
MW-32	Q1	2/22/21 3:04 PM	1.25	7.32	12.52	0.367	0.2	0.239	0	3.87	63
	Q2	5/24/21 2:34 PM	2.3	7.25	13.88	0.453	0.2	0.295	10.3	0	-161
	Q3	8/26/21 9:33 AM	0.6	6.68	16.09	0.427	0.2	0.278	0	0	-14
	Q4	12/3/21 9:39 AM	3.15	6.41	13.13	0.31	0.1	0.201	0	0.31	149

Table 34: Field Sampling Parameter Measurements

Sample Location	Quarter	Date and Time	Gallons Bailed	pH	Temperature (Celsius)	Conductivity (µmhos/cm)	Salinity (ppt)	TDS (g/L)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
MW-34	Q1	2/22/21 3:55 PM	0.8	7.26	12.43	0.441	0.2	0.287	0	0	81
	Q2	5/14/21 2:47 PM	1.8	6.42	14.85	0.251	0.1	0.163	35.8	0	54
	Q3	8/26/21 10:28 AM	0.75	6.18	15.82	0.338	0.2	0.22	0	0	87
	Q4	12/2/21 10:28 AM	0.5	6.14	12.99	0.333	0.2	0.217	0	0	213
MW-36	Q1	2/22/21 2:00 PM	0.9	7.26	12.9	0.434	0.2	0.282	0	0	45
	Q2	5/17/21 2:15 PM	2.5	7	13.69	0.469	0.2	0.305	0.2	0	-102
	Q3	8/18/21 3:52 PM	1.7	6.4	18.57	0.466	0.2	0.303	1.3	0	-64
	Q4	11/12/21 12:35 PM	1.3	6.64	13.82	0.479	0.2	0.312	6.2	0	-98
MW-37	Q1	2/23/21 1:22 PM	0.7	8.09	13.29	0.501	0.2	0.321	0	3.01	99
	Q2	5/21/21 12:20 PM	2.1	7.17	14.51	0.498	0.2	0.324	0	1.08	30
	Q3	9/2/21 10:52 AM	1.5	6.71	16.54	0.54	0.3	0.346	0	0	70
	Q4	12/3/21 11:10 AM	1.1	7.05	12.96	0.594	0.3	0.38	0	4.39	79
MW-38	Q1	2/23/21 12:32 PM	1.75	7.14	14.29	0.307	0.1	0.2	0	0.24	87
	Q2	5/21/21 11:31 AM	2.9	6.83	14.34	0.349	0.2	0.227	0	0.23	23
	Q3	8/18/21 2:11 PM	1	6.49	19.75	0.353	0.2	0.229	0	0.06	199
	Q4	11/9/21 1:24 PM	2.1	5.6	15.66	0.303	0.1	0.197	0	0.05	141
MW-39	Q1	2/24/21 9:27 AM	1.1	9.75	7.85	1.1	0.5	0.706	0	6.13	155
	Q2	5/28/21 12:29 PM	1	8.95	14.15	5.9	3.2	3.72	6.5	8.65	117
	Q3[1]	8/19/21 8:48 AM	-	-	-	-	-	-	-	-	-
	Q4	11/29/21 10:32 AM	2.5	9.15	12.24	2.63	1.4	1.68	39.6	10.79	125
MW-40	Q1	2/25/21 1:33 PM	1.5	7.29	12.98	0.495	0.2	0.322	0	0.24	48
	Q2	5/20/21 1:10 PM	1.8	7.08	13.67	0.502	0.2	0.321	0	0	-68
	Q3	9/1/21 1:12 PM	1	6.76	15.01	0.628	0.3	0.402	0	0	13
	Q4	11/11/21 9:51 AM	2.4	6.01	12.63	0.468	0.2	0.304	9.5	0	-53
MW-41	Q1	2/25/21 2:13 PM	0.9	7.54	13.51	0.57	0.3	0.365	0	0	-82
	Q2	5/20/21 12:31 PM	1.75	7.09	13.65	0.554	0.3	0.354	9.3	0	-103
	Q3	9/1/21 12:27 PM	1	6.78	14.22	0.623	0.3	0.399	0	0	6
	Q4	11/11/21 11:22 AM	4	6.71	13.3	0.477	0.2	0.31	1.9	0.03	-107
MW-42	Q1	2/23/21 10:06 AM	2	9.01	10.51	3.38	1.7	2.16	0	0.27	-39
	Q2	5/24/21 11:35 AM	3.2	8.36	11.87	2.98	1.5	1.91	4.1	0.08	-82
	Q3	8/18/21 10:16 AM	1.75	7.31	15.42	8.87	4.9	5.59	9.4	0	33
	Q4	11/29/21 11:44 AM	2.8	8.01	14.68	4.06	2.2	2.6	0	5.76	127

Table 34: Field Sampling Parameter Measurements

Sample Location	Quarter	Date and Time	Gallons Bailed	pH	Temperature (Celsius)	Conductivity (µmhos/cm)	Salinity (ppt)	TDS (g/L)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
MW-43	Q1	2/17/21 2:44 PM	1.2	7.18	11.96	0.616	0.3	0.394	0	0	-20
	Q2	5/24/21 10:28 AM	1.8	6.96	13.18	0.674	0.3	0.432	24.9	0	-60
	Q3	8/19/21 11:16 AM	3.7	6.62	15.2	0.642	0.3	0.411	152	0	-28
	Q4	11/16/21 9:43 AM	1.65	6.59	10.86	0.566	0.3	0.362	0	0	-2
MW-44	Q1	2/23/21 8:22 AM	0.8	7.73	11.19	30.8	18.8	18.8	0	0	-124
	Q2	5/24/21 9:38 AM	2.2	7.52	13.12	36.1	22.4	22	14.3	0	-122
	Q3	8/20/21 10:27 AM	0.9	7.15	14.63	26.7	16.2	16.5	0	0	17
	Q4	11/16/21 10:29 AM	1.7	7.18	10.99	34.3	21.1	21	0	0	-123
MW-45	Q1	2/24/21 1:12 PM	0.8	7.54	15.34	0.423	0.2	0.275	0	0	-68
	Q2	5/18/21 12:28 PM	1.3	7.27	16.24	0.326	0.2	0.212	33	4.67	45
	Q3	8/27/21 12:42 PM	1	6.67	16.11	0.424	0.2	0.276	0	0	25
	Q4	11/18/21 10:39 AM	1.1	6.06	14.64	0.378	0.2	0.246	0	0	-45
MW-46	Q1	2/24/21 12:08 PM	1.1	7.16	14.92	0.478	0.2	0.311	0	0	-79
	Q2	5/14/21 10:56 AM	1.5	6.92	15	0.449	0.2	0.292	0	0	-118
	Q3	8/17/21 1:55 PM	3.5	6.75	15.77	0.485	0.2	0.315	9.9	0	-94
	Q4	11/22/21 11:04 AM	2	5.88	14.99	0.418	0.2	0.272	0	0	36
MW-47	Q1	2/24/21 10:56 AM	0.5	7.47	12.47	0.741	0.4	0.474	0	0	80
	Q2	5/27/21 11:44 AM	15.1	6.99	16.8	0.549	0.3	0.351	38.7	0	73
	Q3	8/27/21 2:13 PM	2.5	6.62	17	0.67	0.3	0.429	0	0	22
	Q4	11/19/21 1:44 PM	1.25	5.89	13.81	0.768	0.4	0.492	0	0	95
MW-48	Q1	2/11/21 8:41 AM	1.1	7.98	12.56	0.265	-	0	-	0.26	-75
	Q2	5/18/21 3:58 PM	1.2	6.72	17.08	0.251	0.1	0.163	25.7	0	-40
	Q3	8/24/21 10:01 AM	0.4	6.5	21.05	0.322	0.2	0.21	0	0	-31
	Q4	11/9/21 12:05 PM	0.75	5.62	17.19	0.26	0.1	0.169	4.5	0	-33
MW-49	Q1	2/12/21 10:12 AM	3.3	4.71	10.39	0.575	-	0	-	3.25	214
	Q2	5/19/21 8:22 AM	3.6	6.17	12.91	0.279	0.1	0.181	0	0.67	181
	Q3	8/25/21 10:12 AM	0.8	6.07	15.69	0.281	0.1	0.182	33.4	0.07	110
	Q4	12/2/21 9:40 AM	1.8	6.34	12.06	0.146	0.1	0.095	0	4.55	208
MW-50	Q1	2/12/21 12:01 PM	1.1	6.19	12.69	0.949	-	0	-	0	-49
	Q2	5/21/21 8:35 AM	2.6	7.21	14.71	0.386	0.2	0.251	1.4	0	-17
	Q3	8/26/21 2:22 PM	1	6.95	16.68	0.396	0.2	0.258	0	0	44
	Q4	11/9/21 2:12 PM	0.75	6.08	14.1	0.342	0.2	0.222	9.5	0	-29

Table 34: Field Sampling Parameter Measurements

Sample Location	Quarter	Date and Time	Gallons Bailed	pH	Temperature (Celsius)	Conductivity (µmhos/cm)	Salinity (ppt)	TDS (g/L)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
MW-51	Q1	2/10/21 11:35 AM	2.25	8.59	14.61	0.314	-	0	-	0	-89
	Q2	5/21/21 10:26 AM	3.25	7.17	14.78	0.328	0.2	0.213	2.8	0	-64
	Q3	8/24/21 1:17 PM	1.4	6.91	17.57	0.279	0.1	0.181	2.9	0	-2
	Q4	12/2/21 12:13 PM	2.85	6.91	14.27	0.311	0.1	0.202	0	0	-56
MW-52	Q1	2/12/21 1:16 PM	2.2	5.77	12.92	3.6	-	0	-	0	-16
	Q2	5/26/21 12:07 PM	2	6.8	17.16	1.44	0.7	0.922	161	0	3
	Q3	8/27/21 3:14 PM	2	6.52	15.81	0.681	0.3	0.436	0	0	47
	Q4	12/1/21 11:25 AM	2.9	6.6	14.18	0.401	0.2	0.261	0	0	-11
MW-53	Q1	2/22/21 8:45 AM	3	6.86	13.42	0.482	0.2	0.313	0	1.44	48
	Q2	5/25/21 1:18 PM	1.75	6.38	16.69	0.351	0.2	0.228	0	0	112
	Q3	9/1/21 8:41 AM	0.75	5.99	17.7	0.637	0.3	0.408	0	0	200
	Q4	12/1/21 1:04 PM	3.7	6.35	16.77	1.33	0.7	0.851	4	0	10
MW-54	Q1	2/18/21 3:29 PM	1.8	8.31	10.51	0.842	0.4	0.539	0	3	-26
	Q2	5/24/21 12:27 PM	1.6	8.24	12.9	0.569	0.3	0.364	0	0.33	-37
	Q3	8/20/21 11:45 AM	0.5	7.5	18.21	1.17	0.6	0.749	0	0	106
	Q4	12/3/21 12:14 PM	1.1	7.06	13.11	0.421	0.2	0.274	0	2.93	81
MW-55	Q1	2/11/21 2:55 PM	1.1	7.86	11.3	0.192	-	0	-	2.04	24
	Q2	5/14/21 10:05 AM	3.4	6.81	15.68	0.166	0.1	0.108	177	0.86	4
	Q3	8/24/21 11:04 AM	1.4	6.53	19.93	0.273	0.1	0.177	57.1	0	-47
	Q4	11/18/21 1:36 PM	2.25	5.84	15.26	0.19	0.1	0.123	0	0	-33
MW-56	Q1	2/10/21 2:33 PM	1.1	7.9	13.23	0.317	-	0	-	0	-65
	Q2	5/17/21 9:11 AM	2.25	6.85	14.37	0.298	0.1	0.194	10	0	-100
	Q3	8/30/21 2:41 PM	2.8	6.61	16.26	0.345	0.2	0.224	0	0	-66
	Q4	11/22/21 12:12 PM	1.4	6.38	15.86	0.246	0.1	0.16	0	0	-54
MW-57	Q1	2/18/21 10:53 AM	1.25	7.46	10.13	0.591	0.3	0.378	0	0	-37
	Q2	5/19/21 9:15 AM	1.9	6.83	11.96	0.483	0.2	0.314	0	0	-44
	Q3	8/31/21 10:35 AM	1	6.22	15.32	0.766	0.4	0.49	0	0	131
	Q4	11/11/21 1:13 PM	2.75	5.65	13.8	0.511	0.2	0.327	29.1	0	-10
MW-58	Q1	2/18/21 9:50 AM	2.75	5.95	12.62	0.585	0.3	0.375	0	0.65	127
	Q2	5/17/21 11:16 AM	2.5	6.9	13.63	0.549	0.3	0.351	0.9	0	-109
	Q3	8/25/21 2:51 PM	1.35	6.61	15	0.794	0.4	0.508	0	0	-65
	Q4	11/12/21 9:33 AM	2.75	5.85	14.08	0.692	0.3	0.443	9	0	-84

Table 34: Field Sampling Parameter Measurements

Sample Location	Quarter	Date and Time	Gallons Bailed	pH	Temperature (Celsius)	Conductivity (µmhos/cm)	Salinity (ppt)	TDS (g/L)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
MW-59	Q1	2/12/21 11:01 AM	1.1	5.13	11.32	0.589	-	0	-	0	38
	Q2	5/18/21 11:38 AM	1.75	6.28	14.07	0.193	0.1	0.125	39.5	0	65
	Q3	8/25/21 11:10 AM	1.25	6.09	17.97	0.193	0.1	0.125	0	0	122
	Q4	11/30/21 1:15 PM	3.5	6.11	14.94	0.192	0.1	0.125	0	0	89
MW-60	Q1	2/17/21 10:33 AM	3	6.77	13.33	0.573	0.3	0.367	0	0	-100
	Q2	5/17/21 12:49 PM	2.4	6.99	13.44	0.545	0.3	0.349	7.2	0	-137
	Q3	9/1/21 2:09 PM	1	6.57	15.72	0.594	0.3	0.38	0	0	-37
	Q4	11/17/21 10:28 AM	3	6.66	12.78	0.431	0.2	0.28	42.1	0	-115
MW-61	Q1	2/22/21 12:59 PM	0.8	7.46	11.42	0.801	0.4	0.513	0	2.49	34
	Q2	5/21/21 1:51 PM	1.15	6.66	13.38	0.659	0.3	0.422	3.1	0	63
	Q3	9/2/21 3:50 PM	1.5	6.47	15.43	0.713	0.3	0.456	0	0	41
	Q4	12/1/21 2:25 PM	1.5	6.33	13.97	0.399	0.2	0.259	0	0	68
MW-62	Q1	2/18/21 2:13 PM	1.1	6.89	11.85	0.537	0.3	0.344	0	0	55
	Q2[2]	5/19/21 12:00 AM	-	-	-	-	-	-	-	-	-
	Q3	8/31/21 2:16 PM	1.1	5.9	16.14	0.9	0.4	0.576	0	0	118
	Q4	11/11/21 2:12 PM	1.8	5.89	13.78	0.753	0.4	0.482	1000	0	81
MW-63	Q1	2/17/21 8:50 AM	1.1	6.37	11.75	0.482	0.2	0.313	0	3.5	181
	Q2	5/20/21 11:14 AM	3.25	6.66	12.26	0.301	0.1	0.195	0	1.81	29
	Q3	9/1/21 10:20 AM	2.75	6.41	14.08	0.406	0.2	0.264	0	0	96
	Q4	11/16/21 1:36 PM	2.75	5.92	13	0.356	0.2	0.232	0	0	38
MW-64	Q1	2/16/21 12:52 PM	1.25	7.79	14.14	0.889	0.4	0.569	0	0	-111
	Q2	5/20/21 9:56 AM	2.4	7.16	13.89	1.17	0.6	0.752	0	0	-109
	Q3	9/1/21 11:20 AM	1.2	6.76	14.84	0.635	0.3	0.406	0	0	21
	Q4	11/16/21 2:46 PM	1.8	6.83	13.07	0.484	0.2	0.315	0	0	-86
MW-65	Q1	2/25/21 10:59 AM	0.5	8.35	11.41	1.24	0.6	0.794	0	0	-65
	Q2	5/13/21 1:48 PM	1.5	7.5	14.91	0.799	0.4	0.511	0	0	-161
	Q3	9/2/21 12:51 PM	1.2	7.18	18.74	0.993	0.5	0.636	0	0	-69
	Q4	11/9/21 10:46 AM	3.7	6.32	15.87	0.956	0.5	0.612	15.8	0	-32
MW-66	Q1	2/10/21 9:28 AM	1.3	7.69	12.85	0.352	-	0	-	0.1	-69
	Q2	5/13/21 11:02 AM	2	6.26	15.22	0.263	0.1	0.171	0	0	13
	Q3	8/23/21 9:53 AM	0.8	6.36	18.72	0.15	0.1	0.097	4.1	0	103
	Q4	11/10/21 1:27 PM	1.25	5.58	17.88	0.265	0.1	0.172	9.4	0	45

Table 34: Field Sampling Parameter Measurements

Sample Location	Quarter	Date and Time	Gallons Bailed	pH	Temperature (Celsius)	Conductivity (µmhos/cm)	Salinity (ppt)	TDS (g/L)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
MW-67	Q1	2/23/21 11:20 AM	1.2	7.94	10.97	0.529	0.3	0.339	0	3.42	56
	Q2	5/24/21 1:38 PM	2.85	7.45	13.57	0.444	0.2	0.289	10.3	5.83	66
	Q3	8/18/21 12:10 PM	1.25	6.82	19.95	0.361	0.2	0.235	17	1.62	164
	Q4	12/1/21 8:24 AM	1.3	7.14	12.67	0.544	0.3	0.348	0	4.43	188
MW-68	Q1	2/16/21 3:02 PM	3	9.69	13.99	0.527	0.3	0.337	0	0	-81
	Q3	8/17/21 4:08 PM	1.75	7.16	16.13	0.554	0.3	0.354	9.2	0	-58
	Q4	11/17/21 1:58 PM	1.25	10.66	15.28	0.239	0.1	0.156	0	2.71	-249
MW-69	Q1	2/11/21 1:12 PM	1.6	8.32	13.57	0.84	-	0	-	0	-92
	Q2	5/26/21 2:32 PM	1.6	6.99	16.97	0.82	0.4	0.525	0.5	0	-86
	Q3	8/24/21 2:51 PM	0.7	6.73	17.29	0.665	0.3	0.426	0	0	-55
	Q4	12/2/21 11:21 AM	1.75	6.76	14.42	0.388	0.2	0.252	0	0	6
MW-70	Q1	2/11/21 12:30 PM	4.4	8.46	13.89	26.6	-	0	-	0	-125
	Q2	5/26/21 1:19 PM	2.3	7.02	18.76	25.6	15.6	15.9	37.1	0	-119
	Q3	8/23/21 2:05 PM	1.5	6.56	17.4	0.314	0.1	0.204	0	0	-47
	Q4	11/30/21 10:11 AM	1	6.63	14.41	1.12	0.6	0.718	0	0	203
MW-71	Q1	2/17/21 11:53 AM	0.9	6.82	13.18	0.216	0.1	0.141	0	0	-34
	Q2	5/18/21 9:38 AM	1.75	6.95	14.77	0.255	0.1	0.166	49	0	-85
	Q3	8/17/21 10:46 AM	2.8	6.64	15.72	0.284	0.1	0.185	2.3	0	-59
	Q4	11/16/21 11:32 AM	2	6.83	14.54	0.189	0.1	0.123	0	0	-71
MW-72	Q1	2/16/21 10:06 AM	2.6	6.8	11.59	0.176	0.1	0	3.5	3.53	184
	Q2	5/21/21 1:03 PM	1.3	6.7	14.82	0.223	0.1	0.177	16.8	0	60
	Q3	8/26/21 11:01 AM	0.6	6.3	17.51	0.219	0.1	0.142	0	0	84
	Q4	11/17/21 12:06 PM	1.25	6.3	14.97	0.159	0.1	0.104	0	5.77	48
MW-73	Q1	2/22/21 10:39 AM	1.1	6.77	11.43	0.651	-	0.416	0	0	119
	Q2	5/20/21 8:21 AM	2.2	6.53	12.76	0.354	0.2	0.23	6.5	0	35
	Q3	8/27/21 9:30 AM	3.6	6.61	14.56	0.383	0.2	0.249	26	0	-46
	Q4	11/29/21 1:47 PM	3.6	5.84	14.16	0.271	0.1	0.176	13	0	43
MW-74	Q1	2/22/21 11:45 AM	0.9	7.46	12.8	0.659	0.3	0.422	0	0	-52
	Q2	5/20/21 2:25 PM	2.5	6.75	14.36	0.515	0.2	0.329	0	0	-56
	Q3	9/2/21 2:25 PM	2	6.31	17.91	0.497	0.2	0.323	28.5	0	54
	Q4	11/24/21 9:21 AM	1.5	6.5	10.88	0.546	0.3	0.35	0	0	-6

Table 34: Field Sampling Parameter Measurements

Sample Location	Quarter	Date and Time	Gallons Bailed	pH	Temperature (Celsius)	Conductivity (µmhos/cm)	Salinity (ppt)	TDS (g/L)	Turbidity (NTU)	DO (mg/L)	ORP (mV)
MW-75	Q1	2/18/21 1:08 PM	1.75	7.14	10.69	0.771	0.4	0.494	0	1.1	38
	Q2	5/24/21 8:17 AM	1.6	6.18	13.52	1	0.5	0.642	14.5	0	54
	Q3	8/31/21 12:41 PM	3.5	6.1	14.96	0.823	0.4	0.527	0	0	75
	Q4	11/12/21 10:43 AM	2.3	5.69	14.1	0.634	0.3	0.406	25.1	0	62
MW-76	Q1	2/10/21 12:57 PM	1.5	7.51	14.13	0.34	-	0	-	0	-65
	Q2	5/13/21 12:50 PM	2.75	6.37	15.73	0.305	0.1	0.198	10.6	0.1	-39
	Q3	8/17/21 12:37 PM	3.4	6.5	18.32	0.294	0.1	0.191	17.3	0	-38
	Q4	11/18/21 9:34 AM	1.5	5.77	17.69	0.304	0.1	0.197	0	0	-38

NOTES:

1 Well was pumped dry on the previous day.

2 Parameters did not save to tablet.

cm = centimeter; g/L = grams per liter; mg/L = milligrams per liter; mV = millivolt; NTU = nephelometric turbidity unity; ppt = parts per thousand; µmhos = microhos

Table 35: Pavement Sample Results

Sample	Sample Name	Sample Date	Sample Depth (feet bgs)	PCBs (mg/kg) SW8082A									
				Aroclor-1016 NA	Aroclor-1221 NA	Aroclor-1232 NA	Aroclor-1242 NA	Aroclor-1248 NA	Aroclor-1254 NA	Aroclor-1260 NA	Aroclor-1262 NA	Aroclor-1268 NA	Total PCB Aroclors 0.00000055 (0.02)
SB-2021-012	Asphalt-003-01252021	01/25/2021	Surface	<0.00160	<0.00160	<0.00160	<0.00160	0.00220 J	0.00220 J	0.00200 J	—	—	**0.00640 J**
SB-2021-046	Asphalt-004-01262021	01/26/2021	Surface	<0.00150	<0.00150	<0.00150	<0.00150	<0.00150	0.00350 J	0.00370 J	—	—	**0.00720 J**
MW-10R	Asphalt-005-01292021	01/29/2021	Surface	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.0128 J	0.0206	—	—	**0.0334 J**
Stain-001	Stain-001-01292021	01/29/2021	Surface	<0.00780 J*	<0.00780	<0.00780	<0.00780	<0.00780	<0.00780	0.00750 J	—	—	**0.00750 J**
Stain-002	Stain-002-01292021	01/29/2021	Surface	<0.00390	<0.00390	<0.00390	<0.00390	<0.00390	0.0088 J	0.0098 J	—	—	**0.0186 J**
Stain-003	Stain-003-01282021	01/28/2021	Surface	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	0.0501 J	—	—	**0.0501 J**

NOTES:
Results reported from Analytical Resources, LLC.
Screening levels are presented in the column header below the compound name. For some compounds, the laboratory reporting limit (from the Remedial Investigation Work Plan Quality Assurance Project Plan) is greater than the screening level. In these cases, the reporting limit is presented in the column header in parenthesis below the screening level and non-detect values are screened against the
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level and the laboratory reporting limit (where applicable).

— Not analyzed.
< Analyte was not detected; reported as less than the detection limit (<DL).
J Estimated concentration, detected greater than the detection limit (DL) and less than the reporting limit (RL). Flag applied by the laboratory.
JH* Estimated concentration, biased high due to quality control failures. Flag applied by Shannon & Wilson (*)
D Result reported from the analysis of a diluted extract. Flag applied by the laboratory. Shannon & Wilson validation determined the sample was useable.
bgs = below ground surface; mg/kg = milligrams per kilogram; NA = not applicable; PCBs = polychlorinated biphenyls

Table 36: Star Forge Confirmation Sample Results

				Petroleum Hydrocarbons				VOCs					Metals							
Sample Type	Sample Location	Sample Date	Sample Depth (feet bgs)	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Residual Range Organics	Toluene	Ethylbenzene	Xylenes	Total PCB Aroclors	Total cPAH TEQ	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Hexavalent Chromium
				100	2000	2000	2000	0.044	0.01	0.055	0.0000005	0.000016	7.3	250	0.77	48	36	56	48	85	0.0069
Decommissioned Oil Storage Area Excavation Base Samples	NT-SS-29	8/22/2023	6.5	4.9 U	29 U	57 U	57 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-30	8/22/2023	6.5	5.8 U	29 U	58 U	58 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-31	8/22/2023	6.5	80	1,800 U	**32000**	**32000**	0.0041 U	0.00082 U	0.0084	ND	ND	**39**	26	0.58 U	7.2	17	5.8 U	12	19	—
	NT-SS-32	8/22/2023	6.5	5.3 U	30 U	60 U	60 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-33	8/22/2023	6.5	5.7 U	31 U	61 U	61 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-34	8/22/2023	6.5	**280**	**8600**	**2200**	**10800**	**0.26 U**	**0.051 U**	**0.20**	ND	ND	**12 U**	24	0.60 U	7	11	6.0 U	8.1	21	—
	NT-SS-35	8/22/2023	6.5	6.5	240 U	**6600**	**6600**	0.0044 U	0.0021	**0.057**	ND	ND	**12 U**	27	0.59 U	8.7	12	5.9 U	8.4	25	—
	NT-SS-35 (Dup)	8/22/2023	6.5	6.5	730 U	**14000**	**14000**	0.0048 U	0.0012	0.028	ND	**0.004**	**12 U**	24	0.59 U	7.8	11	5.9 U	7.7	22	—
	NT-SS-28	8/30/2023	6.5	5.3 U	29 U	58 U	58 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-27	8/30/2023	6.5	7.7 U	32 U	120	120	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-26	8/30/2023	6.5	4.9 U	28 U	56 U	56 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Decommissioned Oil Storage Area Excavation Sidewall Samples	NT-SS-17	8/28/2023	5	**480**	**25000**	**200000**	**225000**	**0.25 U**	**0.065**	**0.54**	**0.27**	**0.003**	**12 U**	34	0.59 U	9.3	20	12	18	59	—
	NT-SS-18		5	**180**	**2500**	**21000**	**2350**	0.0047 U	**0.15**	**0.39 J**	**0.084**	**0.000**	**12 U**	28	0.62 U	7.7	17	6.2 U	9.4	20	—
	NT-SS-19		5	6.2 U	33 U	66 U	66 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-16		5	6.0 U	30 U	60 U	60 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-15		5	**110**	210	910	1,120	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-20	8/30/2023	5	5.2 U	96	56 U	96	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-21	8/30/2023	5	5.1 U	30 U	59 U	59 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-22	8/30/2023	5	5.3 U	30 U	59 U	59 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-23	8/30/2023	5	6.2 U	33 U	65 U	65 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-14	8/30/2023	5	**450**	**4900**	**33000**	**37900**	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-13	8/30/2023	5	100	**4900**	**47000**	**51900**	0.0046 U	0.00092 U	0.0163	**0.2**	**0.172**	11 U	27	0.54 U	7.9	21	5.4 U	11	23	—
	NT-SS-12	8/30/2023	5	5.6 U	28 U	56 U	56 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-SS-11	8/30/2023	5	7.2 U	35 U	69 U	69 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Decommissioned Oil Storage Area Piping Samples	NT-piping-SS-24	8/21/2023	2	6.4 U	1,500 U	**8900**	**8900**	0.0058 U	0.0012 U	0.0023 U	**0.52**	**0.012**	**27**	65	0.61 U	**100**	**150**	**140**	**910**	**190**	—
	NT-piping-SS-25	8/21/2023	2	5.2 U	39	360	399	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NT-piping-SS-26	8/21/2023	2	4.8 U	30 U	120	120	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 36: Star Forge Confirmation Sample Results

				Petroleum Hydrocarbons				VOCs					Metals								
Sample Type	Sample Location	Sample Date	Sample Depth (feet bgs)	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Residual Range Organics	Toluene	Ethylbenzene	Xylenes	Total PCB Aroclors	Total cPAH TEQ	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Hexavalent Chromium
				100	2000	2000	2000	0.044	0.01	0.055	0.0000005	0.000016	7.3	250	0.77	48	36	56	48	85	0.0069
Decommissioned Diesel Storage Area Excavation Base Samples	ST-SS-8	8/22/2023	8.5	**1,300**	**5300**	150 U	**5300**	**0.33**	**0.80**	**6.5**	ND	ND	**13 U**	28	0.63 U	7.9	10	6.3 U	7.6	23	—
	ST-SS-7	8/22/2023	8.5	5.7 U	**3400**	160 U	**3400**	0.0047 U	0.00094 U	0.0096	ND	ND	**12 U**	23	0.62 U	7.7	8.1	6.2 U	6.5	19	—
	ST-SS-6	8/22/2023	8.5	5.6 U	57	62 U	57	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-1	8/22/2023	8.5	6.7 U	33 U	67 U	67 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-2	8/22/2023	8.5	7.3 U	64	85	149	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS--2 (Dup)	8/22/2023	8.5	6.4 U	58	67 U	58	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-3	8/30/2023	8.5	56 U	330	64 U	330	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-4	8/30/2023	8.5	5.8 U	130	62 U	130	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-5	8/30/2023	8.5	**120 U**	430	57 U	430	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Decommissioned Diesel Storage Area Excavation Sidewall Samples	ST-SS-15	8/30/2023	6.5	**280 U**	**15000**	740 U	**15000**	**0.21 U**	0.085	**0.73**	ND	**0.044**	**11 U**	21	0.53 U	7.1	7.8	11	7.5	20	—
	ST-SS-16	8/30/2023	6.5	**230 U**	**6000**	710 U	**6000**	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-17	8/30/2023	6.5	**170 U**	**18000**	1,100 U	**18000**	**0.22 U**	**0.044 U**	**0.087 U**	ND	**0.095**	**11 U**	25	0.53 U	8.3	8.1	5.3 U	8	22	—
	ST-SS-18	8/30/2023	6.5	78 U	**2900**	190 U	**2900**	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-19	8/30/2023	6.5	4.7 U	28 U	56 U	56 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-9	8/30/2023	6.5	5.7 U	33 U	66 U	66 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-10	8/30/2023	6.5	7.1 U	36 U	73 U	73 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-11	8/30/2023	6.5	7.1 U	38	70 U	38	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-12	8/30/2023	6.5	6.6 U	32 U	63 U	63 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-13	8/30/2023	6.5	8.6 U	40 U	80 U	80 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ST-SS-14	8/30/2023	6.5	6.8 U	35 U	69 U	69 U	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Decommissioned Diesel Storage Area Piping Samples	ST-piping-SS-20	10/13/2023	6.5	**220**	**3400**	860	**4260**	**0.40**	**0.46**	**3.0**	ND	**0.039**	**31**	82	**0.85**	25	**67**	49	**94**	**280**	—
	ST-piping-SS-21	10/13/2023	2	4.8 U	120	260	380	0.0041 U	0.00082 U	0.0012	ND	**0.185**	**11 U**	41	0.55 U	**55**	**56**	18	**64**	44	—
	ST-piping-SS-22	10/13/2023	2	4.0 U	28 U	190	190	0.0037 U	0.00074 U	0.0015 U	ND	**0.83**	**11 U**	33	0.55 U	20	30	18	**58**	43	—
Powerhouse Vault	W. Pwrhouse Vault Soil	12/27/2023	2	—	—	—	—	—	—	—	**0.14**	—	—	—	—	—	—	—	—	—	—
Tote Storage Area	TS-SS-NW	10/24/2023	2	—	27 U	53 U	52 U	—	—	—	**0.053 U**	—	—	—	—	—	—	—	—	—	—
	TS-SS-NE	10/24/2023	2	—	430	260	690	—	—	—	**0.18**	—	—	—	—	—	—	—	—	—	—
	TS-SS-SW	10/24/2023	1.5	—	26 U	52 U	52 U	—	—	—	**0.052 U**	—	—	—	—	—	—	—	—	—	—
	TS-SS-SE	10/24/2023	1.5	—	26 U	52 U	52 U	—	—	—	**0.052 U**	—	—	—	—	—	—	—	—	—	—
	TS-SS-E	10/24/2023	1.5	—	900	560	1460	—	—	—	**0.36**	—	—	—	—	—	—	—	—	—	—
Central Accumulation Area	CAA-SS-NW	8/24/2023	0.25	—	26 U	93	93	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	CAA-SS-NE	8/24/2023	0.25	—	790	410	1200	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	CAA-SS-SW	8/24/2023	0.25	—	27 U	220	220	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	CAA-SS-SE	8/24/2023	0.25	—	87	340	427	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 36: Star Forge Confirmation Sample Results

				Petroleum Hydrocarbons				VOCs					Metals								
Sample Type	Sample Location	Sample Date	Sample Depth (feet bgs)	Gasoline Range Organics	Diesel Range Organics	Residual Range Organics	Total Diesel and Residual Range Organics	Toluene	Ethylbenzene	Xylenes	Total PCB Aroclors	Total cPAH TEQ	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Hexavalent Chromium
				100	2000	2000	2000	0.044	0.01	0.055	0.0000005	0.000016	7.3	250	0.77	48	36	56	48	85	0.0069
Bag House North	BH-N-SS-NW	11/18/2023	1.5	—	29 U	180	180	—	—	—	—	—	—	—	—	—	—	—	—	—	**2.8**
	BH-N-SS-NE	11/18/2023	1.5	—	29 U	210	210	—	—	—	—	—	—	—	—	—	—	—	—	—	**1.1 U**
	BH-N-SS-SW	11/18/2023	1.5	—	43 U	430	430	—	—	—	—	—	—	—	—	—	—	—	—	—	**1.4**
	BH-N-SS-SE	11/18/2023	1.5	—	58 U	570	570	—	—	—	—	—	—	—	—	—	—	—	—	—	**1.1 U**

NOTES:
Results provided within "Final Dangerous Waste Clean Closure Report" (DH Environmental, Inc., 2024a), "Agency Review Draft Interim Action Completion Report" (DH Environmental, Inc., 2024b), and "UST Decommissioning and Site Assessment Report" (DH Environmental, Inc., 2024c).
Results are in milligrams per kilogram.
— Not analyzed.
U Analyte was not detected; reported as less than the detection limit (<DL).
Pink shading with bold text indicates an exceedance of the screening level.
Blue shading with bold text indicates that an analyte was not detected and the detection limit exceeds the screening level.
bgs = below ground surface; cPAH = carcinogenic polycyclic aromatic hydrocarbon; PCBs = polychlorinated biphenyls; TEQ = toxicity equivalent quotient; VOCs = volatile organic compounds

Table 37: Summary of COPCs in Soil and Groundwater

Compound	Retained in Soil	Retained in Groundwater	Comments
Metals			
Arsenic	X	X*	Retained in groundwater at MW-6 (in the embayment), Area 3 (MW-8), Area 1 (MW-23, MW-24, MW-25, MW-57), Area 2 (MW-32, MW-36, MW-40, MW-41, MW-60, and MW-72), Shipping Area (MW 58), and at the Storage Area at the southwest corner of the Site (MW-68).
Chromium	X*		Retained in soil within unpaved areas due to TEE.
Hexavalent Chromium	X*	X*	Retained in soil at the Bag House North location (below north end of removed. Retained in groundwater at MW-39.
Cobalt	X*		Retained in former unpaved areas of main building.
Copper	X*	X*	Retained in soil at Area 2 (MW-37 and MW-61) and within the Storage Area in the southwest corner of the Site. Retained in groundwater at Area 2 (MW-37, MW-61, and MW-72) and within the Storage Area in the southwest corner of the Site (MW-68).
Lead	X*		Retained in soil along the shoreline, in the shoreline wedge, in the Storage Area in the southwest corner of the Site, and at Area 2 (MW-37).
Manganese		X*	Retained in groundwater at Area 2 (MW-36 and MW-74), MW-65 (in the embayment), at the Storage Area in the southwest corner of the Site (MW-68), and in the northwest corner of the Site (MW-70).
Nickel	X*	X*	Retained in groundwater at MW-65 (in the embayment) and at Area 2 (MW-73). Retained in soil at the Storage Area in the southwest corner of the Site, at SB3, and at SB6.
Selenium	X*		Retained in soil within unpaved areas due to TEE.
Vanadium	X*		Retained in soil within unpaved areas due to TEE.
Zinc	X*		Retained in soil at the northwest corner of Site and in the shoreline wedge.
Polychlorinated Biphenyls (PCBs)			
Total PCB Aroclors	X*	X*	Retained in groundwater at MW-39 and MW-68. Retained in soil at four locations along west end of Site (SB2, SB4, JF-SB4NSW-9, and MW-54), at the Storage Area in the southwest corner of the Site, and south of Boeing OA-11.
Polycyclic Aromatic Hydrocarbons (PAHs)			
cPAH TEQ	X*	X*	Retained in soil and groundwater within Area 2, Area 4, and within the Steam Clean Area. Within these areas, cPAHs are co-located with petroleum contamination. Only detected above screening levels on more than one occasion within samples taken from MW-10R, MW-46, MW-64, and MW-73. Retained in soil near the 2013 SB4 excavation, and in the shoreline wedge.
Acenaphthene		X*	Retained in groundwater at Area 1 (MW-31) and Area 2 (MW-60). Acenaphthene is co-located with petroleum contamination.
Naphthalene	X*	X*	Retained in soil and groundwater at the Steam Clean Area, the Shipping Area, and at the northwest corner of the Site (MW-69/MW-70).

Table 37: Summary of COPCs in Soil and Groundwater

Compound	Retained in Soil	Retained in Groundwater	Comments
Semivolatile Organic Compounds (SVOCs)			
Bis(2-ethylhexyl) phthalate	X	X	
1,4-Dichlorobenzene		X*	Retained in groundwater at the northwest corner of the Site (MW-69). 1,4-dichlorobenzene is co-located with petroleum contamination.
Total Petroleum Hydrocarbons			
Diesel Range	X*	X*	Retained in soil and groundwater at Area 1, Area 2, Area 4, the Storage Area in the southwest corner of the Site, and in the northwest corner of the Site. Retained in soil south of Boeing OA-11. Retained in groundwater at the Steam Clean Area. .
Gasoline Range	X*	X*	Retained in soil and groundwater at Area 3 and within the Shipping Area. Retained in soil at Area 2, Area 4, and in the northwest corner of the Site.
Oil Range	X*	X*	Retained in soil and groundwater at Area 1, Area 2, Area 4, and at the Storage Area in the southwest corner of the Site. Retained in soil in the northwest corner of the Site and south of Boeing OA-11. Retained in groundwater at the Steam Clean Area.
Volatile Organic Compounds (VOCs)			
Benzene	X*	X*	Retained in soil and groundwater within the Shipping Area and in the northwest corner of the Site.
Ethylbenzene	X*	X*	Retained in soil and groundwater within the Shipping Area.
Trichloroethene (TCE)		X*	Retained in groundwater at the northwest corner of the Site (MW-70) and at MW-49 (near northern property boundary at the east end of the Site).
Vinyl chloride		X	
Per- and Polyfluoroalkyl Substances (PFAS)			
PFOS	X*	X*	Retained in soil and groundwater within the PFAS Release Area.
PFOA	X*		Retained in soil within the PFAS Release Area.

NOTES:

COPC evaluation is discussed within Section 6.1 of the report.

X indicates that compound has been retained sitewide. X* indicates that it has been retained in portions of the Site as detailed in Comments.

COPC = chemical of potential concern; cPAH = carcinogenic polycyclic aromatic hydrocarbon; cPAH TEQ - cPAH toxic equivalency; GW = groundwater; HVOC = halogenated volatile organic compound; LDW = Lower Duwamish Waterway; LNAPL = light nonaqueous phase liquid; PCUL = Preliminary Cleanup Level; S = soil; TEE = terrestrial ecological evaluation; UST = underground storage tank.

Table 38: Evaluation Summary Table - COPCs in Groundwater

Statistics[1]													Evaluation[2]									Summary[3]	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Metals																							
Aluminum (Dissolved)	1.6E+04	5.0E-02	3	2	0	1	0	33.3%	0.0%	3.0E+01	2.0E+01	1.1E+01	-	-	-	X	-	X	-	-		Not a COPC	
Aluminum (Total)	1.6E+04	5.0E-02	7	1	0	6	0	85.7%	0.0%	6.0E+01	2.0E+00	2.0E+00	-	-	-	X	-	X	-	-		Not a COPC	
Antimony (Dissolved)	9.0E+01	1.0E+00	145	133	3	12	0	8.3%	2.1%	4.0E+00	1.0E+02	2.0E+00	-	-	-	-	-	X	-	-		Not a COPC	
Antimony (Total)	9.0E+01	1.0E+00	174	159	5	15	0	8.6%	2.9%	4.0E+00	1.0E+02	2.0E+00	-	-	-	-	-	X	-	-		Not a COPC	
Arsenic (Dissolved)	8.0E+00	5.0E-02	445	110	3	335	58	75.3%	13.7%	9.2E+01	2.0E+01	2.0E+00	-	-	-	-	-	-	-	X	See Arsenic (Total)	COPC in Limited Areas	Arsenic (Dissolved)
Arsenic (Total)	8.0E+00	5.0E-02	394	63	2	331	72	84.0%	18.8%	1.3E+02	5.0E+01	9.5E-01	-	-	-	-	-	-	-	X	Retain at MW-6, MW-8, MW-23, MW-24, MW-25, MW-32, MW-36, MW-40, MW-41, MW-57, MW-58, MW-60, and MW-72 due to multiple total and dissolved exceedances. Retained at MW-68 (only exceeded during one event, but was only sampled two times). Not retained at MW-5, MW-7, MW-9, MW-13, MW-14, MW-39, MW-42,MW-46, MW-61, MW-63, MW-71, MW-73, MW-74 because exceedances occurred only once, occurred more than once but concentrations reduced to below PCUL, or dissolved arsenic did not exceed.	COPC in Limited Areas	Arsenic (Total)
Barium (Dissolved)	2.0E+02	3.0E-03	186	79	0	107	1	57.5%	0.5%	2.1E+02	2.5E+01	2.5E-01	-	-	-	-	-	X	-	-		Not a COPC	
Barium (Total)	2.0E+02	3.0E-03	127	3	1	124	5	97.6%	4.7%	6.7E+02	2.0E+03	2.0E-01	-	-	-	-	-	-	X		Frequency of exceedance <10%. Two 1990 samples contained barium at > 2X PCUL. Later samples for dissolved barium at same locations were ND with RL < PCUL.	Not a COPC	
Beryllium (Dissolved)	4.9E+00	1.0E-03	143	138	0	5	0	3.5%	0.0%	2.6E-02	2.0E+00	2.0E-01	-	-	-	X	X	X	-	-		Not a COPC	
Beryllium (Total)	4.9E+00	1.0E-03	173	166	0	7	0	4.0%	0.0%	1.6E-01	2.0E+00	2.0E-01	-	-	-	X	X	X	-	-		Not a COPC	
Cadmium (Dissolved)	1.2E+00	2.0E-03	400	371	203	29	0	7.3%	50.8%	6.0E-01	2.0E+01	2.0E+00	-	-	-	-	-	-	X	-	Never > PCUL. Frequency of exceedance driven by high historic RLs. RLs from 2021 events < PCUL.	Not a COPC	

Table 38: Evaluation Summary Table - COPCs in Groundwater

Statistics[1]													Evaluation[2]									Summary[3]	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Cadmium (Total)	1.2E+00	2.0E-03	349	294	147	55	5	15.8%	43.6%	2.3E+01	2.5E+01	1.5E+00	-	-	-	-	-	-	X	-	Frequency of exceedance driven by high historic RLs. Detected > PCUL within five samples (three historic and two recent). The two recent detections were > 2X PCUL, but < 3X PCUL (MW-9). Dissolved cadmium never detected above PCUL.	Not a COPC	
Chromium (Dissolved)	1.0E+02	5.0E-03	390	286	0	104	1	26.7%	0.3%	1.2E+02	5.0E+01	5.0E+00	-	-	-	-	-	X	-	-		Not a COPC	
Chromium (Total)	1.0E+02	5.0E-03	339	177	0	162	1	47.8%	0.3%	1.8E+02	1.0E+02	5.0E+00	-	-	-	-	-	X	-	-		Not a COPC	
Chromium, hexavalent (Dissolved)	3.6E-01	1.0E-02	59	30	24	29	13	49.2%	62.7%	2.4E+01	1.3E+01	1.3E+01	-	-	-	-	-	-	-	X	Retain at MW-39 due to multiple exceedances.	COPC in Limited Areas	Chromium, hexavalent (Dissolved)
Cobalt (Dissolved)	4.8E+00	3.0E-03	161	6	0	155	6	96.3%	3.7%	2.1E+01	3.0E+00	2.2E-01	-	-	-	-	-	-	X	-	PCUL for cobalt is based on drinking water which is not applicable for the Site. No other relevant screening levels were established.	Not a COPC	
Cobalt (Total)	4.8E+00	3.0E-03	167	7	0	160	10	95.8%	6.0%	2.2E+01	3.0E+00	3.0E+00	-	-	-	-	-	-	X	-	PCUL for cobalt is based on drinking water which is not applicable for the Site. No other relevant screening levels were established.	Not a COPC	
Copper (Dissolved)	3.1E+00	2.0E-03	416	275	90	141	16	33.9%	25.5%	1.0E+01	2.0E+01	5.0E-01	-	-	-	-	-	-	-	X	See Copper (Total)	COPC in Limited Areas	Copper (Dissolved)
Copper (Total)	3.1E+00	2.0E-03	362	120	5	242	66	66.9%	19.6%	1.1E+02	1.0E+02	6.8E-01	-	-	-	-	-	-	-	X	Retain at MW-37, MW-61, MW-68, and MW-72 due to multiple total and dissolved copper exceedances. Not retained at MW-4, MW-6, MW-11, MW-40, MW-47, MW-57, MW-60, MW-62, MW-63, MW-64, and MW-70 because exceedances occurred only once or dissolved copper did not exceed.	COPC in Limited Areas	Copper (Total)
Iron (Dissolved)	3.2E+04	5.0E-02	146	11	0	135	10	92.5%	6.8%	5.7E+04	1.0E+02	1.8E+01	-	-	-	-	-	X	-	-		Not a COPC	
Iron (Total)	3.2E+04	5.0E-02	146	4	0	142	16	97.3%	11.0%	9.3E+04	1.0E+02	2.7E+01	-	-	-	-	-	-	X	-	Frequency of exceedance (10.7%) close to 10%. Two samples contained total iron at > 2X PCUL (but less than 3X PCUL).	Not a COPC	
Lead (Dissolved)	5.6E+00	2.0E-02	399	382	2	17	0	4.3%	0.5%	4.2E+00	1.0E+01	1.0E+00	-	-	-	-	X	X	-	-		Not a COPC	
Lead (Total)	5.6E+00	2.0E-02	349	233	6	116	8	33.2%	4.0%	8.4E+01	5.0E+02	1.0E+00	-	-	-	-	-	-	X	-	Low exceedance frequency (3.4%). Locations with > 2X PCUL results have more recent samples at < PCUL (except MW-13 which was only sampled once). Only one historic RL at > 10X PCUL.	Not a COPC	

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Statistics[1]													Evaluation[2]									Summary[3]	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Manganese (Dissolved)	2.0E+03	1.0E-03	272	4	0	268	23	98.5%	8.5%	5.3E+03	8.5E-02	8.5E-02	-	-	-	-	-	-	-	X	See Manganese (Total)	COPC in Limited Areas	Manganese (Dissolved)
Manganese (Total)	2.0E+03	1.0E-03	270	2	0	268	23	99.3%	8.5%	5.5E+03	8.5E-02	8.5E-02	-	-	-	-	-	-	-	X	Retain at MW-36, MW-65, MW-70, and MW-74 due to multiple total and dissolved manganese exceedances. Retained at MW-68 (only exceeded during one event, but was only sampled two times). Not retained at MW-11, MW-14, MW-23, MW-39, or MW-69 because exceedances occurred only once or dissolved manganese did not exceed.	COPC in Limited Areas	Manganese (Total)
Mercury, inorganic (Dissolved)	2.5E-02	1.0E-04	396	382	163	14	0	3.5%	41.2%	1.5E-02	5.0E-01	2.0E-02	-	-	-	-	-	-	X	-	Never detected above PCUL and median RL < PCUL.	Not a COPC	
Mercury, inorganic (Total)	2.5E-02	1.0E-04	350	302	82	48	15	13.7%	27.7%	2.0E+00	5.0E+02	2.0E-02	-	-	-	-	-	-	X	-	Detections above PCUL in 15 samples (including 7 during the RI). Of the 7 collected during the RI, 6 were taken on the same day suggesting a possible cross-contamination issue. Other samples from same wells during RI did not contain mercury > PCUL. All but one of the 15 exceedances occurred at locations with subsequent sampling results below PCULs. Median RL is below the PCUL. One historically high RL of 500 ug/L.	Not a COPC	
Nickel (Dissolved)	8.2E+00	1.0E-02	320	29	3	291	12	90.9%	4.7%	2.5E+01	2.0E+01	5.8E-01	-	-	-	-	-	-	-	X	See Nickel (Total)	COPC in Limited Areas	Nickel (Dissolved)
Nickel (Total)	8.2E+00	1.0E-02	349	55	26	294	32	84.2%	16.6%	2.5E+01	2.0E+01	1.7E+00	-	-	-	-	-	-	-	X	Retain at MW-65 and MW-73. Not retained at MW-37, MW-39, MW-58, and MW-61 because exceedances occurred only once or dissolved nickel not exceed.	COPC in Limited Areas	Nickel (Total)
Selenium (Dissolved)	7.1E+01	5.0E-02	314	236	6	78	3	24.8%	2.9%	1.2E+02	2.5E+02	4.4E-01	-	-	-	-	-	-	X	-	Detected > PCUL at PL2-JF01C, with later samples < PCUL. Median RL < PCUL.	Not a COPC	

Table 38: Evaluation Summary Table - COPCs in Groundwater

Statistics[1]													Evaluation[2]									Summary[3]	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Selenium (Total)	7.1E+01	5.0E-02	348	247	8	101	2	29.0%	2.9%	1.1E+02	5.0E+02	2.0E+00	-	-	-	-	-	-	X	-	Detected > PCUL at PL2-JF01C, with later samples < PCUL. Median RL < PCUL.	Not a COPC	
Silver (Dissolved)	1.9E+00	3.0E-03	393	385	60	8	0	2.0%	15.3%	4.4E-02	1.0E+01	2.0E-01	-	-	-	-	X	-	-	-		Not a COPC	
Silver (Total)	1.9E+00	3.0E-03	340	316	39	24	1	7.1%	11.8%	2.0E+00	1.0E+02	1.4E-01	-	-	-	-	-	-	X	-	Low frequency of detection and only one slight PCUL exceedance occurred with subsequent samples <PCUL. Median RL < PCUL.	Not a COPC	
Thallium (Dissolved)	6.2E-02	5.0E-02	132	131	124	1	0	0.8%	93.9%	1.0E-03	5.0E+01	2.0E-01	-	-	-	-	-	-	X	-	Never detected > PCUL. Median RL < 10X PCUL.	Not a COPC	
Thallium (Total)	6.2E-02	5.0E-02	163	157	154	6	1	3.7%	95.1%	2.0E+00	1.0E+02	2.0E-01	-	-	-	-	-	-	X	-	One detection > PCUL; later samples from the well with the exceedance were < PCUL. Median RL < 10X PCUL.	Not a COPC	
Vanadium (Dissolved)	1.4E+02	3.0E-03	228	45	0	183	0	80.3%	0.0%	3.8E+01	3.0E+01	3.0E+00	-	-	-	X	-	X	-	-		Not a COPC	
Vanadium (Total)	1.4E+02	3.0E-03	238	24	0	214	0	89.9%	0.0%	4.4E+01	2.0E+01	3.0E+00	-	-	-	X	-	X	-	-		Not a COPC	
Zinc (Dissolved)	8.1E+01	1.0E-02	419	347	1	72	0	17.2%	0.2%	6.0E+01	1.5E+02	6.0E+00	-	-	-	-	-	X	-	-		Not a COPC	
Zinc (Total)	8.1E+01	1.0E-02	366	267	2	99	3	27.0%	1.4%	1.3E+02	1.5E+02	4.0E+00	-	-	-	-	-	X	-	-		Not a COPC	
Polychlorinated Biphenyls																							
Total PCB Aroclors	7.0E-06	3.0E-03	163	159	159	4	4	2.5%	100.0%	4.1E-01	1.0E+00	1.0E-02	-	-	-	-	-	-	-	X	Limited detections have occurred, including one sample taken from MW-6 in 2006 (not detected during later events), a 2007 detection within a sample taken from PL2-JF01AR, within two samples taken from MW-39 (in 2021), and within one sample taken from MW-68 (in 2021). The detections are likely attributable to particulates. Retain at MW-39 and MW-68.	COPC in Limited Areas	Total PCB Aroclors
Total PCB congeners	7.0E-06	-	4	0	0	4	4	100.0%	100.0%	1.8E-04			-	-	-	-	-	-	-	-		Sitewide COPC	Total PCB congeners

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Statistics[1]													Evaluation[2]									Summary[3]	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Carcinogenic Polycyclic Aromatic Hydrocarbons																							
Benzo(a)pyrene	1.6E-05	1.0E-02	246	244	244	2	2	0.8%	100.0%	1.2E-01	5.0E-01	9.5E-03	-	-	-	-	-	-	X	-	See Total cPAH TEQ.	Not a COPC	
Benzo(a)anthracene	1.6E-04	1.0E-02	246	237	237	9	9	3.7%	100.0%	5.2E-02	4.0E-01	9.5E-03	-	-	-	-	-	-	X	-	See Total cPAH TEQ.	Not a COPC	
Benzo(b)fluoranthene	1.6E-04	1.0E-02	224	216	216	8	8	3.6%	100.0%	1.7E-01	1.0E-01	9.5E-03	-	-	-	-	-	-	X	-	See Total cPAH TEQ.	Not a COPC	
Benzo(k)fluoranthene	1.6E-03	1.0E-02	224	224	224	0	0	0.0%	100.0%	-	1.0E-01	9.5E-03	-	-	X	-	-	-	-	-		Not a COPC	
Chrysene	1.6E-02	1.0E-02	246	229	54	17	1	6.9%	22.4%	2.2E-01	4.0E-01	9.6E-03	-	-	-	-	-	-	X	-	See Total cPAH TEQ.	Not a COPC	
Dibenz(a,h)anthracene	1.6E-05	1.0E-02	246	244	244	2	2	0.8%	100.0%	1.3E-02	4.0E-01	9.5E-03	-	-	-	-	-	-	X	-	See Total cPAH TEQ.	Not a COPC	
Indeno(1,2,3-cd)pyrene	1.6E-04	1.0E-02	246	243	243	3	3	1.2%	100.0%	9.1E-02	4.0E-01	9.5E-03	-	-	-	-	-	-	X	-	See Total cPAH TEQ.	Not a COPC	
Benzo(j)fluoranthene	-	-	127	126	0	1	0	0.8%	0.0%	7.0E-03	8.0E-02	4.0E-03	X	-	-	-	-	-	-	-		Not a COPC	
Total cPAH TEQ	1.6E-05	1.0E-02	246	226	226	20	20	8.1%	0.6%	1.5E-01	NA	NA	-	-	-	-	-	-	-	X	Sporadic low cPAH detections > PCUL have been measured (co-located with petroleum impacts). Several wells had very low detections within a single event only. These locations have not been retained. Retain at MW-10R, MW-46, MW-64, and MW-73.	COPC in Limited Areas	Total cPAH TEQ
Other Polycyclic Aromatic Hydrocarbons																							
1-Methylnaphthalene	8.0E+02	2.0E-02	158	96	0	62	0	39.2%	0.0%	2.8E+00	3.0E-01	1.1E-02	-	-	-	X	-	X	-	-		Not a COPC	
2-Methylnaphthalene	1.4E+01	2.0E-02	246	191	0	55	0	22.4%	0.0%	1.1E+01	2.0E-01	3.0E-02	-	-	-	X	-	X		-		Not a COPC	
Acenaphthene	5.3E+00	2.0E-02	246	141	0	105	14	42.7%	5.7%	4.8E+01	3.0E-01	9.5E-02	-	-	-	-	-	-		X	Exceedances limited to MW-31, MW-37, MW-46, and MW-60. Concentrations reduced to < PCUL at MW-37 and MW-46. Retain at MW-31 and MW-60.	COPC in Limited Areas	Acenaphthene
Acenaphthylene	-	2.0E-02	246	223	0	23	0	9.3%	0.0%	1.9E-01	3.0E-01	2.0E-02	X	-	-	-	-	-	-	-		Not a COPC	
Anthracene	2.1E+00	2.0E-02	246	200	0	46	0	18.7%	0.0%	3.7E-01	4.0E-01	3.0E-02	-	-	-	X	-	X	-	-		Not a COPC	
Benzo(g,h,i)perylene	-	2.0E-02	246	243	0	3	0	1.2%	0.0%	7.8E-02	5.0E-01	9.5E-03	X	-	-	-	-	-				Not a COPC	
Dibenzofuran	3.1E+00	1.0E+00	248	205	0	43	0	17.3%	0.0%	5.9E-01	1.0E+00	2.0E-02	-	-	-	X	-	X	-	-		Not a COPC	
Fluoranthene	1.8E+00	2.0E-02	246	193	0	53	0	21.5%	0.0%	4.2E-01	4.0E-01	3.0E-02	-	-	-	X	-	X	-	-		Not a COPC	
Fluorene	3.7E+00	2.0E-02	245	188	0	57	3	23.3%	1.2%	6.0E+00	3.0E-01	2.0E-02	-	-	-	-	-	X	-	-		Not a COPC	
Naphthalene	1.4E+00	2.0E-02	267	217	0	50	10	18.7%	3.7%	9.7E+01	1.0E+00	3.0E-02	-	-	-	-	-	-	-	X	Exceedances limited to MW-46, MW-58, and MW-69. Retain at MW-46, MW-58, and MW-69.	COPC in Limited Areas	Naphthalene
Phenanthrene	-	2.0E-02	246	168	0	78	0	31.7%	0.0%	6.7E+00	2.0E-01	2.0E-02	X	-	-	-	-	-	-	-		Not a COPC	
Pyrene	2.0E+00	2.0E-02	246	193	0	53	0	21.5%	0.0%	4.3E-01	3.0E-01	3.0E-02	-	-	-	X	-	X	-	-		Not a COPC	

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Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Semivolatile Organic Compounds																							
1,2,4-Trichlorobenzene	3.7E-02	2.0E-01	173	173	129	0	0	0.0%	74.6%	-	2.0E+03	2.0E-01	-	-	X	-	-	-	-	-		Not a COPC	
1,2-Dichlorobenzene	4.5E+00	1.0E+00	224	219	4	5	0	2.2%	1.8%	1.5E+00	2.0E+03	2.0E-01	-	-	-	-	-	-	X	-	Never detected > PCUL. Locations with elevated RL have been subsequently sampled with RL < PCUL.	Not a COPC	
1,3-Dichlorobenzene	2.0E+00	1.0E+00	52	51	1	1	0	1.9%	1.9%	6.0E-02	1.3E+01	3.0E-02	-	-	-	-	X	-	-	-		Not a COPC	
1,4-Dichlorobenzene	5.0E+00	1.0E+00	224	213	4	11	2	4.9%	2.7%	5.9E+00	2.0E+03	2.0E-01	-	-	-	-	-	-	-	X	Locations with RL > PCUL have been subsequently sampled with RL < PCUL. Retain at MW-69.	COPC in Limited Areas	1,4-Dichlorobenzene
2,4,5-Trichlorophenol	6.0E+02	2.0E+00	49	49	0	0	0	0.0%	0.0%	-	5.0E+00	1.0E-01	-	X	X	X	X	X	-	-		Not a COPC	
2,4,6-Trichlorophenol	2.8E-01	1.0E+00	49	49	5	0	0	0.0%	10.2%	-	5.0E+00	2.0E-01	-	-	X	-	-	-	-	-		Not a COPC	
2,4-Dichlorophenol	1.0E+01	2.0E+00	50	50	0	0	0	0.0%	0.0%	-	5.0E+00	1.0E-01	-	X	X	X	X	X	-	-		Not a COPC	
2,4-Dimethyl-phenol	2.9E+00	1.0E+00	183	183	0	0	0	0.0%	0.0%	-	1.0E+00	9.4E-01	-	X	X	X	X	X	-	-		Not a COPC	
2,4-Dinitrophenol	1.0E+02	2.0E+00	49	49	0	0	0	0.0%	0.0%	-	1.0E+01	2.0E-01	-	X	X	X	X	X	-	-		Not a COPC	
2,4-Dinitrotoluene	1.8E-01	1.0E+00	49	49	5	0	0	0.0%	10.2%	-	5.0E+00	1.0E-01	-	-	X	-	-	-	-	-		Not a COPC	
2,6-Dinitrotoluene	7.5E+01	1.0E+00	49	49	0	0	0	0.0%	0.0%	-	5.0E+00	2.0E-01	-	X	X	X	X	X	-	-		Not a COPC	
2-Chloronaphthalene	1.0E+02	1.0E+00	74	74	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	-	X	X	X	X	X	-	-		Not a COPC	
2-Chlorophenol	1.7E+01	1.0E+00	49	49	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	-	X	X	X	X	X	-	-		Not a COPC	
2-Methylphenol (o-Cresol)	1.1E+01	1.0E+00	137	137	0	0	0	0.0%	0.0%	-	1.0E+00	9.6E-01	-	X	X	X	X	X	-	-		Not a COPC	
2-Nitroaniline	7.4E+05	2.0E+00	49	49	0	0	0	0.0%	0.0%	-	5.0E+00	2.0E-01	-	X	X	X	X	X	-	-		Not a COPC	
2-Nitrophenol	-	2.0E+00	49	49	0	0	0	0.0%	0.0%	-	5.0E+00	4.0E-02	X	-	-	-	-	-	-	-		Not a COPC	
3,3'-Dichlorobenzidine	3.3E-03	1.0E+00	49	46	46	3	3	6.1%	100.0%	3.0E-01	5.0E+00	3.0E-01	-	-	-	-	-	-	X	-	The three detections were rejected based on quality control issues. Median RL is below the PQL.	Not a COPC	
3-Nitroaniline	-	3.0E+00	49	48	0	1	0	2.0%	0.0%	2.0E-01	5.0E+00	2.0E-01	X	-	-	-	-	-	-	-		Not a COPC	
4,6-Dinitro-2-methylphenol	7.0E+00	2.0E+00	49	49	4	0	0	0.0%	8.2%		1.0E+01	4.0E-01	-	X	X	-	X	X	-	-		Not a COPC	
4-Bromophenyl phenyl ether	-	1.0E+00	49	49	0	0	0	0.0%	0.0%	-	1.0E+00	2.0E-02	X	-	-	-	-	-	-	-		Not a COPC	
4-Chloro-3-methylphenol	3.6E+01	2.0E+00	49	49	0	0	0	0.0%	0.0%	-	5.0E+00	1.0E-01	-	X	X	X	X	X	-	-		Not a COPC	
4-Chloroaniline	2.4E+03	1.0E+00	49	43	0	6	0	12.2%	0.0%	4.0E-02	5.0E+00	4.0E-02	-	-	-	X	-	X	-	-		Not a COPC	
4-Chlorophenyl phenyl ether	-	1.0E+00	49	49	0	0	0	0.0%	0.0%	-	1.0E+00	2.0E-02	X	-	-	-	-	-	-	-		Not a COPC	
4-Methylphenol (p-Cresol)	1.1E+02	1.0E+00	130	129	0	1	0	0.8%	0.0%	1.8E+01	1.0E+00	9.5E-01	-	-	-	X	X	X	-	-		Not a COPC	
4-Nitroaniline	1.1E+05	2.0E+00	49	49	0	0	0	0.0%	0.0%	-	5.0E+00	2.0E-01	-	X	X	X	X	X	-	-		Not a COPC	

Table 38: Evaluation Summary Table - COPCs in Groundwater

Statistics[1]													Evaluation[2]									Summary[3]	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
4-Nitrophenol	-	2.0E+00	49	48	0	1	0	2.0%	0.0%	6.0E-02	5.0E+00	6.0E-02	X	-	-	-	-	-	-	-		Not a COPC	
Benzoic acid	5.9E+02	2.0E+00	95	86	0	9	0	9.5%	0.0%	8.0E-01	1.0E+01	1.0E-01	-	-	-	X	-	X	-	-		Not a COPC	
Benzyl alcohol	5.6E+01	1.0E+00	137	136	0	1	0	0.7%	0.0%	5.0E-02	5.0E+00	9.6E-01	-	-	-	X	X	X	-	-		Not a COPC	
Bis(2-chloro-1-methylethyl) ether	1.0E+02	1.0E+00	49	49	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	-	X	X	X	X	X	-	-		Not a COPC	
Bis(2-chloroethoxy)methane	6.8E+05	1.0E+00	50	50	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	-	X	X	X	X	X	-	-		Not a COPC	
Bis(2-chloroethyl)ether	6.0E-02	2.0E-01	49	49	5	0	0	0.0%	10.2%	-	1.0E+00	3.0E-02	-	-	X	-	-	-	-	-		Not a COPC	
Bis(2-ethylhexyl) phthalate	4.6E-02	2.0E-01	183	168	168	15	15	8.2%	100.0%	3.5E+01	2.3E+00	9.5E-01	-	-	-	-	-	-	-	-		Sitewide COPC	Bis(2-ethylhexyl) phthalate
Butyl benzyl phthalate	1.3E-02	2.0E-01	183	183	183	0	0	0.0%	100.0%	-	1.0E+00	9.4E-01	-	-	-	-	-	-	X	-	Never detected. Though median RL is > 2X PQL, the RL during RI was < PQL.	Not a COPC	
Carbazole	-	1.0E+00	150	119	0	31	0	20.7%	0.0%	9.3E-01	1.0E+00	1.0E-03	X	-	-	-	-	-	-	-		Not a COPC	
Dibutyl phthalate	8.0E+00	1.0E+00	183	180	0	3	0	1.6%	0.0%	1.1E+00	1.0E+00	9.4E-01	-	-	-	X	X	X	-	-		Not a COPC	
Diethyl phthalate	9.3E+01	1.0E+00	137	124	0	13	0	9.5%	0.0%	1.4E+00	1.0E+00	9.6E-01	-	-	-	X	-	X	-	-		Not a COPC	
Dimethyl phthalate	5.9E+01	1.0E+00	137	137	0	0	0	0.0%	0.0%	-	1.0E+00	9.6E-01	-	X	X	X	X	X	-	-		Not a COPC	
Di-n-octyl phthalate	2.3E+00	2.0E-01	137	137	0	0	0	0.0%	0.0%	-	1.0E+00	9.6E-01	-	X	-	X	X	X	-	-		Not a COPC	
Hexachlorobenzene	5.0E-06	2.0E-01	137	137	137	0	0	0.0%	100.0%	-	1.0E+00	9.6E-01	-	-	-	-	-	-	X	-	Never detected; though the median RL is > 2X PQL, the median RL during RI <PQL.	Not a COPC	
Hexachlorobutadiene	1.0E-02	2.0E-01	165	165	165	0	0	0.0%	100.0%	-	1.0E+00	2.0E-01	-	-	X	-	-	-	-	-		Not a COPC	
Hexachlorocyclopentadiene	1.0E+00	1.0E+00	49	49	5	0	0	0.0%	10.2%	-	5.0E+00	1.0E-01	-	X	X	-	X	-	-	-		Not a COPC	
Hexachloroethane	2.0E-02	2.0E-01	49	49	49	0	0	0.0%	100.0%	-	1.0E+00	4.0E-02	-	-	X	-	-	-	-	-		Not a COPC	
Isophorone	1.1E+02	1.0E+00	49	49	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	-	X	X	X	X	X	-	-		Not a COPC	
Nitrobenzene	1.0E+02	1.0E+00	49	49	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	-	X	X	X	X	X	-	-		Not a COPC	
n-Nitrosodimethylamine	3.4E-01	4.0E-01	19	19	1	0	0	0.0%	5.3%	-	1.5E+00	4.0E-02	-	X	X	-	X	-	-	-		Not a COPC	
n-Nitrosodi-n-propylamine	5.8E-02	2.0E-01	49	49	5	0	0	0.0%	10.2%	-	5.0E+00	4.0E-02	-	-	X	-	-	-	-	-		Not a COPC	
n-Nitrosodiphenylamine	5.5E-01	2.0E-01	183	183	92	0	0	0.0%	50.3%	-	1.0E+01	9.4E-01	-	-	-	-	-	-	X	-	Never detected. RLs during the RI < PCUL.	Not a COPC	
Pentachlorophenol	2.0E-03	1.0E+00	183	183	183	0	0	0.0%	100.0%	-	5.2E+00	4.7E+00	-	-	-	-	-	-	X	-	Never detected. RLs during the RI < PQL.	Not a COPC	
Phenol	1.0E+02	1.0E+00	137	136	0	1	0	0.7%	0.0%	1.0E-01	1.0E+00	9.6E-01	-	-	-	X	X	X	-	-		Not a COPC	

Table 38: Evaluation Summary Table - COPCs in Groundwater

Statistics[1]													Evaluation[2]									Summary[3]	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Total Petroleum Hydrocarbons																							
Diesel Range	5.0E+02	1.0E+02	503	325	1	178	102	35.4%	20.5%	1.6E+05	4.0E+04	2.0E+02	-	-	-	-	-	-	-	X	Retained in groundwater in Area 1, Area 2, Former Storage Area in southwest corner of Site, in northwest corner of Site, and at Former Steam Clean Area.	COPC in Limited Areas	Diesel Range
Gasoline Range	1.0E+03	5.0E+01	353	276	0	77	14	21.8%	4.0%	5.9E+04	5.0E+02	1.0E+02	-	-	-	-	-	-	-	X	Retained in Area 3 near northernmost UST excavation.	COPC in Limited Areas	Gasoline Range
Oil Range	5.0E+02	2.0E+02	316	268	29	48	34	15.2%	19.9%	3.4E+05	1.0E+03	4.2E+02	-	-	-	-	-	-	-	X	Retained in groundwater in Area 1, Area 2, Former Storage Area in southwest corner of Site, and at Former Steam Clean Area.	COPC in Limited Areas	Oil Range
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	7.1E+00	2.0E-01	48	48	0	0	0	0.0%	0.0%	-	4.0E-02	4.0E-02	-	X	X	X	X	X	-	-		Not a COPC	
1,1,1-Trichloroethane	5.4E+03	2.0E-01	310	304	0	6	0	1.9%	0.0%	4.2E+00	2.0E+03	5.0E-01	-	-	-	X	X	X	-	-		Not a COPC	
1,1,2,2-Tetrachloroethane	3.0E-01	2.0E-01	118	118	40	0	0	0.0%	33.9%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-		Not a COPC	
1,1,2-Trichloroethane	9.0E-01	2.0E-01	118	117	38	1	0	0.8%	32.2%	2.5E-01	5.0E+01	2.0E-01	-	-	-	-	-	-	X	-	Never detected > PCUL. Only small subset of RLs > 10X PCUL; median RL < PCUL.	Not a COPC	
1,1-Dichloroethane	1.1E+01	2.0E-01	335	275	15	60	1	17.9%	4.8%	1.9E+01	2.0E+03	1.0E+00	-	-	-	-	-	-	X	-	One monitoring well (PL2JF01A) exceeded the PCUL in 1995, but concentrations reduced to below the PCUL. Though some wells have had RLs > 2X PCUL, more recent samples from the same wells have been ND with RLs < PCUL.	Not a COPC	
1,1-Dichloroethene	1.3E+02	1.0E-01	521	508	1	13	0	2.5%	0.2%	1.0E+01	2.0E+03	2.0E-01	-	-	-	-	-	-	X	-	Never detected > PCUL. One RL > 10X PCUL, but all other RLs < PCUL.	Not a COPC	
1,1-Dichloropropene	-	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	X	-	-	-	-	-				Not a COPC	
1,2,3-Trichlorobenzene	7.3E+03	5.0E-01	3	3	0	0	0	0.0%	0.0%	-	5.0E-01	5.0E-01	-	X	X	X	X	X				Not a COPC	
1,2,3-Trichloropropane	6.8E+00	2.0E-01	48	48	0	0	0	0.0%	0.0%	-	1.3E-01	1.3E-01	-	X	X	X	X	X		-		Not a COPC	
1,2,4-Trimethylbenzene	2.4E+02	2.0E-01	94	84	1	10	0	10.6%	1.1%	8.4E-01	2.0E+03	2.0E-01	-	-	-	-	-	-	X	-	Never detected > PCUL. One RL > 10X PCUL, but all other RLs < PCUL.	Not a COPC	
1,2-Dibromo-3-chloropropane	4.2E-02	5.0E-01	48	48	48	0	0	0.0%	100.0%	-	3.7E-01	3.7E-01	-	X	X	-	X	-	-	-		Not a COPC	
1,2-Dichloroethane (EDC)	3.5E+00	2.0E-01	336	329	26	7	0	2.1%	7.7%	5.1E-01	2.0E+03	5.0E-01	-	-	-	-	-	-	X	-	Never detected > PCUL. Though some wells have had RLs > 10X PCUL, more recent samples from the same wells have had RLs < PCUL.	Not a COPC	
1,2-Dichloropropane	3.1E+00	2.0E-01	118	118	5	0	0	0.0%	4.2%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-		Not a COPC	
1,3,5-Trimethylbenzene	1.7E+02	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X				Not a COPC	

Table 38: Evaluation Summary Table - COPCs in Groundwater

Statistics[1]													Evaluation[2]									Summary[3]	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
1,3-Dichloropropane	2.5E+06	2.0E-01	48	48	0	0	0	0.0%	0.0%	-	6.0E-02	6.0E-02	-	X	X	X	X	X	-	-		Not a COPC	
2,2-Dichloropropane	-	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	X	-	-	-	-	-				Not a COPC	
2-Chloroethyl vinyl ether	-	1.0E+00	93	88	0	4	0	4.3%	0.0%	2.5E-01	2.5E+02	3.8E-01	X	-	-	-	-	-	-	-		Not a COPC	
2-Chlorotoluene	6.2E+05	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X				Not a COPC	
2-Hexanone	7.3E+03	2.0E+00	70	70	0	0	0	0.0%	0.0%	-	2.5E+02	5.0E+00	-	X	-	X	X	X	-	-		Not a COPC	
4-Chlorotoluene	6.3E+05	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X				Not a COPC	
4-Isopropyltoluene	-	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	X	-	-	-	-	-				Not a COPC	
Acetone	3.4E+08	2.0E+00	253	245	0	8	0	3.2%	0.0%	3.2E+01	1.0E+04	5.0E+00	-	-	-	X	X	X	-	-		Not a COPC	
Acrolein	1.1E+00	5.0E+00	3	3	3	0	0	0.0%	100.0%	-	5.0E+00	5.0E+00	-	X	X	-	X	-				Not a COPC	
Acrylonitrile	2.8E-02	1.0E+00	3	3	3	0	0	0.0%	100.0%	-	1.0E+00	1.0E+00	-	-	X	-	-	-				Not a COPC	
Benzene	1.6E+00	2.0E-01	622	527	47	95	41	15.3%	14.1%	1.2E+03	2.0E+03	5.0E-01	-	-	-	-	-	-	-	X	Retain at MW-58 and in northwest corner of Site.	COPC in Limited Areas	Benzene
Bromobenzene	6.3E+02	2.0E-01	48	48	0	0	0	0.0%	0.0%	-	6.0E-02	6.0E-02	-	X	X	X	X	X	-	-		Not a COPC	
Bromochloromethane	-	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	X	-	-	-	-	-				Not a COPC	
Bromoethane	-	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	X	-	-	-	-	-				Not a COPC	
Bromoform	1.2E+01	2.0E-01	118	118	4	0	0	0.0%	3.4%	-	5.0E+01	2.0E-01	-	X	X	-	X	-	-	-		Not a COPC	
Bromomethane	1.1E+01	5.0E-01	118	118	4	0	0	0.0%	3.4%	-	5.0E+01	5.0E-01	-	X	X	-	X	-	-	-		Not a COPC	
Carbon disulfide	8.4E+02	2.0E-01	273	269	1	4	0	1.5%	0.4%	1.1E+00	2.0E+03	1.0E+00	-	-	-	-	X	-	-	-		Not a COPC	
Carbon tetrachloride	3.5E-01	2.0E-01	118	118	40	0	0	0.0%	33.9%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-		Not a COPC	
Chlorobenzene	2.0E+02	2.0E-01	310	275	1	35	0	11.3%	0.3%	4.7E+01	2.0E+03	5.0E-01	-	-	-	-	-	-	X	-	Never detected > PCUL. Only one RL > PCUL. Median RL < PCUL.	Not a COPC	
Chloroethane	1.5E+04	2.0E-01	310	297	0	13	0	4.2%	0.0%	5.4E+03	2.0E+03	1.0E+00	-	-	-	X	X	X	-	-		Not a COPC	
Chloroform	1.2E+00	2.0E-01	310	298	37	12	4	3.9%	13.2%	5.0E+02	2.0E+03	1.0E+00	-	-	-	-	-	-	X	-	Historic PCUL exceedances (detections and RLs) at locations with more recent results that do not show exceedances. Median RL < PCUL.	Not a COPC	
Chloromethane	1.5E+02	3.0E-01	310	306	1	4	0	1.3%	0.3%	4.8E+01	2.0E+03	1.0E+00	-	-	-	-	-	-	X	-	Never detected > PCUL. Only one RL > PCUL. Median RL < PCUL.	Not a COPC	
cis-1,2-Dichloroethene	1.8E+02	2.0E-01	484	349	0	135	22	27.9%	4.5%	2.6E+04	2.5E+01	2.0E-01	-	-	-	-	-	-	X	-	Historical PCUL exceedances occurred in two wells (PL2-JF01AR and PL2-JF01B). Concentrations within the wells reduced to below PCULs. RLs < PCUL.	Not a COPC	
cis-1,3-Dichloropropene	1.2E+00	2.0E-01	115	115	5	0	0	0.0%	4.3%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-		Not a COPC	

Table 38: Evaluation Summary Table - COPCs in Groundwater

Statistics[1]													Evaluation[2]									Summary[3]	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Dibromochloromethane	2.2E+00	2.0E-01	118	118	6	0	0	0.0%	5.1%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-		Not a COPC	
Dibromomethane	8.7E+01	2.0E-01	48	48	0	0	0	0.0%	0.0%	-	1.5E-01	1.5E-01	-	X	X	X	X	X	-	-		Not a COPC	
Dichlorobromomethane	1.4E+00	2.0E-01	118	118	7	0	0	0.0%	5.9%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-		Not a COPC	
Dichlorodifluoromethane (CFC-12)	4.2E+00	2.0E-01	48	46	0	2	0	4.2%	0.0%	5.0E-01	5.0E-02	5.0E-02	-	-	-	X	X	X	-	-		Not a COPC	
Ethane	-	1.2E+00	23	22	0	1	0	4.3%	0.0%	6.0E+00	1.2E+00	1.2E+00	X	-	-	-	-	-	-	-		Not a COPC	
Ethylbenzene	2.1E+01	2.0E-01	490	436	11	53	12	10.8%	4.7%	1.9E+03	2.0E+03	1.0E+00	-	-	-	-	-	-	-	X	Retain at MW-58. Other locations with exceedances have reduced to below PCULs.	COPC in Limited Areas	Ethylbenzene
Ethylene	-	1.1E+00	23	23	0	0	0	0.0%	0.0%	-	1.1E+00	1.1E+00	X	-	-	-	-	-				Not a COPC	
Ethylene dibromide (EDB)	3.0E-01	1.0E-01	48	48	0	0	0	0.0%	0.0%	-	7.0E-02	7.0E-02	-	X	X	X	X	X	-	-		Not a COPC	
Isopropylbenzene (Cumene)	9.1E+02	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X				Not a COPC	
m,p-Xylene	1.1E+02	4.0E-01	260	238	0	22	0	8.5%	0.0%	8.2E+01	5.0E+01	1.4E-01	-	-	-	X	-	X	-	-		Not a COPC	
Methane	-	6.5E-01	23	0	0	23	0	100.0%	0.0%	9.3E+03	-	-	X	-	-	-	-	-				Not a COPC	
Methyl ethyl ketone (MEK)	1.7E+06	5.0E+00	68	68	0	0	0	0.0%	0.0%	-	2.5E+02	5.0E+00	-	X	X	X	X	X	-	-		Not a COPC	
Methyl iodide	-	1.0E+00	3	3	0	0	0	0.0%	0.0%	-	1.0E+00	1.0E+00	X	-	-	-	-	-				Not a COPC	
Methyl isobutyl ketone (MIBK)	4.7E+05	5.0E+00	65	65	0	0	0	0.0%	0.0%	-	2.5E+02	5.0E+00	-	X	X	X	X	X	-	-		Not a COPC	
Methyl Tert-Butyl Ether (MTBE)	8.0E+02	2.0E-01	18	18	0	0	0	0.0%	0.0%	-	1.4E-01	1.4E-01	-	X	X	X	X	X	-	-		Not a COPC	
Methylene chloride	1.0E+02	5.0E-01	118	117	0	1	0	0.8%	0.0%	5.0E-01	1.0E+02	5.0E-01	-	-	-	-	X	X	-	-		Not a COPC	
n-Butylbenzene	4.2E+05	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X				Not a COPC	
n-Propylbenzene	2.3E+03	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X				Not a COPC	
sec-Butylbenzene	9.4E+05	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X				Not a COPC	
Styrene	8.5E+03	2.0E-01	70	70	0	0	0	0.0%	0.0%	-	5.0E+01	1.0E+00	-	X	-	X	X	X	-	-		Not a COPC	
tert-Butylbenzene	1.2E+06	2.0E-01	3	3	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X				Not a COPC	
Tetrachloroethene (PCE)	2.9E+00	2.0E-01	519	501	31	18	0	3.5%	6.0%	2.8E+00	2.0E+03	2.0E-01	-	-	-	-	-	-	X	-	Never detected > PCUL. Some historic RLs > 10X PCUL, but median RL < PCUL.	Not a COPC	
Toluene	1.0E+02	2.0E-01	622	555	1	67	7	10.8%	1.3%	1.4E+04	2.0E+03	1.0E+00	-	-	-	-	-	-	X	-	Low number of exceedances at locations that showed clear reduction to < PCUL. Median RL < PCUL.	Not a COPC	
Total xylenes	1.1E+02	5.0E-01	527	469	1	58	7	11.0%	1.5%	9.5E+03	2.0E+03	5.0E-01	-	-	-	-	-	-	X	-	Low number of exceedances at locations that showed clear reduction to < PCUL. Median RL < PCUL.	Not a COPC	
trans-1,2-Dichloroethene	7.7E+01	2.0E-01	520	493	3	27	0	5.2%	0.6%	2.5E+01	2.0E+03	2.0E-01	-	-	-	-	-	-	X	-	Never detected > PCUL. Three samples had RLs > PCUL. Median RL < PCUL.	Not a COPC	

Table 38: Evaluation Summary Table - COPCs in Groundwater

Statistics[1]													Evaluation[2]									Summary[3]	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
trans-1,3-Dichloropropene	1.2E+00	2.0E-01	118	118	6	0	0	0.0%	5.1%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-		Not a COPC	
trans-1,4-Dichloro-2-butene	-	1.0E+00	3	3	0	0	0	0.0%	0.0%	-	1.0E+00	1.0E+00	X	-	-	-	-	-				Not a COPC	
Trichloroethene (TCE)	7.0E-01	2.0E-01	521	473	157	48	24	9.2%	34.7%	3.8E+01	2.0E+03	2.0E-01	-	-	-	-	-	-	-	X	Retain at northwest corner of Site due to exceedances at MW-70 and historic exceedances at other wells. Retain at MW-49.	COPC in Limited Areas	Trichloroethene (TCE)
Trichlorofluoromethane (CFC-11)	1.2E+02	2.0E-01	118	118	0	0	0	0.0%	0.0%	-	5.0E+01	2.0E-01	-	X	X	X	X	X	-	-		Not a COPC	
Trichlorotrifluoroethane (CFC-113)	1.7E+02	2.0E-01	67	67	0	0	0	0.0%	0.0%	-	1.0E+02	2.0E+00	-	X	-	X	X	X	-	-		Not a COPC	
Vinyl acetate	8.1E+03	2.0E-01	70	70	0	0	0	0.0%	0.0%	-	2.5E+02	5.0E+00	-	X	-	X	X	X	-	-		Not a COPC	
Vinyl chloride	1.8E-01	2.0E-02	522	319	162	203	167	38.9%	63.0%	1.6E+04	2.0E+03	2.0E-01	-	-	-	-	-	-	-	-		Sitewide COPC	Vinyl chloride
Per- and Polyfluoroalkyl Substances																							
GenX (HFPO-DA)	2.4E-02	-	46	46	0	0	0	0.0%	0.0%	-	-	-	-	-	-	-	X	X	X	-	-	Not a COPC	
Perfluorobutanesulfonic acid (PFBS)	1.3E+05	-	69	6	0	63	0	91.3%	0.0%	4.4E-01	-	-	-	-	-	-	X	-	X	-	-	Not a COPC	
Perfluorohexanesulfonic acid (PFHxS)	na	-	69	0	0	69	0	100.0%	0.0%	3.8E+00	-	-	-	-	-	-	X	-	#####	-	-	Not a COPC	
Perfluorohexanoic acid (PFHxA)	6.4E+03	-	46	4	0	42	0	91.3%	0.0%	1.0E+00	-	-	-	-	-	-	X	-	X	-	-	Not a COPC	
Perfluorononanoic acid (PFNA)	1.0E+01	-	69	31	0	38	0	55.1%	0.0%	2.7E-03	-	-	-	-	-	-	X	-	X	-	-	Not a COPC	
Perfluorooctanesulfonic acid (PFOS)	1.1E+00	-	69	1	0	60	7	87.0%	10.1%	1.5E+01	-	-	-	-	-	-	-	-	-	-	X	Retain with PFAS Release Area	COPC in Limited Areas	Perfluorooctanesulfonic acid (PFOS)
Perfluorooctanoic acid (PFOA)	1.2E+02	-	69	1	0	68	0	98.6%	0.0%	3.5E-01	-	-	-	-	-	-	X	-	X	-	-	Not a COPC	

NOTES:

1 Definitions of Statistics:

Sample Count = number of samples analyzed for the compound.

ND Count = number of analyzed samples in which the compound was not detected above laboratory reporting limit.

ND > PCUL = number of analyzed samples in which the compound was not detected and RL exceeded the PCUL.

Detect Count = number of analyzed samples in which the compound was detected.

Detect > PCUL = number of analyzed samples in which the compound was detected at a concentration exceeding the PCUL.

Frequency of Detection = percentage of analyzed samples in which the compound was detected.

Frequency of Exceedance = percentage of analyzed samples in which the compound was either detected at a concentration exceeding the PCUL or was not detected with an RL exceeding the PCUL.

Maximum Detection = maximum detected concentration.

Maximum RL = maximum reporting limit for non-detect samples.

Median RL = median reporting limit achieved for non-detect samples.

2 Definitions of Evaluation Criteria (an X indicates the criteria is met for a compound):

No PCUL Established = no screening level has been established for the compound.

Table 38: Evaluation Summary Table - COPCs in Groundwater

Statistics[1]													Evaluation[2]										Summary[3]	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (see comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound

Never Detected = the compound was never detected (Detect Count = 0).
Maximum RL < 10X PCUL = maximum RL for non-detect samples is less than ten times the PCUL.
Median RL < 2X PQL = the median RL for non-detect samples is less than twice the PQL.
Maximum Detect/RL < PCUL = the maximum detected concentration and maximum reporting limit for non-detect samples were below the PCUL.
Frequency of Detection <= 5% = the frequency of detection is not more than 5%.
Maximum RL <= 10X PCUL = maximum reporting limit for non-detect samples was no more than 10 times the PCUL.
Maximum Detect <= 2X PCUL = the maximum detected concentration was not more than twice the PCUL.
Maximum Detect/RL <= 2X PCUL = the maximum detected concentration and maximum RL for non-detect samples are not more than twice the PCUL.
Frequency of Exceedance <= 10% = the frequency of exceedance is not more than 10%.
Other = chemical-specific basis (explained in comments).
Retained in Portion of Site = review of the data suggests that the compound is of concern in only a portion of the Site (explained in comments).

a Screened against the most stringent PCUL for non-potable groundwater; if not available, screened against PCUL for potable groundwater. PCULs established by Ecology (March, 2024). Iron screened against background concentration.

b PQL by surveying three laboratories. Value represents minimum PQL achievable for the compound.

This tables provides the COPC evaluation for groundwater. Statistics do not include offsite samples or grab groundwater samples (only samples taken from monitoring wells included).

Concentrations are in micrograms per liter.

COPC = chemical of potential concern; ND = non-detect; PAH = polycyclic aromatic hydrocarbon; PCB = polychlorinated biphenyl; PCUL = Preliminary Cleanup Level; PFAS = per- and polyfluoroalkyl substances; PQL = practical quantitation limit; RL = reporting limit; TEQ = toxic equivalency; TPH = total petroleum hydrocarbons; TSA = Tote Storage Area; - = not applicable or not available

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Metals																								
Aluminum	3.3E+04	5.0E+00	25	0	0	25	0	100.0%	0.0%	2.4E+04	-	-	-	-	-	X	-	X	-	-		Not a COPC	
Antimony	5.2E+00	1.0E-01	21	20	14	1	0	4.8%	66.7%	5.0E+00	3.0E+01	6.0E+00	-	-	-	-	X	-	-	-		Not a COPC	
Arsenic	7.3E+00	2.0E-01	332	91	53	241	60	72.6%	34.0%	1.8E+02	3.0E+01	1.1E+01	-	-	-	-	-	-	-	-		Sitewide COPC	Arsenic
Barium	2.5E+02	1.0E-01	265	6	0	259	1	97.7%	0.4%	2.9E+02	2.0E-01	2.0E-01	-	-	-	-	-	X	-	-		Not a COPC	
Beryllium	3.8E+00	1.0E-01	28	7	0	21	0	75.0%	0.0%	3.0E-01	1.0E-01	1.0E-01	-	-	-	X	-	X	-	-		Not a COPC	
Cadmium	7.7E-01	1.0E-01	331	176	18	155	36	46.8%	16.3%	2.9E+01	1.3E+00	3.0E-01	-	-	-	-	-	-	X	-	Not a COPC in groundwater. PCUL is set at natural background. More stringent values (based on the groundwater pathway) do not apply. Alternative values include bank erosion (5.1 mg/kg), direct contact (80 mg/kg), and Simplified TEE (36 mg/kg). Six samples exceeded the bank erosion value, including two samples that are not adjacent to the shoreline and are within a paved area and four that are within or adjacent to the JFOS remediation area. Samples were not taken from the surface and are not subject to erosion. Direct contact and Simplified TEE values are not exceeded.	Not a COPC	
Chromium	4.8E+01	1.0E-01	307	8	0	299	60	97.4%	19.5%	6.5E+03	2.0E-02	2.0E-02	-	-	-	-	-	-	-	X	Not a COPC for groundwater. PCUL is set at natural background for total chromium of 48 mg/kg. Hexavalent chromium was not detected within analyzed soil samples. Alternative values include direct contact (120,000 mg/kg) and protection of sediment via bank erosion (370,000 mg/kg) for trivalent chromium. All detections were below these values. Samples in unpaved areas exceed the Simplified TEE (135 mg/kg) from MTCA Table 749-2). Simplified TEE exceedances (not included within statistics) also occurred within samples associated with dust inside former main building (chromium up 6,620 mg/kg). These areas have been paved. Retain in unpaved areas only.	COPC in Limited Areas	Chromium

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Hexavalent Chromium	6.9E-03	4.0E-01	14	14	14	0	0	0.0%	100.0%	-	6.0E-02	1.0E-02	-	X	X	-	X	-	-	X		Retained in groundwater at MW-39. Not detected within soil samples taken during the RI. Star Forge identified hexavalent chromium in soil below the north slab of the former Melt Bag House at concentrations up to 2.8 mg/kg (not included within statistics). These values exceed screening direct contact screening level of 0.38 mg/kg. Retain at former Melt Bag House north slab.	COPC in Limited Areas	Hexavalent Chromium
Cobalt	2.4E+01	1.0E-01	188	0	0	188	0	100.0%	0.0%	1.7E+01	-	-	-	-	-	X	-	X	-	X		Exceedances (not included within statistics) occurred within samples associated with dust inside former main building (cobalt up to 59.2 mg/kg above direct contact value of 24 mg/kg). These areas have been paved. Retain in former unpaved areas of main building.	COPC in Limited Areas	Cobalt
Copper	3.6E+01	1.0E-01	309	0	0	309	77	100.0%	24.9%	9.6E+02	-	-	-	-	-	-	-	-	-	X		Retained in groundwater at MW-37, MW-61, MW-68, and MW-72. PCUL is set at natural background due to groundwater-based values being lower. PCUL exceedances occurred at MW-37, MW-61, and MW-68 (not at MW-72). At locations where copper is not a COPC in groundwater, the next most stringent values to consider are bank erosion (390 mg/kg), Simplified TEE (550 mg/kg), and direct contact (3,200 mg/kg). The bank erosion value exceeded at SB3 (541 mg/kg at 2 to 4 feet bgs); this location is paved and not immediately adjacent to the top of the bank. Bank erosion and TEE values exceeded at SB6 and T2B4. SB6 is behind the sheet pile wall (not subject to erosion) and paved (not subject to TEE). Exceedances at T2B4 occurred within samples taken from 18 to 20 feet bgs (not subject to erosion). Retain at MW-37, MW-61, and within the Former Storage Area in southwest corner of the Site (MW-68 is within this area).	COPC in Limited Areas	Copper
Iron	5.6E+04	5.0E+00	14	0	0	14	0	100.0%	0.0%	1.9E+04	-	-	-	-	-	X	-	X	-	-			Not a COPC	

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]								Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Lead	5.6E+01	1.0E-01	332	50	0	282	61	84.9%	18.4%	6.6E+03	1.0E+01	5.9E+00	-	-	-	-	-	-	-	X	Not a COPC for groundwater. PCUL is set at 56 mg/kg (based on groundwater pathway). Alternative values include Simplified TEE (220 mg/kg) and direct contact (250 mg/kg). Simplified TEE and direct contact values exceeded at locations along west end of Site, in the Former Storage Area at the southwest corner of the Site, and at MW-37. Retain in these areas.	COPC in Limited Areas	Lead
Manganese	1.1E+03	1.0E-01	7	0	0	7	0	100.0%	0.0%	3.6E+02	-	-	-	-	-	X	-	X	-	-		Not a COPC	
Mercury, inorganic	7.0E-02	2.0E-02	296	130	56	166	37	56.1%	31.4%	1.1E+00	3.6E-01	6.0E-02	-	-	-	-	-	-	-	X	-	Not a COPC in groundwater. PCUL is set at natural background (0.07 mg/kg). More stringent values (based on the groundwater pathway) do not apply. Alternative values include protection of sediment via bank erosion (0.2 mg/kg) and Simplified TEE (9 mg/kg). Maximum detection and maximum RL are below the Simplified TEE. Samples that exceed the bank erosion value are not within vicinity of the bank, are behind the sheet pile wall, or are at depths not subject to erosion. Detections (not included within statistics) within samples associated with dust inside former main building (mercury up to 0.184 mg/kg) are not near the bank and are paved.	Not a COPC	
Nickel	4.8E+01	1.0E-01	294	0	0	294	48	100.0%	16.3%	5.6E+03	-	-	-	-	-	-	-	-	-	-	X	Retained in groundwater at MW-65 and MW-73. Nickel was not detected above the PCUL within soil at MW-65 and MW-73. At locations where nickel is not a COPC in groundwater, the next most stringent value to consider is direct contact. Direct contact value exceeded at SB-2021-011 (in the former unpaved storage area in southwest corner of the Site), at SB3, and at SB6. Retain in soil at the Former Storage Area in southwest corner of Site, at SB3, and at SB6.	COPC in Limited Areas	Nickel

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Selenium	7.8E-01	5.0E-01	268	102	73	166	121	61.9%	72.4%	8.0E+00	1.4E+01	7.0E+00	-	-	-	-	-	-	-	X	Not a COPC in groundwater. PCUL is based on natural background. Alternative values include Simplified TEE and direct contact. Direct contact value is not exceeded. The TEE value has been exceeded. Detections (not included within statistics) within samples associated with dust inside former main building (selenium up to 21 mg/kg) are above the TEE value but not direct contact, and are paved. Retain in soil in unpaved areas of the Site.	COPC in Limited Areas	Selenium
Silver	6.1E-01	1.0E-01	305	103	28	202	16	66.2%	14.4%	3.6E+00	2.0E+00	5.6E-01	-	-	-	-	-	-	X	-	Not a COPC in groundwater. PCUL is based on natural background. Alternative values include bank erosion and direct contact. Max detect and max RL < direct contact and bank erosion values. Detections (not included within statistics) within samples associated with dust inside former main building (silver up to 2.66 mg/kg) do not exceed direct contact or bank erosion values.	Not a COPC	
Thallium	4.4E-03	2.0E-01	28	28	28	0	0	0.0%	100.0%	-	7.0E+00	6.0E+00	-	-	-	-	-	-	X	-	Though RLs exceed ten times the PCUL (data from the 1990s), it was never detected and there is no reason to suspect.	Not a COPC	
Vanadium	4.5E+01	1.0E-01	188	0	0	188	56	100.0%	29.8%	2.4E+02	-	-	-	-	-	-	-	-	-	X	Not a COPC in groundwater. The PCUL is based on natural background (45 mg/kg). Alternative values include Simplified TEE (26 mg/kg) which is lower than natural background and direct contact (720 mg/kg). The natural background value has been exceeded. Detections (not tabulated here) within samples associated with dust inside former main building (vanadium up to 94.5 mg/kg) exceed natural background; however these areas are paved. They do not exceed direct contact value. Retained in unpaved areas of the Site.	COPC in Limited Areas	Vanadium

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5%	Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Zinc	8.5E+01	5.0E-01	308	0	0	308	68	100.0%	22.1%	3.5E+04	-	-	-	-	-	-	-	-		X	Not a COPC in groundwater. The PCUL is based on background. Alternative values include bank erosion, Simplified TEE, and direct contact. Direct contact is not exceeded. The bank erosion value is exceeded at locations within proximity of the bank that remain. The TEE value is exceeded at unpaved locations in the northwest corner of Site. Detections (not included within statistics) within samples associated with dust inside former main building (zinc up to 1,550 mg/kg) exceed bank erosion and TEE values; however these areas are not close to the top of bank and they are paved. They do not exceed direct contact values. Retain in northwest corner of Site and in shoreline wedge.	COPC in Limited Areas	Zinc
Polychlorinated Biphenyls																								
Total PCB Aroclors	5.5E-07	2.0E-02	531	181	180	350	350	65.9%	99.8%	1.0E+03	9.3E+01	4.4E-02	-	-	-	-	-	-	-	X	Retained in groundwater at MW-39 and MW-68. In areas where PCBs are not a COPC in groundwater, alternative values include direct contact (1 mg/kg), bank erosion (0.13 mg/kg), and Simplified TEE (2 mg/kg). Exceedances occur within the Former Storage Area at the southwest corner of the Site, at three locations along the shoreline, and near OA-11.	COPC in Limited Areas	Total PCB Aroclors
Carcinogenic Polycyclic Aromatic Hydrocarbons																								
Benzo(a)pyrene	1.6E-05	5.0E-04	226	71	71	155	155	68.6%	100.0%	7.3E-01	1.8E-01	5.8E-02	-	-	-	-	-	-	X	-	See Total cPAH TEQ		Not a COPC	
Benzo(a)anthracene	1.1E+02	5.0E-04	226	55	0	171	0	75.7%	0.0%	7.3E-01	1.8E-01	6.2E-02	-	-	-	X	-	X	-	-			Not a COPC	
Benzo(b)fluoranthene		5.0E-04	182	15	0	167	0	91.8%	0.0%	7.9E-01	8.7E-02	7.5E-03	-	-	-	-	-	-	X	-	See Total cPAH TEQ		Not a COPC	
Benzo(k)fluoranthene		5.0E-04	182	42	0	140	0	76.9%	0.0%	3.0E-01	8.7E-02	1.0E-04	-	-	-	-	-	-	X	-	See Total cPAH TEQ		Not a COPC	
Chrysene	1.1E+02	2.0E-02	226	47	0	179	0	79.2%	0.0%	8.0E-01	1.8E-01	6.1E-02	-	-	-	X	-	X	-	-			Not a COPC	
Dibenz(a,h)anthracene	1.2E+01	5.0E-04	226	115	0	111	0	49.1%	0.0%	4.2E-01	1.8E-01	3.0E-03	-	-	-	X	-	X	-	-			Not a COPC	
Indeno(1,2,3-cd)pyrene	3.4E+01	5.0E-04	226	80	0	146	0	64.6%	0.0%	5.3E-01	1.8E-01	1.9E-02	-	-	-	X	-	X	-	-			Not a COPC	

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5%	Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Total cPAH TEQ	1.6E-05	NA	226	42	42	184	184	81.4%	81.4%	8.2E-01	-	-	-	-	-	-	-	-	-	X	Total cPAH TEQ is a COPC in groundwater at MW-10R, MW-46, MW-64, and MW-73. MW-10R is located downgradient of Area 4. MW-73 and MW-64 are located within and downgradient of Area 2. MW-46 is located within the Former Steam Clean Area. PCUL (based on groundwater) are exceeded at these explorations or within the immediate vicinity. At locations where Total cPAH TEQ is not a COPC in groundwater, the next most stringent value to consider is direct contact. Direct contact value exceeded on the bank and at SB4 excavation. Retain in soil within Area 4, Former Steam Clean Area, Area 2, in the shoreline wedge, and at the SB4 excavation.	COPC in Limited Areas	Total cPAH TEQ
Other Polycyclic Aromatic Hydrocarbons																							
1-Methylnaphthalene	2.3E+00	2.0E-02	210	45	0	165	2	78.6%	1.0%	3.4E+01	1.8E-01	6.2E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. The direct contact value of 34 mg/kg is the next most stringent PCUL value. One sample (10 feet bgs sample at SB--2021-006) contained 1-methylnaphthalene at 34.3 mg/kg, just slightly above direct contact value.	Not a COPC	
2-Methylnaphthalene	3.9E-02	2.0E-02	226	64	32	162	14	71.7%	20.4%	2.9E+01	1.8E-01	6.0E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
Acenaphthene	2.8E-02	2.0E-02	226	103	35	123	9	54.4%	19.5%	4.2E+00	1.8E-01	6.0E-03	-	-	-	-	-	-	X	-	COPC in groundwater at MW-31 and MW-60. PCUL not exceeded in soil at these locations. At other areas, the max detect and max RL < direct contact and bank erosion values.	Not a COPC	
Acenaphthylene	-	2.0E-02	226	105	0	121	0	53.5%	0.0%	5.2E-01	1.8E-01	4.8E-03	X	-	-	-	-	-	-	-		Not a COPC	
Anthracene	5.1E-02	2.0E-02	226	71	33	155	5	68.6%	16.8%	6.3E-01	1.8E-01	5.7E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
Benzo(g,h,i)perylene	3.1E+01	2.0E-02	226	62	0	164	0	72.6%	0.0%	4.9E-01	1.8E-01	6.0E-02	-	-	-	X	-	X	-	-		Not a COPC	
Dibenzofuran	2.9E-02	2.0E-02	226	62	41	164	4	72.6%	19.9%	8.8E-01	1.8E-01	6.0E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
Fluoranthene	9.0E-02	2.0E-02	226	61	4	165	15	73.0%	8.4%	9.3E-01	1.8E-01	1.9E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
Fluorene	2.9E-02	2.0E-02	226	84	35	142	7	62.8%	18.6%	6.1E+00	1.8E-01	1.9E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Naphthalene	2.1E-03	1.0E-03	252	94	63	158	101	62.7%	65.1%	3.9E+00	3.3E+00	7.9E-03	-	-	-	-	-	-	-	X	COPC in groundwater at MW-46 (Former Steam Clean Area), MW-58, and MW-69. At other areas, the max detect and max RL < direct contact and bank erosion values. Retain at the Former Steam Clean Area, MW-58, and at MW-69/MW-70.	COPC in Limited Areas	Naphthalene
Phenanthrene	1.0E+02	2.0E-02	226	33	0	193	0	85.4%	0.0%	1.3E+01	1.8E-01	6.3E-02	-	-	-	X	-	X	-	-		Not a COPC	
Pyrene	1.4E-01	2.0E-02	226	54	1	172	12	76.1%	5.8%	1.4E+00	1.8E-01	6.0E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
Semi-Volatile Organic Compounds																							
1,2,4-Trichlorobenzene	7.2E-05	5.0E-03	88	88	88	0	0	0.0%	100.0%	-	3.8E-01	3.4E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
1,2-Dichlorobenzene	3.0E-03	5.0E-03	95	90	63	5	3	5.3%	69.5%	2.7E-01	1.8E-01	4.0E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
1,3-Dichlorobenzene	1.3E-03	2.0E-02	61	58	47	3	1	4.9%	78.7%	2.9E-03	1.8E-01	6.0E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. PCUL based on groundwater pathway. There are no alternative values to screen against.	Not a COPC	
1,4-Dichlorobenzene	8.1E-03	2.0E-02	95	90	55	5	1	5.3%	58.9%	1.5E-01	1.8E-01	4.0E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
2,4,5-Trichlorophenol	1.1E+00	1.0E-01	43	43	0	0	0	0.0%	0.0%	-	9.1E-01	3.1E-01	-	X	-	X	X	X	-	-		Not a COPC	
2,4,6-Trichlorophenol	1.9E-04	1.0E-01	43	43	43	0	0	0.0%	100.0%	-	9.1E-01	3.1E-01	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
2,4-Dichlorophenol	4.3E-03	1.0E-01	43	43	43	0	0	0.0%	100.0%	-	1.1E+00	3.1E-01	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
2,4-Dimethylphenol	2.3E-03	2.5E-02	54	53	53	1	1	1.9%	100.0%	3.5E-02	2.7E-01	6.3E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Detected above the bank erosion value within a 10 to 20 feet bgs sample at 0.035 mg/kg (sample taken from the JFOS area). At this depth, bank erosion is not applicable. Direct contact value is not exceeded. RLs close to PQL.	Not a COPC	
2,4-Dinitrophenol	2.9E-02	1.0E-01	43	43	43	0	0	0.0%	100.0%	-	4.7E+00	6.3E-01	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
2,4-Dinitrotoluene	1.6E-04	1.0E-01	43	43	43	0	0	0.0%	100.0%	-	9.1E-01	3.1E-01	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
2,6-Dinitrotoluene	6.6E-02	1.0E-01	43	43	32	0	0	0.0%	74.4%	-	9.1E-01	3.1E-01	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Median RL < direct contact and bank erosion values.	Not a COPC	

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
2-Chloronaphthalene	2.8E-01	2.0E-02	43	43	0	0	0	0.0%	0.0%	-	1.8E-01	6.2E-02	-	X	-	X	X	X	-	-		Not a COPC	
2-Chlorophenol	1.1E-02	2.0E-02	43	43	32	0	0	0.0%	74.4%	-	1.8E-01	6.3E-02	-	-	-	-	-	-	X	-		Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
2-Methylphenol (o-Cresol)	6.4E-03	5.0E-03	54	53	51	1	1	1.9%	96.3%	1.1E-02	1.8E-01	6.2E-02	-	-	-	-	-	-	X	-		Not a COPC in groundwater. Detected once in soil. Max detect and median RL < direct contact and bank erosion values.	Not a COPC	
2-Nitroaniline	2.9E+02	1.0E-01	43	43	0	0	0	0.0%	0.0%	-	9.1E-01	3.1E-01	-	X	-	X	X	X	-	-			Not a COPC	
2-Nitrophenol	-	2.0E-02	43	43	0	0	0	0.0%	0.0%	-	5.6E-01	6.3E-02	X	-	-	-	-	-	-	-			Not a COPC	
3,3'-Dichlorobenzidine	2.0E-06	1.0E-01	43	42	42	1	1	2.3%	100.0%	3.1E-02	9.1E-01	3.1E-01	-	-	-	-	-	-	X	-		Not a COPC in groundwater. Detected once in soil. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
3-Nitroaniline	-	1.0E-01	43	43	0	0	0	0.0%	0.0%	-	9.1E-01	3.1E-01	X	-	-	-	-	-	-	-			Not a COPC	
4,6-Dinitro-2-methylphenol	7.3E-03	1.0E-01	43	43	43	0	0	0.0%	100.0%	-	1.8E+00	6.2E-01	-	-	-	-	-	-	X	-		Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
4-Bromophenyl phenyl ether	-	2.0E-02	43	43	0	0	0	0.0%	0.0%	-	1.8E-01	6.2E-02	X	-	-	-	-	-	-	-			Not a COPC	
4-Chloro-3-methylphenol	2.8E-02	1.0E-01	43	43	43	0	0	0.0%	100.0%	-	9.1E-01	3.1E-01	-	-	-	-	-	-	X	-		Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
4-Chloroaniline	9.6E-01	1.0E-01	43	43	3	0	0	0.0%	7.0%	-	1.5E+00	3.1E-01	-	X	-	-	X	X	-	-			Not a COPC	
4-Chlorophenyl phenyl ether	-	2.0E-02	43	43	0	0	0	0.0%	0.0%	-	1.8E-01	6.3E-02	X	-	-	-	-	-	-	-			Not a COPC	
4-Methylphenol (p-Cresol)	6.2E-02	5.0E-03	52	48	23	4	0	7.7%	44.2%	4.0E-02	2.2E-01	6.3E-02	-	-	-	-	-	-	X	-		Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
4-Nitroaniline	3.0E+01	1.0E-01	43	43	0	0	0	0.0%	0.0%	-	9.1E-01	3.1E-01	-	X	-	X	X	X	-	-			Not a COPC	
4-Nitrophenol	-	1.0E-01	43	43	0	0	0	0.0%	0.0%	-	9.1E-01	3.1E-01	X	-	-	-	-	-	-	-			Not a COPC	
Benzoic acid	1.7E-01	1.0E-01	49	47	36	2	1	4.1%	75.5%	1.8E-01	2.2E+00	6.2E-01	-	-	-	-	-	-	X	-		Not a COPC in groundwater. Max detect and median RL < direct contact and bank erosion values.	Not a COPC	
Benzyl alcohol	1.7E-02	2.0E-02	56	56	45	0	0	0.0%	80.4%	-	9.1E-01	3.0E-01	-	-	-	-	-	-	X	-		Not a COPC in groundwater. Never detected in soil. RLs from previous investigations exceeded the PCUL, but median RL from recent investigations < direct contact and bank erosion values.	Not a COPC	
Bis(2-chloro-1-methylethyl) ether	3.8E-02	2.0E-02	19	19	6	0	0	0.0%	31.6%	-	1.1E-01	3.8E-02	-	X	X	-	X	-	-	-			Not a COPC	
Bis(2-chloroethoxy)methane	2.1E+02	2.0E-02	43	43	0	0	0	0.0%	0.0%	-	1.8E-01	6.3E-02	-	X	-	X	X	X	-	-			Not a COPC	

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5%	Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Bis(2-chloroethyl)ether	2.2E-05	2.0E-02	43	43	43	0	0	0.0%	100.0%	-	1.8E-01	6.3E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
Bis(2-ethylhexyl) phthalate	5.1E-03	5.0E-02	58	42	42	16	16	27.6%	100.0%	8.2E-01	9.6E-01	6.3E-02	-	-	-	-	-	-	-	-		Sitewide COPC	Bis(2-ethylhexyl) phthalate
Butyl benzyl phthalate	1.8E-04	5.0E-03	59	58	58	1	1	1.7%	100.0%	4.6E-03	6.0E-01	6.2E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
Carbazole	-	2.0E-02	43	43	0	0	0	0.0%	0.0%	-	1.8E-01	6.3E-02	X	-	-	-	-	-	-	-		Not a COPC	
Dibutyl phthalate	1.5E-02	2.0E-02	56	43	32	13	11	23.2%	76.8%	7.9E-01	1.8E-01	6.1E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
Diethyl phthalate	3.4E-02	2.0E-02	43	40	32	3	2	7.0%	79.1%	3.8E-02	2.8E-01	6.3E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
Dimethyl phthalate	1.9E-02	2.0E-02	56	55	38	1	0	1.8%	67.9%	5.3E-03	1.8E-01	6.2E-02	-	-	-	-	X	-	-	-		Not a COPC	
Di-n-octyl phthalate	3.3E-01	2.0E-02	59	59	1	0	0	0.0%	1.7%	-	6.0E-01	6.2E-02	-	X	-	-	X	X	-	-		Not a COPC	
Hexachlorobenzene	4.0E-07	5.0E-03	56	56	56	0	0	0.0%	100.0%	-	1.8E-01	6.2E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
Hexachlorobutadiene	1.1E-05	5.0E-03	85	85	85	0	0	0.0%	100.0%	-	5.6E-01	3.5E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
Hexachlorocyclopentadiene	1.7E-03	1.0E-01	43	43	43	0	0	0.0%	100.0%	-	2.2E+00	3.2E-01	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
Hexachloroethane	9.7E-06	2.0E-02	43	43	43	0	0	0.0%	100.0%	-	1.8E-01	6.2E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Max RL < direct contact and bank erosion values.	Not a COPC	
Isophorone	3.9E-02	2.0E-02	43	43	30	0	0	0.0%	69.8%	-	1.8E-01	6.3E-02	-	X	-	-	X	-	-	-		Not a COPC	
Nitrobenzene	4.1E-02	2.0E-02	43	43	30	0	0	0.0%	69.8%	-	1.8E-01	6.3E-02	-	X	-	-	X	-	-	-		Not a COPC	
n-Nitrosodi-n-propylamine	3.3E-05	2.0E-02	43	43	43	0	0	0.0%	100.0%	-	1.8E-01	6.3E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Never detected in soil. Max RL exceeded bank erosion value, but median RL below direct contact and bank erosion values.	Not a COPC	
n-Nitrosodiphenylamine	1.6E-03	5.0E-03	56	51	51	5	5	8.9%	100.0%	1.4E-02	1.8E-01	6.3E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
Pentachlorophenol	1.8E-06	2.0E-02	60	59	59	1	1	1.7%	100.0%	3.8E-02	1.1E+00	3.1E-01	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and median RL below direct contact and bank erosion values.	Not a COPC	
Phenol	4.8E-02	2.0E-02	55	51	33	4	0	7.3%	60.0%	1.0E-02	1.8E-01	6.2E-02	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL < direct contact and bank erosion values.	Not a COPC	
Total benzofluoranthenes	2.3E+02	-	16	8	0	8	0	50.0%	0.0%	1.1E-01	1.0E-02	1.0E-02	-	-	-	X	-	X	-	-		Not a COPC	

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5%	Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Total Petroleum Hydrocarbons																							
Diesel range hydrocarbons	2.0E+03	2.0E+01	451	211	0	240	34	53.2%	7.5%	7.8E+04	1.0E+02	6.7E+00	-	-	-	-	-	-	-	X	Retain in Area 1, Area 2, Area 4, Former Storage Area in southwest corner of Site, and in northwest corner of Site.	COPC in Limited Areas	Diesel range hydrocarbons
Gasoline range hydrocarbons	1.0E+02	3.0E+00	147	104	0	43	26	29.3%	17.7%	9.4E+03	3.6E+01	7.1E+00	-	-	-	-	-	-	-	X	Retain in Area 2, Area 3, Area 4, and in the northwest corner.	COPC in Limited Areas	Gasoline range hydrocarbons
Oil range hydrocarbons	2.0E+03	5.0E+01	167	87	0	80	10	47.9%	6.0%	1.5E+05	1.1E+02	5.0E+01	-	-	-	-	-	-	-	X	Retain in Area 1, Area 2, Area 4, Former Storage Area in southwest corner of Site, and in northwest corner of Site.	COPC in Limited Areas	Oil range hydrocarbons
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	1.9E+01	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-		Not a COPC	
1,1,1-Trichloroethane	2.1E+01	1.0E-03	22	22	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-		Not a COPC	
1,1,2,2-Tetrachloroethane	1.1E-04	1.0E-03	22	22	22	0	0	0.0%	100.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-		Not a COPC	
1,1,2-Trichloroethane	3.3E-04	1.0E-03	22	22	22	0	0	0.0%	100.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-		Not a COPC	
1,1-Dichloroethane	1.1E+02	1.0E-03	63	63	0	0	0	0.0%	0.0%	-	1.0E-01	1.2E-03	-	X	X	X	X	X	-	-		Not a COPC	
1,1-Dichloroethylene	1.4E+00	1.0E-03	149	149	0	0	0	0.0%	0.0%	-	1.0E-01	6.6E-04	-	X	X	X	X	X	-	-		Not a COPC	
1,1-Dichloropropene		1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-		Not a COPC	
1,2,3-Trichlorobenzene	1.2E+01	5.0E-03	15	15	0	0	0	0.0%	0.0%	-	3.8E-01	5.9E-03	-	X	X	X	X	X	-	-		Not a COPC	
1,2,3-Trichloropropane	2.7E-03	2.0E-03	15	15	3	0	0	0.0%	20.0%	-	1.5E-01	2.4E-03	-	-	X	-	-	-	-	-		Not a COPC	
1,2,4-Trimethylbenzene	1.8E+02	1.0E-03	15	13	0	2	0	13.3%	0.0%	1.2E-03	7.5E-02	1.2E-03	-	-	-	X	-	X	-	-		Not a COPC	
1,2-Dibromo-3-chloropropane	1.0E-01	5.0E-03	15	15	1	0	0	0.0%	6.7%	-	3.8E-01	5.9E-03	-	X	X	-	X	-	-	-		Not a COPC	
1,2-Dichloroethane (EDC)	2.4E-02	1.0E-03	63	63	7	0	0	0.0%	11.1%	-	1.0E-01	1.2E-03	-	X	X	-	X	-	-	-		Not a COPC	
1,2-Dichloropropane	1.0E-03	1.0E-03	22	22	19	0	0	0.0%	86.4%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-		Not a COPC	
1,3,5-Trimethylbenzene	1.8E+02	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-		Not a COPC	
1,3-Dichloropropane	8.8E+02	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-		Not a COPC	
2,2-Dichloropropane		1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-		Not a COPC	
2-Chloroethyl vinyl ether		5.0E-03	22	22	0	0	0	0.0%	0.0%	-	3.8E-01	5.9E-03	-	-	X	-	-	-	-	-		Not a COPC	
2-Chlorotoluene	4.1E+02	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-		Not a COPC	
2-Hexanone	4.0E+02	5.0E-03	22	22	0	0	0	0.0%	0.0%	-	3.8E-01	5.9E-03	-	X	X	X	X	X	-	-		Not a COPC	
4-Chlorotoluene	4.2E+02	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-		Not a COPC	
4-Isopropyltoluene	-	1.0E-03	15	11	0	4	0	26.7%	0.0%	7.5E-02	7.5E-02	1.2E-03	X	-	-	-	-	-	-	-		Not a COPC	
Acetone	7.2E+04	5.0E-03	22	13	0	9	0	40.9%	0.0%	1.1E-01	3.8E-01	6.0E-03	-	-	-	X	-	X	-	-		Not a COPC	
Acrolein	3.2E-04	5.0E-03	15	15	15	0	0	0.0%	100.0%	-	3.8E+00	5.9E-02	-	-	-	-	-	-	X	-	Never detected at the Site.	Not a COPC	

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Acrylonitrile	8.3E-06	5.0E-03	15	15	15	0	0	0.0%	100.0%	-	3.8E-01	5.9E-03	-	-	X	-	-	-	-	-			Not a COPC	
Benzene	5.6E-04	1.0E-03	241	184	144	57	42	23.7%	77.2%	9.2E-01	1.0E+00	5.0E-03	-	-	-	-	-	-	-	X	Retained in groundwater at MW-58 and in northwest corner of Site. At other locations, soil detections are below direct contact and bank erosion values. Retain in soil at MW-58 and in northwest corner.		COPC in Limited Areas	Benzene
Bromobenzene	2.0E+02	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-			Not a COPC	
Bromochloromethane		1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-			Not a COPC	
Bromoethane		2.0E-03	15	15	0	0	0	0.0%	0.0%	-	1.5E-01	2.4E-03	-	-	X	-	-	-	-	-			Not a COPC	
Bromoform	5.0E-03	1.0E-03	22	22	1	0	0	0.0%	4.5%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-			Not a COPC	
Bromomethane	7.9E-02	1.0E-03	22	20	0	2	0	9.1%	0.0%	3.4E-02	2.6E-03	1.2E-03	-	-	-	X	-	X	-	-			Not a COPC	
Carbon disulfide	7.4E+03	1.0E-03	22	9	0	13	0	59.1%	0.0%	1.7E-02	7.5E-02	1.3E-03	-	-	-	X	-	X	-	-			Not a COPC	
Carbon tetrachloride	1.5E-04	1.0E-03	22	22	22	0	0	0.0%	100.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-			Not a COPC	
Chlorobenzene	1.0E-01	1.0E-03	22	20	0	2	0	9.1%	0.0%	1.9E-02	7.5E-02	1.2E-03	-	-	-	X	-	X	-	-			Not a COPC	
Chloroethane		1.0E-03	22	22	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-			Not a COPC	
Chloroform	5.2E-02	1.0E-03	22	22	1	0	0	0.0%	4.5%	-	7.5E-02	1.2E-03	-	X	X	-	X	X	-	-			Not a COPC	
Chloromethane		1.0E-03	22	22	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-			Not a COPC	
cis-1,2-Dichloroethylene	1.2E+02	1.0E-03	152	129	0	23	0	15.1%	0.0%	7.0E-02	1.0E-01	3.9E-04	-	-	-	X	-	X	-	-			Not a COPC	
cis-1,3-Dichloropropene	3.8E-04	1.0E-03	19	19	19	0	0	0.0%	100.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-			Not a COPC	
Dibromochloromethane	7.0E-04	1.0E-03	22	22	22	0	0	0.0%	100.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-			Not a COPC	
Dibromomethane	4.7E+02	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-			Not a COPC	
Dichlorobromomethane	8.9E-04	1.0E-02	22	22	22	0	0	0.0%	100.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-			Not a COPC	
Dichlorodifluoromethane (CFC-12)	1.1E+04	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-			Not a COPC	
Ethylbenzene	1.0E-02	1.0E-03	241	215	60	26	17	10.8%	32.0%	5.2E+01	7.8E-01	1.3E-03	-	-	-	-	-	-	-	X	Retained in groundwater at MW-58. At other locations, direct contact and bank erosion values are not exceeded. Retain at MW-58.		COPC in Limited Areas	Ethylbenzene
Ethylene dibromide (EDB)	2.8E-01	5.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-			Not a COPC	
Isopropylbenzene (Cumene)	1.7E+03	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-			Not a COPC	
Methyl ethyl ketone (MEK)	4.8E+04	5.0E-03	22	14	0	8	0	36.4%	0.0%	2.8E-02	3.8E-01	5.9E-03	-	-	-	X	-	X	-	-			Not a COPC	
Methyl iodide	-	1.0E-03	15	11	0	4	0	26.7%	0.0%	4.3E-02	1.4E-03	1.2E-03	X	-	-	-	-	-	-	-			Not a COPC	
Methyl isobutyl ketone (MIBK)	6.4E+03	5.0E-03	22	22	0	0	0	0.0%	0.0%	-	3.8E-01	5.9E-03	-	X	X	X	X	X	-	-			Not a COPC	
Methyl tert-butyl ether (MTBE)	5.6E+02	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-			Not a COPC	

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Methylene chloride	3.0E-02	2.0E-03	22	22	1	0	0	0.0%	4.5%	-	1.5E-01	2.4E-03	-	X	X	-	X	-	-	-			Not a COPC	
n-Butylbenzene	7.5E+02	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-			Not a COPC	
n-Propylbenzene	1.7E+03	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-			Not a COPC	
sec-Butylbenzene	1.5E+03	1.0E-03	15	12	0	3	0	20.0%	0.0%	1.8E-03	7.5E-02	1.2E-03	-	-	-	X	-	X	-	-			Not a COPC	
Styrene	3.3E+03	1.0E-03	22	22	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-			Not a COPC	
tert-Butylbenzene	1.6E+03	1.0E-03	15	13	0	2	0	13.3%	0.0%	3.5E-03	7.5E-02	1.2E-03	-	-	-	X	-	X	-	-			Not a COPC	
Tetrachloroethylene (PCE)	1.6E-03	1.0E-03	154	138	11	16	6	10.4%	11.0%	5.2E-03	1.0E-01	8.2E-04	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and median RL below direct contact, bank erosion, and TEE values.		Not a COPC	
Toluene	4.4E-02	1.0E-03	241	192	57	49	12	20.3%	28.6%	2.5E+01	1.6E-01	5.0E-03	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and median RL below direct contact, bank erosion, and TEE values.		Not a COPC	
Total xylenes	5.5E-02	2.0E-03	230	193	37	37	22	16.1%	25.7%	1.9E+02	1.2E-01	2.5E-03	-	-	-	-	-	-	X	-	Not a COPC in groundwater. Max detect and max RL below direct contact and bank erosion values.		Not a COPC	
trans-1,2-Dichloroethylene	3.2E-01	1.0E-03	128	119	0	9	0	7.0%	0.0%	9.3E-03	1.0E-01	4.8E-04	-	-	-	X	-	X	-	-			Not a COPC	
trans-1,3-Dichloropropene	3.8E-04	1.0E-03	22	22	22	0	0	0.0%	100.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-			Not a COPC	
trans-1,4-Dichloro-2-butene		5.0E-03	15	15	0	0	0	0.0%	0.0%	-	3.8E-01	5.9E-03	-	-	X	-	-	-	-	-			Not a COPC	
Trichloroethylene (TCE)	2.7E-04	1.0E-03	154	108	77	46	46	29.9%	79.9%	8.3E-02	1.0E-01	3.2E-04	-	-	-	-	-	-	X	-	Not a sitewide GW COPC. TCE has been detected at two wells located along the northern property line (MW-70 and MW-49). Groundwater impacts appear to be associated with upgradient source. MW-70 is screened from 45-60 feet bgs. Soil samples taken from 35, 45, and 55 feet bgs sample from the boring for MW-70 did not contain detectable TCE. Shallow samples from the boring did contain TCE; groundwater samples taken from adjacent well MW-69 (screened from 5-20 feet bgs) did not contain detectable TCE. Soil PCULs based on groundwater do not appear to be appropriate. Maximum detection and median RL are below the alternative values (bank erosion and direct contact).		Not a COPC	
Trichlorofluoromethane (CFC-11)	1.7E+04	1.0E-03	22	22	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-			Not a COPC	

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]									Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5% Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Trichlorotrifluoroethane (CFC-113)	8.1E+05	-	19	19	0	0	0	0.0%	0.0%	-	1.5E-01	2.4E-03	-	X	-	X	X	X	-	-		Not a COPC	
Vinyl acetate	8.0E+04	5.0E-03	22	22	0	0	0	0.0%	0.0%	-	3.8E-01	5.9E-03	-	X	X	X	X	X	-	-		Not a COPC	
Vinyl chloride	5.6E-05	1.0E-03	154	150	150	4	4	2.6%	100.0%	1.0E-02	1.0E-01	9.1E-04	-	-	-	-	-	-	X	-	Vinyl chloride has been detected in four soil samples taken from the Site; all four were samples from below the water table. Shallower samples were taken from three of the four borings; vinyl chloride was not detected in the shallower samples. The vinyl chloride soil detections appear to be associated with groundwater impacts. Median RL is below the PQL.	Not a COPC	
Per- and Polyfluoroalkyl Substances																							
GenX (HFPO-DA)	2.4E-01		18	18	0	0	0	0.0%	0.0%	-	-	-	-	-	-	X	X	X	-	-		Not a COPC	
Perfluorobutanesulfonic acid (PFBS)	2.0E+01	-	18	17	0	1	0	5.6%	0.0%	4.5E-04	-	-	-	-	-	X	-	-	-	-		Not a COPC	
Perfluorohexanesulfonic acid (PFHxS)	3.5E-02	-	18	8	0	10	0	55.6%	0.0%	5.5E-03	-	-	-	-	-	X	-	-	-	-		Not a COPC	
Perfluorohexanoic acid (PFHxA)	4.0E+01	-	18	8	0	10	0	55.6%	0.0%	3.5E-03	-	-	-	-	-	X	-	-	-	-		Not a COPC	
Perfluorononanoic acid (PFNA)	5.5E-03	-	18	15	0	3	0	16.7%	0.0%	1.1E-04	-	-	-	-	-	X	-	-	-	-		Not a COPC	
Perfluorooctanesulfonic acid (PFOS)	7.2E-04	-	18	6	0	12	6	66.7%	33.3%	3.7E-01	-	-	-	-	-	-	-	-	-	X	Retain within the PFAS Release Area.	COPC in Limited Areas	Perfluorooctanesulfonic acid (PFOS)
Perfluorooctanoic acid (PFOA)	3.4E-05	-	18	10	10	8	8	44.4%	100.0%	2.3E-03	-	-	-	-	-	-	-	-	-	X	Retain within the PFAS Release Area.	COPC in Limited Areas	Perfluorooctanoic acid (PFOA)

NOTES:

1 Definitions of Statistics:

Sample Count = number of samples analyzed for the compound.

ND Count = number of analyzed samples in which the compound was not detected above laboratory RL.

ND > PCUL = number of analyzed samples in which the compound was not detected and reporting level for the analysis exceeded the PCUL.

Detect Count = number of analyzed samples in which the compound was detected.

Detect > PCUL = number of analyzed samples in which the compound was detected at a concentration exceeding the PCUL.

Table 39: Evaluation Summary Table - COPCs in Soil

Statistics[1]													Evaluation[2]															Summary	
Analyte	PCUL[a]	PQL[b]	Sample Count	ND Count	ND > PCUL	Detect Count	Detect > PCUL	Frequency of Detection	Frequency of Exceedance (Detect and ND)	Maximum Detection	Maximum RL	Median RL	No PCUL Established	Never Detected Maximum RL < 10X PCUL	Never Detected Median RL < 2X PQL	Maximum Detect/RL < PCUL	Frequency of Detection <= 5%	Maximum RL <= 10X PCUL	Maximum Detect <=2xPCUL	Maximum Detect/RL <= 2X PCUL	Frequency of Exceedance <= 10%	Other (See Comment)	Retained in Portion of Site (see comment)	Comment				Summary	Retained Compound

Frequency of Detection = percentage of analyzed samples in which the compound was detected.

Frequency of Exceedance = percentage of analyzed samples in which the compound was either detected at a concentration exceeding the PCUL or was not detected with an RL exceeding the PCUL.

Maximum Detection = maximum detected concentration.

Maximum RL = maximum reporting limit for non-detect samples.

Median RL = median reporting limit achieved for non-detect samples.

2 Definitions of Evaluation Criteria (an X indicates the criteria is met for a compound):

No PCUL Established = no screening level has been established for the compound.

Never Detected = the compound was never detected (Detect Count = 0).

Maximum RL < 10X PCUL = maximum RL for non-detect samples is less than ten times the PCUL.

Median RL < 2X PQL = the median RL for non-detect samples is less than twice the PQL.

Maximum Detect/RL < PCUL = the maximum detected concentration and maximum reporting limit for non-detect samples were below the PCUL.

Frequency of Detection <= 5% = the frequency of detection is not more than 5%.

Maximum RL <= 10X PCUL = maximum reporting limit for non-detect samples was no more than 10 times the PCUL.

Maximum Detect <= 2X PCUL = the maximum detected concentration was not more than twice the PCUL.

Maximum Detect/RL <= 2X PCUL = the maximum detected concentration and maximum RL for non-detect samples are not more than twice the PCUL.

Frequency of Exceedance <= 10% = the frequency of exceedance is not more than 10%.

Other = chemical-specific basis (explained in comments).

Retained in Portion of Site = review of the data suggests that the compound is of potential concern in only a portion of the Site (explained in comments).

a Screened against the most stringent soil PCUL for non-potable groundwater. PCULs established by Ecology (March, 2024).

b PQL generated by surveying three laboratories. Value represents minimum PQL achievable for the compound.

This table provides the COPC evaluation for soil.

Concentrations are in milligrams per kilogram.

Screening was completed using the most stringent PCUL values from 2024. In several instances, alternative values were evaluated and deemed to be more appropriate for a compound (explained in comments column). For example, if a compound was eliminated as a COPC in groundwater, then PCULs protective of leaching from soil to groundwater were determined to be inappropriate for the Site and alternative values (such as those established for direct contact, protection of sediment via bank erosion, and TEE) were considered. In some cases, this resulted in compounds being removed from the COPC list.

COPC = chemical of potential concern; cPAH = carcinogenic polycyclic aromatic hydrocarbon; cPAH TEQ - cPAH toxic equivalency; HPAH = heavy polycyclic aromatic hydrocarbon; JFOS = Jorgensen Forge Outfall Site; LNAPL = light nonaqueous phase liquid; LPAH = light polycyclic aromatic hydrocarbon; ND = non-detect; PAH = polycyclic aromatic hydrocarbon; PCB = polychlorinated biphenyl; PCUL = Preliminary Cleanup Level; PFAS = per- and polyfluoroalkyl substances; PQL = practical quantitation limit; RL = reporting limit; TEE = terrestrial ecological evaluation; TEQ = toxic equivalency; TPH = total petroleum hydrocarbons; - = not applicable or not available

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Area 1 - Hollowbore Area						
Hollowbore 59/60 Lathes Cutting Oil Holding Tank and Vault (See Figure A-2)	Steel 11,000-gallon tank located within a subsurface concrete vault outside to the north of the main building. Observable portions of the tank and vault appeared to be in good condition. The tank provided the operating oil for the Hollowbore 59/60 Lathes. Used oil is filtered and returned to the UST. Approximately 3 inches of oil was visible on the floor of the vault in September 2018.	No evidence that the tank or vault were a source of contamination.	Several borings and wells were completed outside to the north. Undifferentiated TPH (TPH-U) measured in soil samples at concentrations as high 77,000 mg/kg (B-3, 7.5 ft bgs) in the immediate vicinity of the holding tank/vault. Further to the east, TPH measured at up to 120,000 mg/kg (OB2 at 6 to 6.5 ft bgs). TPH not present in shallow soil (<5 ft bgs).	Petroleum hydrocarbon contamination is prevalent in the vicinity of the UST/vault; however, the source is not apparent. Vertical delineation of petroleum-impacted soil has not been achieved (contamination detected within deepest sample collected at several locations).	(1) Complete LNAPL delineation using LIF technology. Target identifying the vertical and lateral extent of contamination (LNAPL and residual soil contamination) by using step-in/step-out approach to locate edge of the LNAPL plume to the north, northwest, northeast, southwest, east, and southeast. Install monitoring wells (MW-55 through MW-58) outside of plume extents. Locate MW-22; if not found, replace with MW-22R.	(1a) Data gap closed. LIF study completed to delineate LNAPL and residual soil contamination. Five monitoring wells (MW-55 through MW-59) installed outside of the plume extents. MW-22R installed. Soil samples taken from LIF calibration boring A1-02A. Highest TPH concentrations detected within 12.8 feet bgs sample. Base sample (25 feet bgs) contained TPH at concentrations below screening levels.
Hollowbore 59/60 Lathes Vault and Intermediate Cutting Oil Tank (See Figure A-3)	Concrete vault divided into east and west compartments by a concrete wall. Pooled oil was observed on the floor within both compartments. No sump pumps were observed in the vault. West compartment contained pipes, motors, pumps, and oil filter for Hollowbore 59 Lathe. West compartment also contained a 240-gallon steel intermediate cutting oil tank (UST-2). Cracks observed in the northwest and southwest corners of the west compartment (at about 2 ft bfs) with dried oil that appeared to have seeped into the vault. East compartment contained pipes, motors, and pumps for Hollowbore 60 Lathe. A large crack was observed in the floor that was adjacent to the joint between the south wall and the vault floor and was present in both vaults. This crack was not observed when the vault was operational since it was covered in oil. The crack had about a 1/8-inch separation; however, the bare ground was not visible since the crack was filled with crumbled concrete. Capped pipes observed to be entering at the east wall of the vault through a cut-out portion near the top of the wall; oil was observed on the pipes and the soil was observed to be oil-soaked. Dried oil that appeared to have seeped into the vault was visible.	Oil observed to have seeped into the vault from surrounding soil near the top of the vault through cut-out and large cracks. No evidence of seeping within other parts of vault, suggesting that it acts to contain spills.	(A) Borings IB1, IB2, IB3, and FB-2 and wells MW-16, MW-17, and MW-18 have been completed within the Hollowbore Area. Sampling indicates TPH-O at up to 150,000 mg/kg (FB-2, 3 to 5 ft bfs). Unlike outside the main building, contamination is prevalent in both shallow and deep soil samples suggesting that shallow release points were present. There does not seem to be much evidence that the below ground vaults and tanks were the source of the contamination. Based on the visual evidence and the presence of LNAPL, it is likely that leaks from subsurface piping resulted in the soil and groundwater contamination.	(B) Vertical delineation of petroleum-impacted soil has not been achieved (contamination detected within deepest sample collected at several locations). Additional horizontal delineation needed.	See (1).	See (1a) above.
Hollowbore 58 Lathe Vault, Oil-Return Trench, Clean Cutting Oil Tank, and Dirty Cutting Oil Tank (See Figure A-3)	Oil return trench was a concrete vault clad in metal. Oil was observed seeping into the trench from behind the metal cladding (between the concrete and metal). The vault contained a 5,500-gallon steel open top clean cutting oil tank that was used to hold clean oil for the lathe. The clean oil was pumped to the lathe within a 4-inch line that ran within the oil-return trench. Used oil from the lathe was held in a 5,000-gallon steel open top dirty cutting oil tank before it was pumped through filters to the clean oil tank.	Oil observed to be seeping into the oil-return trench from between the concrete vault and metal cladding. There was no evidence that the oil was seeping from the surrounding soil.	See (A).	See (B).	See (1).	See (1a) above.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Subsurface Piping in Hollowbore Area (See Figure A-2)	Subsurface piping in the Hollowbore Area used to convey cutting oil. Lines included two 8-inch supply lines and 20-inch gravity return line connecting the holding tank (UST-1) to the Hollowbore 59/60 Lathes Vault; 2.5-inch supply and bypass lines that connected the Hollowbore 59, 60, and 61 (historical) lathes to the Hollowbore 59/60 Lathes Vault; 4-inch supply line, which historically connected the Hollowbore 58 lathes to the Hollowbore 58 Lathe Vault (re-routed to new 4-inch line within the oil-return trench).	Documented release of 1,200 gallons in 1991 from the Hollowbore 58 supply line that ran out to the west from the Hollowbore 58 Lathe Vault (SEACOR, 1993b).	See (A).	See (B).	See (1).	See (1a) above.
Frenchman 63 Lathe Vault (See Figure A-2)	The vault contained lathe motors and gear boxes. The machine only reportedly used gear lubricants (no other oils). The vault had concrete walls and floors.	No evidence that the vault was a source of contamination.	See (A).	See (B).	See (1).	See (1a) above.
Tacchi #2 Vault (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls.	No evidence that the vault was a source of contamination.	See (A).	See (B).	See (1).	See (1a) above.
Carlton (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls. The vault had an apparent oil-return trench along the north boundary of the vault. The trench was about 1.5 ft bfs. The trench directed oil to a steel cylindrical vault that was visible to 6 ft bfs. The metal vault's floor was covered with water and was therefore not observed. Water was apparently from rain and/or nearby maintenance. A 3-ft-long seam (cold joint) was observed in the southwest corner of the vault where the sidewalls met the floor. The seam did not appear to be a seep.	No evidence that the vault was a source of contamination.	See (A).	See (B).	See (1).	See (1a) above.
Ingersoll (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls.	No evidence that the vault was a source of contamination.	See (A).	See (B).	See (1).	See (1a) above.
Tacchi Vault and Tank (See Figures A-2 and A-3)	Steel 2,500-gallon cutting oil tank for the Tacchi lathe located within a vault in Bay 4 of the Machine Shop Area. The vault was observed when the tank was removed.	Installed in 2008. No evidence that the vault or tank were a source of contamination.	(C) MW-30 and FB-1 are located between the Tacchi and the MAE. Elevated petroleum hydrocarbons were not detected in soil collected at MW-30 or FB-1.	None.	Boring SB-2020-027 will be completed in Area 5 to the southwest of this feature.	Data gap closed. No significant release identified. Boring SB-2021-027 was completed. Soil samples contained TPH-D and TPH-O at low (below screening levels) concentrations, cPAH TEQ and naphthalene at low levels, and a few metals (arsenic, copper, mercury) at concentrations slightly above screening levels.
MAE (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls.	No evidence that the vault was a source of contamination.	See (C).	None.	None.	
Former Cutting Oil Supply AST and Supply Line (See Figure A-3)	Former 4,000-gallon supply AST for the Hollowbore Lathes that was located outside to the northwest of the main building. The tank was reportedly situated in secondary containment consisting of concrete floor and walls and was covered with a metal roof. A single wall 2-1/2-inch supply line ran southeast from the AST to the northwest corner of the building and then east along the northern wall of the building; the line then rose above the building plinth, entered the building, returned to below the slab, and ran into the Hollowbore 59/60 vault.	Former features that could not be viewed. Based on descriptions (SEACOR, 1993b), there is no evidence that the AST was a source of contamination at the Site; however, the underground supply line to the building could have been a source of contamination.	Hand-auger borings HA-1A and HA-1B and well MW-21 were completed in the vicinity of the supply line near the northwest corner of the main building. Petroleum contamination was evident beginning at approximately 5 ft in boring HA-1A. Soil samples collected from boring for well MW-21 contained TPH-O, with the highest concentration (700 mg/kg) collected from the shallowest (1.5 to 2 ft) sample.	No soil samples have been collected at the location of the former AST or along the expected location of the line near the AST.	Proposed well MW-55 and direct-push borings completed to place the well outside of the plume (see [1] above) can serve to evaluate the former AST and cutting oil supply line.	Data gap closed. No significant release identified. LIF borings A1-03 and A1-04 and MW-55 completed. A low LIF response was observed at A1-03 at approximately 5 feet bgs and from between 7 and 8 feet bgs with a more significant response between depths of 12 and 14 feet bgs. The shallow response may be associated with the former AST line; the deep response is consistent with other locations in the area. Samples taken from MW-55, adjacent to the former AST, did not identify a significant release; samples contained TPH-D and TPH-O at low (below screening levels) concentrations, cPAH TEQ and naphthalene at low levels, and a few metals.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Metal Storage Shed (See Figure 2A)	Paved and covered (with wooden roof) area in which bins were used to collect steel and aluminum metal chips that resulted from machining operations. The bins were used to transport the metal chips offsite to recycling centers.	No evidence that this area was a source of contamination.	None.	None.	If feasible, well MW-56 will be completed near this area and may provide confirmation that this feature was not a source of contamination.	Data gap closed. No significant release identified. MW-56 was installed at this location. Soil samples contained TPH-D and TPH-O at low (below screening levels) concentrations, cPAH TEQ and naphthalene at low levels, and a few metals.
Office Building Heating Oil UST (See Figure A-3)	UST located west of the office building. Could not determine if the tank was within a vault or soil. Only soil (with visible sheen) was observed.	No indication that the UST is a source of contamination.	Borings DM-B-2 and DM-B-3 were completed in vicinity of the UST. No indication of contamination during drilling and samples (11 ft) did not contain detectable petroleum hydrocarbons.	None.	None. Proposed well MW-59 and direct-push borings completed to place the well outside of the plume (see [1] above) can serve to evaluate the UST.	Data gap closed. No significant release identified. Well MW-59 was not completed at this location. It was moved in response to findings from the LIF study. Instead, boring SB-2021-046 was completed to evaluate the UST. Low detections of TPH-O could be associated with the UST, but detections were below screening levels.
Large Freight Scale (See Figure A-2)	Vault was not visible when equipment was installed. Vault was observed when equipment was removed. A steel cylindrical vault was present at the floor of the Large Shipping Scale Vault. The cylinder was apparently a sump. The metal cylinder extended 5 ft deep for a total of 9 ft bfs. The cylinder was approximately 1-ft-diameter. The bottom of the cylinder appeared to be resin or concrete.	No evidence that the vault was a source of contamination.	None.	None.	None.	
Small Freight Scale (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls.	No evidence that the vault was a source of contamination.	None.	None.	None.	
Shipping Chemical Storage Area (See Figure 2A)	Flammable lockers were observed along the northern and southern walls of the Shipping Area. The lockers contained small containers of various chemicals reportedly used to clean and/or test products.	Most recent operations used chemicals in small quantities. The area is within the building with concrete floors. Unknown if historical operations used larger volumes.	No borings completed in the Shipping Area. MW-9 is located to the east and outside of the main building. Boring IB3 was completed in the building to the west of the Shipping Area but was not sampled for VOCs.	No sampling has been completed in this area.	Proposed well MW-58 and direct-push borings completed to place the well outside of the plume (see [1] above) can serve to evaluate the Shipping Area. Samples should be collected for HVOCs analysis.	Data gap closed. Impact identified. MW-58 was installed within the Shipping Area. Soil release not identified; however, elevated benzene, ethylbenzene, and naphthalene contamination was identified in groundwater, indicating a possible release in the vicinity. No HVOCs were detected.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Area 2 - Oil-Water Separator and Decommissioned Diesel Storage Area						
660-Ton Press Vault and Hydraulic Oil Tank (See Figures A-2 and A-3)	Vault constructed with concrete floor and walls located within the Forge Shop Area. The vault was used for maintenance access only. The floor was coated with oil and debris in September 2018. The vault walls and floor were observed to be in good condition. No groundwater infiltration was observed. No sump pump observed within the vault. The steel hydraulic oil tank, hydraulic oil lines, pump, and equipment were in an aboveground pump room within concrete containment. Floor and walls of the pump room were observed to be in good condition. Hydraulic oil was observed coating the floors of the pump room. AFFF fire suppression system observed within the separate aboveground pump room structure.	Though pooling of hydraulic oil was observed, the vault and pump room appeared to be in good condition. The AFFF fire suppression system reportedly did not leak and was not activated (inadvertently or in response to a fire). There was no evidence that the vault and pump room were a source of contamination.	MW-36 installed approximately 25 ft to the south of the vault and pump room. No other investigative points completed near this feature. No soil sampling data (or boring log) available for MW-36. Recent groundwater sample (February 2018) collected from well MW-36 contained TPH-D above screening level.	(D) Groundwater at the Site has not been tested for AFFF-related compounds (PFAS). (E) LNAPL plume not sufficiently delineated, particularly to the north and west. TPH-D measured in groundwater samples collected from wells MW-40 and MW-41 (screen 30 to 40 ft bgs) above screening level in February 2018.	(2) Complete limited groundwater sampling (one sampling event) for PFAS to evaluate the presence of PFAS within groundwater at the Site. (3) Complete LNAPL delineation using direct-push drilling methods. Target identifying the vertical and lateral extent of contamination (LNAPL and residual soil contamination) by using step-in/step-out approach to locate edge of plume to the north, east, west, and south. Install monitoring wells (MW-60, MW-61, MW-73) outside of plume extents. Potentially, replace MW-13 with MW-13R inside of plume extents. See (4) below.	(2a) Data gap closed. PFAS sampling of soil and groundwater was completed. PFAS was confirmed to be present in soil and groundwater within a limited area of the Site. (3a) Data gap closed. LIF study completed to delineate LNAPL and residual soil contamination. Monitoring wells MW-60, MW-61, and MW-72 installed outside of the plume extents. MW-13R installed within plume extents. MW-73 was intended to be outside of plume extents, but was determined to be within LNAPL after sampling. Soil samples taken from LIF calibration borings A2-07A and A2-16A. LIF study identified two distinct products with two source areas. Samples taken from 18 feet bgs and lower did not contain TPH-D or TPH-O above screening levels.
1,250-Ton Press Vault and Hydraulic Oil Tank (See Figures A-2 and A-3)	Vault constructed with concrete floor and walls located within the Forge Shop Area. The vault was used for maintenance access only. The vault walls were observed to be in good condition. The floor was coated with oil and debris in September 2018. After equipment was removed, the vault walls and floor were observed to be in good condition with minor cracks. No groundwater infiltration was observed. The vault contained a dual-intake sump pump reportedly piped to the oil-water separator located in the Decommissioned Oil Storage Area. The steel 1,000-gallon hydraulic oil tank, hydraulic oil lines, pump, and equipment were in an aboveground pump room within concrete containment. AFFF fire suppression system observed within the separate aboveground pump room structure. Floor and walls of the pump room were observed to be in good condition. Hydraulic oil was observed coating the floors of the pump room.	Though pooling of hydraulic oil was observed, the vault appeared to be in good condition. The AFFF fire suppression system reportedly did not leak and was not activated (inadvertently or in response to a fire). There was no evidence that the vault and pump room were a source of contamination.	The feature is located within the Area 2 LNAPL plume footprint. Well MW-35 installed approximately 20 ft to the west of the vault. No soil sampling data (or boring log) available for MW-35. LNAPL (8.6 ft thick) observed in MW-35 in February 2018.	See (D). See (E).	See (2) and (3) above and (4) below.	See (2a) and (3a) above.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
5,000-Ton Press Vault and Hydraulic Oil Tank (See Figures A-2 and A-3)	Dual level vault extending to 35 ft bfs constructed with concrete floor, walls, and ceiling located within the Forge Shop Area. The bottom level was divided into a north and south compartment. The vault was used for maintenance access and contained the 3,000-gallon steel hydraulic oil tank (bottom level, north compartment) and equipment. Both bottom floor compartments contained a sump pump reportedly piped to the oil-water separator located in the Decommissioned Oil Storage Area. When the vault was in active use, oil and metal debris were observed on the vault floors. After the vault was inactivated, the oil and debris were cleared and the vault walls and floors were observed stained throughout. No seeps or large cracks were observed in the vault walls and floors.	Though pooling of hydraulic oil was observed, the vault appeared to be in good condition. No obvious indication of groundwater infiltration into vault, though vault extends below water table, suggesting vault acts as containment for spills.	Wells MW-40 and MW-41 completed to the west of the vault. Soil samples collected from MW-41 to depths of up to 30 ft bgs did not contain petroleum hydrocarbons or indication of contamination. No silt layer observed in boring log. TPH-D measured in MW-40 and MW-41 (screen 30 to 40 ft bgs) above screening level in February 2018.	The presence of TPH-D in wells MW-40 and MW-41 should be further investigated.	(4) Complete shallow and deep groundwater monitoring wells (MW-63 and MW-64) (in Area 5) downgradient of wells MW-40 and MW-41. Proposed well MW-60 and direct-push borings completed to place the well outside of the plume (see [3] above) can serve to evaluate the vault.	(4a) Data gap closed. Monitoring wells MW-63 and MW-64 installed downgradient of MW-40 and MW-41. Samples taken from MW-63 have not contained detectable petroleum hydrocarbons. Samples taken from MW-64 contained typically low concentrations of TPH-D; one sample contained TPH-D at 977 ug/L, above the screening level. Findings at MW-60 were consistent with other locations in the area. There was no indication of significant release; samples contained TPH-D and TPH-O at low (below screening levels) concentrations, cPAH TEQ and naphthalene at low levels, and a few metals.
L and F Press Vault and Hydraulic Oil Tank (See Figures A-2 and A-3)	Vault constructed with concrete floor and walls located in the Forge Shop Area. The vault contained trays to capture debris and oil. The trays were able to be removed to allow for maintenance access. Once the equipment was removed, the vault floors and walls were observed to be in good condition. The vault walls were observed to be in good condition; the floor could not be viewed due to the trays. Two 1-inch pipes penetrated the north wall of the vault. There was an approximately 1/8-inch gap between the concrete wall and metal pipes. The concrete walls throughout the vault were stained with oil. No fresh oil or accumulation of dried oil were observed below the pipe penetrations. No groundwater infiltration was observed. The 700-gallon steel hydraulic oil tank was situated on a metal grate on a concrete platform approximately 1 ft above floor level adjacent to the vault. The concrete floor below the grate was observed to be in good condition with minor cracking.	The vault appeared to be in good condition. No evidence that the vault or tank were a source of contamination.	No borings completed in the immediate vicinity of the features.	None.	None. Proposed well MW-60 and direct-push borings completed to place the well outside of the plume (see [3] above) can serve to evaluate the features.	Data gap closed. MW-61 was placed near this feature. Soil samples taken from the boring for MW-61 were generally consistent with the area; the samples contained TPH-D and TPH-O at low (below screening levels) concentrations, cPAH TEQ and naphthalene at low levels. The shallowest sample contained low concentrations of PCBs and a few metals at elevate concentrations (arsenic, lead, nickel, and chromium).
Ring Expander Vault and Hydraulic Oil Tank (See Figures A-2 and A-3)	Vault constructed with concrete floor and walls located at the southern end of the Forge Shop Area. The vault was used for maintenance access and contained the 300-gallon steel hydraulic oil tank, hydraulic oil lines, pump, and other equipment. The vault floor and walls were observed to be in good condition. Hydraulic oil was pooled on the floor. Groundwater infiltration was observed at 10 ft bfs. The water was pumped out into aboveground mobile totes.	No evidence that the vault or tank were a source of contamination. Infiltrated groundwater is pumped to aboveground mobile totes.	TPH-O has not been detected within groundwater samples collected from well MW-37, located outside and southwest of the feature.	Monitoring well MW-37 has not been sampled for TPH-O since 2009.	(5) Sample groundwater samples from well MW-37 for petroleum hydrocarbons. Install well MW-74 downgradient of this feature to analyze for petroleum hydrocarbons.	(5a) Data gap closed. Samples taken from MW-37 did not contain any compounds at concentrations above screening levels except for occasionally elevated copper, nickel, and manganese. Soil samples taken from the boring for MW-74 contained low levels of TPH-D and TPH-O (below screening levels). Groundwater samples contained TPH-D and TPH-O, with one of four samples above the screening level.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Ring Mill Vault, Coolant Storage Vault, and Coolant Tanks A and B (See Figures A-2 and A-3)	Vault constructed with concrete floor and walls located at the southern end of the Forge Shop Area. The vault was used for maintenance access and contained pipes and pumps for water coolant and hydraulics (hydraulics plant not within vault). The vault floor and walls were observed to be in good condition. Approximately 2 inches of water coolant was observed within the vault. Sump pump in north end of the vault pumps used coolant to the coolant storage tanks. Sump pump in south end of the vault used to pump oil waste to aboveground mobile totes. The Ring Mill Vault had two large cracks with 1/2-inch separation located about 1.5 ft bfs. The cracks and rest of the vault walls and floors were stained. Two open top 500-gallon steel coolant (water with additives) storage tanks located within vault constructed with concrete floor and walls. Coolant Storage Vaults extended to 14 ft bfs.	Appeared to be in good condition. No evidence that the vault and tank were a source of contamination.	TPH-O has not been detected within groundwater samples collected from well MW-37, located outside and southwest of the feature.	Monitoring well MW-37 has not been sampled for TPH-O since 2009.	See (5) above.	See (5a) above.
Quench Tank 5/6 (Q5/Q6) Vault, Q5, and Q6 (See Figure A-2)	Steel quench tanks situated within a concrete vault located at the east end of the Heat Treat Area. The vault extended to 10 ft bfs; black oil fluid was observed within the vault and covering the vault floor in September 2018. The tanks and vault walls appeared to be in good condition. Groundwater was observed infiltrating the vault. A large crack was observed on the north side of the concrete floor. Each tank had an approximate capacity of 4,100 gallons. Q5 (UST-11) contained water. Q6 (UST-12) contained Martemp 2525 (formerly contained Houghton Quench K).	No evidence that the vault and tanks were a source of contamination.	No sampling has been completed in the vicinity of this feature.	No sampling has been completed in this area.	Proposed monitoring well MW-61 and direct-push borings completed to place the well outside of the plume (see [3] above) can serve to evaluate the features.	Data gap closed. No significant impact identified. MW-61 was placed near this feature. Soil samples taken from the boring for MW-61 were generally consistent with the area; the samples contained TPH-D and TPH-O at low (below screening levels) concentrations, cPAH TEQ and naphthalene at low levels. The shallowest sample contained low concentrations of PCBs and a few metals at elevated concentrations (arsenic, lead, nickel, and chromium).
Quench Tank 7 (Q7) Vault and Q7 (See Figure A-2)	Steel quench tank situated within a concrete vault located at the east end of the Heat Treat Area. The vault and tank extended at least 5 ft bfs; water was observed in the vault. The vault and tank appeared to be in good condition. Q7 (UST-13) had an approximate capacity of 20,000 gallons. Q7 contained water (formerly contained polymer fluid).	Appeared to be in good condition. No evidence that the vault and tank were a source of contamination.	No sampling has been completed in the vicinity of this feature.	No sampling has been completed in this area.	Proposed monitoring well MW-61 and direct-push borings completed to place the well outside of the plume (see [3] above) can serve to evaluate the features.	Data gap closed. MW-61 was placed near this feature. Soil samples taken from the boring for MW-61 were generally consistent with the area; the samples contained TPH-D and TPH-O at low (below screening levels) concentrations, cPAH TEQ and naphthalene at low levels. The shallowest sample contained low concentrations of PCBs and a few metals at elevated concentrations (arsenic, lead, nickel, and chromium).
Quench Tank 8 (Q8) Vault and Q8 (See Figure A-2)	Steel vertical quench tank located within a concrete vault located within the AHTB. The floor and walls of the vault could not be viewed due to the limited clearance between the tank and vault and because waster filled several inches of the cavity between the tank and vault. Q8 had an approximate capacity of 25,000 gallons. Q8 (UST-14) appeared to be in good condition and was empty in September 2018 (formerly contained water).	Appeared to be in good condition. No evidence that the vault and tank were a source of contamination.	Numerous sampling points have been completed in the vicinity of the tank/vault to investigate the Area 2 LNAPL plume.	None.	None.	
Outdoor Railroad Scale Vault (See Figure A-2)	Vault constructed with concrete floor and walls located outside to the south of the main building. The vault is used for maintenance access. A sump pump within the vault discharges water to bare ground to the west of the vault. No groundwater was observed in the vault.	No evidence that the vault was a source of contamination.	Well MW-37 located within approximately 50 ft of the feature. No other sampling points in immediate vicinity.	None.	None.	

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Decommissioned Diesel Storage Area Vault and Tanks (also known as the South Bank of 8 Tanks) (See Figure A-2)	Eight 12,000-gallon tanks situated within a partially subsurface concrete vault backfilled with mill scale located to the east of the AHTB. The tanks and vault were used (beginning in at least 1957) to store diesel fuel (formerly contained bunker oil) used as back-up fuel for furnaces within the main building. The tanks passed tightness testing completed in 1991 and 1996. They were reportedly decommissioned by filling with sand in the 1990s; however, in 2019 were found to not have been decommissioned.	No evidence that the tanks were a source of contamination.	(F) Numerous sampling points were completed in the area, including points below the AHTB, to the west of the building, and within the main building. TPH-D detected primarily within the 7 to 10 ft bgs interval with a maximum detection of 77,500 mg/kg within sample taken from 9 ft bgs between the buildings. Silt layer within the area believed to impede downward movement of contamination.	LNAPL plume not sufficiently delineated, particularly to the north and west.	See (3) above. (6) MW-72 will be installed upgradient of this feature to determine baseline conditions in the area. Optional borings SB-2020-030, SB-2020-031, and SB-2020-032 were proposed in the RI Work Plan for installation in the footprint of the vault/tanks and adjacent to the fill ports. Upon discussion with Ecology, it was decided that these optional borings would not be completed.	See (3a) above. Data gap closed. Star Forge removed the tanks in 2023. No further investigation warranted.
Decommissioned Diesel Storage Area Product Lines (See Figure A-2)	Fuel oil supply and return lines from the Decommissioned Diesel Storage Area to the Forge Shop. The lines run below the AHTB, either below or set within the slab. The lines enter the steam tunnel at the west end of the AHTB and are routed into the Forge Shop Area. The lines failed tightness testing in 1996 and are likely the source of diesel LNAPL observed in Area 2 wells.	Investigations suggest that product lines from the diesel storage area tanks to the main building were a source of diesel contamination within the Area 2 LNAPL plume.	See (F).	LNAPL plume not sufficiently delineated, particularly to the north and west.	See (3) and (6) above.	See (3a) and (6a) above.
Steam Tunnel (See Figure A-2)	Concrete tunnel extending from AHTB west to nearly the west wall of the Heat Treat Area. Formerly housed a steam pipe for operating the presses. Currently houses steel pipes that reportedly convey used hydraulic oil to the oil-water separators (Decommissioned Oil Storage Area and west of AHTB). Sump pump within tunnel discharges to oil-water separator west of AHTB. Tunnel observed to be in good condition; water was observed pooled in some areas; oil was observed on tunnel floor near three partially filled canisters of lubricant	No evidence that the steam tunnel was a source of contamination.	None.	None.	None.	
Oil-Water Separator (West of AHTB) (See Figure A-2)	Subsurface oil-water separator located to the west of the northwest corner of the AHTB. The oil-water separator is constructed of two connected concrete chambers. Separated oil is pumped out to aboveground mobile totes. Effluent water discharges to Metro. A portion of the northern concrete sidewall of the northern chamber was observed to be cut out (and bare ground was observed) just above where a pipe connects through the wall (likely the effluent pipe). The separator was reportedly installed in approximately 1968 and initially received hydraulic oil from the 3,000-ton hydraulic press room (no longer present). The separator now receives water from the oil-water separator located in the Oil Recovery Area in Area 4, air conditioning condensate, and coolant from the L and F Straightening Press in Area 2. Capacity exceedances have reportedly occurred on several occasions (based on employee recollections; SEACOR, 1993).	Investigations suggest that historical overflows from the oil-water separator was the source of hydraulic oil LNAPL observed in Area 2 wells.	Borings completed to investigate the TPH-O identified limited soil impacts between approximately 5 and 12 ft bgs adjacent to the oil-water separator.	TPH-O impacts in soil appear to have been well delineated in the vicinity of the oil-water separator. LNAPL plume not sufficiently delineated, particularly to the north and west.	See (3) above.	See (3a) above.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Former Truck Scale (See Figure 2A)	Inactive vault covered with a metal plate. Interior portions of vault not observed.	No evidence that truck scale was a source of contamination.	None.	None.	See (3) above.	See (3a) above.
Gear Box Pits (H-2, F-21, F-23, F-25, and F-35)	Vault was observed when equipment was removed. The vault had concrete floor and walls. The vaults were apparently used to house a gear box for mechanical movements of furnaces.	No evidence that these vaults were a source of contamination.	None.	None.	None.	
Small Ring Mill Vault (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls.	No evidence that these vaults were a source of contamination.	None.	None.	None.	
Area 3 - Former Underground Storage Tank Area						
Former Regulated Gasoline UST and Unregulated USTs (See Figure A-3)	Three single-walled steel USTs located southeast of the guard shack and removed in 1991. Tanks included regulated gasoline UST (8,000-gallon capacity) and two unregulated tanks (2,000- and 1,000-gallon capacities) presumed to have contained gasoline. During removal, the 8,000-gallon UST was observed to be in relatively good condition; the other tanks were in poor condition.	Former features that could not be observed. Gasoline contamination attributed to the USTs was documented and remediated using air injection combined with in situ vapor extraction.	Borings, excavation confirmation samples, and monitoring wells completed to investigation USTs. Monitoring data (MW-3, MW-4, and MW-8) showed decrease in groundwater concentrations of TPH-G and benzene to below laboratory reporting limits. Recent monitoring (August 2017) showed possible rebound of TPH-G to above screening levels. Samples collected in February 2018 were below screening levels.	Unknown if August 2017 detections are indicative of rebound. MTBE has not been analyzed in the vicinity of the USTs.	Continue groundwater monitoring of wells MW-3, MW-4, MW-8, and MW-11. Include MTBE analysis during first sampling event. Complete borings adjacent to the three former USTs (SB-2020-033, SB-2020-034, and SB-2020-035).	Data gap closed. Impact identified. SB-2021-033, SB-2021-034, and SB-2021-035 were completed as intended. Residual soil impact was identified below the northernmost and central UST excavations and TPH-G was identified above the screening level at MW-4 (seasonal), adjacent to the northernmost UST excavation. MTBE was not identified in the groundwater samples taken from this area.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Area 4 - Decommissioned Oil Storage Area						
Decommissioned Oil Storage Area "Vault" and Tanks (also known as the North Bank of 10 Tanks) (See Figures A-2 and A-3)	Ten 15,000-gallon tanks located within the basement of a former office building and backfilled with mill scale (installed in 1974). The tanks are partially belowground and were used to store diesel fuel and heating oil. Tanks 1, 3, and 6 (numbered from north to south) failed tank tightness tests and all tanks (except southernmost tank) were reportedly closed in-place in 1991 by filling with sand; however, in 2019 they were found not to have been decommissioned. The southernmost tank (UST-35, also known as SoundEarth's UST-23) was then used as a settling tank for the adjacent Oil Recovery Area.	Three of the tanks failed tightness testing suggesting possibility of leaks from USTs to the "vault". The integrity of the vault is not known. Possible source of TPH-D and TPH-O contamination.	A boring (SB9) completed between the Decommissioned Oil Storage Area and main building in 1991 contained TPH-O at 14,000 mg/kg (8 to 8.7 ft bgs). Low concentrations of TPH-O detected within samples taken from MW-10 boring (7 to 8.5 ft) and DM-B-10 (8 ft). Additional borings in the area did not identify soil contamination.	Well MW-10 was decommissioned in 2017 due to damage. No point allows for the location of former well MW-10 to be monitored. Dissolved-phase TPH-O and TPH-D at MW-10 location was not delineated to the west-southwest. TPH-O and TPH-D dissolved-phase contamination may have been continuous between Areas 2 and 4, though recent sampling indicates concentrations in MW-14 are below screening levels.	(7) Replace downgradient well MW-10 and complete additional well (MW-62) within the main building to the southwest of MW-10 to monitor in the downgradient direction. Complete two borings in the footprint of the USTs (SB-2020-036 and SB-2020-037).	(7a) The borings were not completed in the footprint of the USTs during the RI because the tanks were to be removed by Star Forge. MW-10R and MW-62 were installed; impact was not apparent at these locations. Star Forge removed the USTs in 2023. Impacts were identified within sidewall and base samples.
Oil Recovery Area (See Figure A-3)	Oil-water separation system for hydraulic oil. Hydraulic oil from equipment in the Forge Shop was pumped to the 15,000-gallon oil-water settling tank (UST-35), where solids settled out of the used oil. The used oil was then sent through a steel centrifuge (AST-5) to further remove contaminants. After the centrifuge, hydraulic oil was sent to the 6,000-gallon steel Clean hydraulic-oil AST (AST-6). The centrifuge and clean hydraulic oil tank were observed to be in good condition and located within a covered and concrete bermed area to the south of the Decommissioned Oil Storage Area. The berm appeared to be in good condition. The separated water was sent to the oil-water separator located to the west of the AHTB (Area 2).	The settling tank passed tightness testing in the early 1990s. Location and integrity of pipes that route hydraulic oil to settling tank from presses in the Forge Shop is unknown.	Groundwater samples taken from MW-10 between 1992 and 2001 did not contain detectable concentrations of TPH-O. Samples collected from the well between 2005 and 2008 contained elevated TPH-O. TPH-D was detected within samples taken from the well between 1995 and 2007 with higher concentrations detected beginning in 2005. Wells MW-11 and MW-14 have contained TPH-D and TPH-O at concentrations above screening levels; concentrations showed decreasing trends. Well MW-8 has infrequently contained TPH-D and TPH-O, at low concentrations.		See (7) above.	See (7a) above.
Waste Oil Tank and Vault (See Figures A-2 and A-3)	2,000-gallon steel waste oil tank situated within a concrete vault adjacent to and west of the Oil Recovery Area. The tank was reported used to contain waste oils collected within mobile totes. The visible portions of the tank appeared to be in good condition. After the tank was removed, the vault walls and floors appeared to be in good condition. No significant cracks or seeps were observed. The floors and walls were stained up to 6 inches from the base of the vault.	No evidence that this vault was a source of contamination.			See (7) above.	See (7a) above.
Oil House (See Figure 2A)	Bermed storage room located east of main building and northwest of the Decommissioned Oil Storage Area. The building contains drums and totes for dispensing products. The walls and floor were observed to be in good condition. Damage noted to the front entrance berm. Floor within the building was observed to be stained.	Though some damage was noted to the berm, there was no visual indication that the Oil House was a source of contamination.	Boring DM-B-9 completed to the southeast of the Oil House did not contain detectable petroleum hydrocarbons.	None.	None.	
H-18 Gear Box Pit (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls.	No evidence that the vault was a source of contamination.	None.	None.	None.	

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Area 5 - Remaining Building Interior Area						
Bueltmann Bar Peeler Oil-Return Vault (See Figure A-2)	Steel open-top trench within a concrete vault located in the Machine Shop Area. The trench conveys used cutting oil to a low point where metal cuttings are removed via a belt and the oil is pumped back to the cutting section of the lathe. The concrete walls and floor appeared to be in good condition.	Relatively new; no evidence that the feature was a source of contamination.	A boring (FB-3) was completed at the approximate location of the vault prior to installation for geotechnical evaluation. FB-3 contained elevated TPH-O (140,000 mg/kg) within sample collected from 3 to 5 ft bfs. Excavation completed to install the bar peeler foundation may have removed the contamination.	Source of contamination at FB-3 (present before bar peeler was installed) is not known.	Complete borings adjacent to the north and south of the bar peeler (SB-2020-001, SB-2020-002, and SB-2020-028).	Data gap closed. Significant impact not identified. Boring SB-2020-001, SB-2021-002, and SB-2020-028 were installed around this feature. Petroleum impacts were not identified. Shallow samples contained low naphthalene exceedances and a few metals at just above screening levels. Low PCB hit at SB-2021-002.
2,500 Ton Press Vault (See Figure A-2)	Vault constructed with concrete floor and walls located at the west end of the Forge Shop Area. The vault is for maintenance access and holds hydraulic piping to operate the press. The vault walls were observed to be in good condition. The floor was coated with oil and debris when the equipment was active. Later, when the equipment was removed, the floor was observed to be crumbled in places. No groundwater infiltration was observed. The 1,500-gallon steel hydraulic oil tank, pump, and equipment were in an aboveground pump room within concrete containment. The floor was coated with oil and could not be viewed. A double-suction sump pump was observed within the pump room. The sump pump reportedly pumped fluids from the vault and pump room and was piped to the oil-water separator located in the Decommissioned Oil Storage Area. AFFF fire suppression system observed within the separate aboveground pump room structure.	Though pooling of hydraulic oil was observed, the vault and pump room appeared to be in good condition. The AFFF fire suppression system reportedly did not leak and was not activated (inadvertently or in response to a fire). No evidence that the vault or pump room were a source of contamination.	No sampling has been completed in the vicinity of these features.	No sampling has been completed in this area. See (D).	Proposed wells MW-63 and MW-64 (see [4] above) will be completed within the vicinity of the vault and pump room. See (2) above.	These borings were completed. Petroleum impact was not identified in soil at concentrations above screening levels. Groundwater samples taken from the deeper well (MW-64) have contained TPH-D. See (2a) above.
West Craven Lathe Vault and Hydraulic Oil Tank (See Figures A-2 and A-3)	Vault constructed with concrete floor and walls located in the Machine Shop Area. The vault was used for maintenance access and contained the 30-gallon steel hydraulic oil tank for the lathe. The walls were observed to be in good condition. The floor was not visible due to pooled hydraulic oil. No groundwater infiltration was observed. A sump pump was observed and reportedly used to pump to aboveground mobile totes.	No evidence that the vault was a source of contamination.	No sampling has been completed in the vicinity of this feature.	No sampling has been completed in this area.	(8) Complete borings SB-2020-003 and SB-2020-038 adjacent to the vaults.	(8a) Data gap closed. No significant impact identified. Low benzene, cPAH, and naphthalene exceedances were noted.
East Craven Lathe Vault and Hydraulic Oil Tank (See Figures A-2 and A-3)	Vault constructed with concrete floor and walls located in the Machine Shop Area. A deeper portion of the vault contained the 100-gallon steel hydraulic oil tank for the lathe. The floor and walls were observed to be in good condition. Hydraulic oil was pooled within the lower portion. No groundwater infiltration was observed. No sump pump was observed.	No evidence that the vault was a source of contamination.	No sampling has been completed in the vicinity of this feature.	No sampling has been completed in this area.	See (8) above.	See (8a) above.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Quench Tanks 1/2/3 (Q1/Q2/Q3) Vault (See Figure A-2)	Three level vault located within the Heat Treat Area constructed with concrete walls and floor. Concrete walls appeared to be in good condition. The floor of the vault was obscured by pooled water, possibly due to groundwater infiltration. A sump pump at the bottom level was reportedly piped to aboveground mobile totes. The vault contained three steel quench tanks (reportedly installed in 1970), a vertical heat-treating furnace, and support equipment. Quench Tank 1 (Q1), Quench Tank 2 (Q2), and Quench Tank 3 (Q3) had approximate capacities of 13,000-gallons, 13,000-gallons, and 17,000-gallons, respectively. Q1 contained Martemp 2525. Q2 contained polymer fluid (formerly contained Houghton Quench K). Q3 was empty (formerly contained water). AFFF fire suppression system observed within the vault.	The quench tanks were evaluated in 2011. Q1 and Q2 were emptied and cleaned and noted to be intact with adequate containment. No discharge or potential pathway from the quench tanks was identified. The AFFF fire suppression system reportedly did not leak and was not activated (inadvertently or in response to a fire).	The quench tanks were investigated in 2011. PCBs were detected within the quench oils used within Q1 and Q2. Quench oil within overflow tank and vault also contained detectable PCBs. A water sample from within the vault did not contain detectable PCBs.	No sampling has been completed in the immediate vicinity. See (D).	(9) Complete boring SB-2020-004 adjacent to the Q1/2/3 vault. See (2) above.	(9a) Data gap closed. Minor release identified. SB-2020-004 was completed. TPH-D, TPH-O, and PCBs were measured within an 8 feet bgs sample but did not extend to greater depths (groundwater encountered at 8 feet bgs). Low PAHs were also identified. See (2a) above.
Portable Quench Tanks 4 and 9 (Q4 and Q9) (See Figure A-3)	Portable aboveground steel quench tanks situated within the Heat Treat Area. Q4 and Q9 were not present in September 2018. Q4 and Q9 had approximate capacities of 13,000 and 18,000 gallons, respectively. Q4 and Q9 were historically discharged to Outfall 3; after 1995, the tanks were plumbed to the oil-water separator that discharged to Metro.	The tanks were evaluated in 2011 and noted to have adequate overflow structures. No discharge or potential pathway from the quench tanks was identified.	The quench tanks were investigated in 2011. Water samples taken from Q4 and Q9 did not contain detectable PCBs.	No sampling has been completed in the immediate vicinity.	See (9) above.	See (9a) above.
West Grinder Pit #1 (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls.	No evidence that these vaults were a source of contamination.	None.	None.	None.	
Billet Grinder Rotator Vault (See Figure A-2)	Vault constructed with concrete floor and walls located in the Forge Shop Area. The vault contained hydraulic arms used to rotate billets for grinding. The hydraulic systems located aboveground on the Billet Grinder Machine. A 1-ft-diameter stain was visible on the concrete floor that was observed after the equipment was removed. No groundwater infiltration was observed.	No evidence that the vault was a source of contamination.	No sampling has been completed in the vicinity of this feature.	None.	None.	
West Grinder Pit #3 (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls.	No evidence that the vault was a source of contamination.	None.	None.	None.	
The Planer (Kysor) (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floors and walls. The walls and floors appeared to be in good condition. Some oil stains and fresh oil were visible on the center sunken section of the vault floor. Some oil had flowed out from under metal beams that were bolted to the vault floor and spanned the sunken area. An oil-absorbent pad was placed in this area. This is considered not to be an oil seep. The purpose of this sunken (about 5 ft bfs) section was not known.	No evidence that the vault was a source of contamination.	None.	None.	None.	
Small Bullard (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls. Some walls were clad in metal.	No evidence that the vault was a source of contamination.	None.	None.	None.	
Large Bullard (See Figure A-2)	Vault was observed when equipment was removed. The vault floor was 1 ft bfs. The vault had concrete floor and walls. The vault had no penetrations through walls or major cracks. A seep of product was observed at the northeast bottom corner of the vault.	The observed seep of product within the vault suggests possible contamination in nearby soil.	None.	Source and extent of oil contamination at the Large Bullard is not known.	Complete boring SB-2020-029 downgradient of the vault and boring SB-2020-045 to the east of the vault.	Data gap closed. No significant impact identified. SB-2020-029 and SB-2020-045 completed in this area. A slight naphthalene exceedance at SB-2020-029.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Large Hypro (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls. The vault floor was 0.5 ft bfs. The floors of the vault were stained by oil. A trench ran along the south boundary of the vault. The trench was approximately 2 inches wide and 6 inches deep. The trench floors were not visible due to being covered by oily water.	No evidence that the vault was a source of contamination.	None.	None.	None.	
Former Underground Quench Tank (See Figure A-2)	Visible vaults walls and floors were metal. Some areas were not visible due to access restrictions. The vault floor was 12 ft bfs. Vault was reportedly discovered in December 2019. Others named this vault; however, the exact purpose appears to be unknown.	No evidence that the vault was a source of contamination.	None.	None.	None.	
Gear Box Pits (F-3, F-5, F-11, F-13, F-15, F-19, H-4, and H-10) (See Figure A-2)	Vault was observed when equipment was removed. The vaults had concrete floors and walls. The vaults were apparently used to house a gear box for mechanical movements of furnaces.	No evidence that these vaults were a source of contamination.	None.	None.	Boring SB-2020-006 will be completed in this area to provide additional coverage in the Forge Shop Area.	Data gap closed. Minor release identified. Soil samples taken from 10 ft bgs at SB-2021-006 contained TPH-G, TPH-D, and several PAHs at concentrations above screening levels. Shallower sample (1.5 ft bgs) contained elevated metals. Boring SB-2021-047, was installed south of this boring outside of the building. No impact was identified.
Billet Storage Scale (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls. The vault had a possible sump that was clad in metal and extended to 9 ft bfs.	No evidence that the vault was a source of contamination.	None.	None.	None.	
Electrical Trench East to West Machine Shop (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls. The vault was apparently used to house electrical cables and had some penetrations for pipe runs.	No evidence that these vaults were a source of contamination.	None.	None.	None.	
Area 6 - Former Bethlehem Steel Facility						
Former Bethlehem Steel Operations (See Figure 2A)	Slab-on-grade foundations from the Bethlehem Steel facility remain. Belowground features, such as stormwater lines may also remain. Operations reportedly included cutting prefabricated steel rods to customers' specifications, and galvanizing. The facility likely used petroleum products, cleaning solvents, paints, and thinners (SEACOR, 1992).	Former feature that could not be viewed.	Sampling has not identified contamination associated with the Bethlehem Steel Facility.	Zinc has not been analyzed in soil in vicinity of former galvanizing shop. Greater spatial distribution of samples needed.	(10) Complete additional borings (SB-2020-005, SB-2020-007, SB-2020-008, SB-2020-009, SB-2020-017, and SB-2020-039) and wells (MW-65, MW-66, and MW-76) to achieve better spatial distribution of sampling data.	Data gap closed. Minor zinc release identified. SB-2020-005, SB-2020-007, SB-2020-008, SB-2021-009, SB-2021-017, SB-2021-039, and SB-2021-065 were completed and monitoring wells MW-65, MW-66, and MW-76 were installed. Existing wells MW-9, MW-25, MW-46, and MW-48 sampled along with new wells. Spatial distribution of data was achieved. Zinc soil impacts measured at MW-66, but not present in groundwater above PCULs.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Former Steam Clean Area and Oil-Water Separator (See Figure 2A)	Steam clean area located to the west of the laboratory. The area consisted of a steel grate overlying a 1 ft bgs concrete reservoir that drained by gravity to oil-water separator. The oil-water separator was constructed of two hydraulically connected tanks separated by a concrete baffle. Effluent water was gravity fed to Metro; oil was manually pumped to aboveground mobile totes.	Former features that could not be viewed. The Former Steam Clean Area was pressure-washed, demolished, and filled with concrete in approximately 2008/2009.	(G) Well MW-46 is located adjacent to the steam clean area and at approximate location of former AST. TPH-D and TPH-O were not detected in soil samples collected during well installation, but have been detected in groundwater samples collected from the well during the recent August 2017 and February 2018 events. TPH-G was not detected in soil samples but has been detected in groundwater samples at concentrations below screening levels.	None.	Proposed borings SB-2020-009 and SB-2020-039 (see [10] above) are located adjacent to this feature.	Data gap closed. Significant release not identified. SB-2021-009 and SB-2021-039 were completed. Low benzene concentrations near water table at both borings. Low naphthalene exceedance at SB-2021-039. Water samples taken from nearby MW-46 contain TPH-D and TPH-O impact with occasional TPH-G (low and below screening levels).
Former Gasoline AST (See Figure 2A)	Former 300-gallon gasoline AST located within a bermed area to the west of the laboratory.	Former feature that could not be viewed.	See (G).	None.	Proposed borings SB-2020-009 and SB-2020-039 (see [10] above) are located adjacent to this feature.	Data gap closed. No significant impact identified. SB-2021-009 and SB-2021-039 were completed. Low benzene concentrations near water table at both borings. Low naphthalene exceedance at SB-2021-039. Water samples taken from nearby MW-46 contain TPH-D and TPH-O impact with occasional TPH-G (low and below screening levels).
Melt Shop Baghouse Dust Storage (See Figure 2A)	Dust from bag house operation was historically directed into sealed containers for offsite disposal. A MSDS posted within the baghouse identified the dust as "Steel Mill Electric Arc Furnace Dust" with a classification of K061. The MSDS listed the constituents within the dust as iron (11 to 25%), lead (1.5 to <5%), and manganese (1.5 to <2.5), with lesser percentages of antimony, arsenic, barium, beryllium, cadmium, carbon, chromium, copper, mercury, and nickel.	No evidence that the feature was a source of contamination.	Numerous samples collected from vicinity of baghouse for metals analysis. Metals not detected in shallow soils above screening levels.	None.	Proposed boring SB-2020-007 (see [10] above) is located adjacent to the bag house.	Data gap closed. No significant impact identified. Impact not observed at boring SB-2021-007.
Covered Metal Chip Storage Area (See Figure 2A)	Covered and paved storage area in which metal chips and turnings are stored in metal bins. Dust and minor staining observed. Runoff appears as if it would be directed to stormwater catch basins that convey stormwater to the stormwater treatment system.	No evidence that the feature was a source of contamination.	Numerous samples collected from vicinity of baghouse for metals analysis. Metals not detected in shallow soils above screening levels.	None.	Proposed borings SB-2020-007 and SB-2020-008 (see [10] above) located to the north and south of the feature.	Data gap closed. No significant impact identified. SB-2021-007 and SB-2021-008 completed. Slight arsenic (both borings) and mercury (at SB-2021-008 only) exceedances noted. Low benzene detections at SB-2021-008.
Former Etch House/Temporary Storage Area (See Figure 2A)	Concrete bermed and covered area located south of the melt bag house within the Former Acid House/Former Etch House. Used for temporary storage of chemicals for future disposal. Minor stains observed. Historically used to clean and etch product samples prior to laboratory testing (Dames & Moore, 1990a).	No evidence that the feature was a source of contamination.	(H) DM-B-15 and DB-B-16 completed in the vicinity of the former etch house and acid pit. Soil samples measured with pH of 4.15 and 4.2. MW-47 completed to the west of the features. Field pH measurements at well MW-47 were within normal (6.71 to 6.93) range. Well MW-47 has not contained petroleum hydrocarbons.	None.	None.	
Former Acid Pit (See Figure 2A)	Concrete vault located south of the melt baghouse that reportedly contained limestone and was used to neutralize acid from etching operations. Visible portions appeared to be in good condition.	No evidence that the feature was a source of contamination.	See (H).	None.	None.	

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Area 7 - Former Metals Storage Area						
Arc Furnace Vault and Hydraulic Oil Tanks (See Figures A-2 and A-3)	Two arc furnace vaults separated by a tipping pit located within the Former Melt Shop. The vaults had concrete walls and floors, with refractory bricks observed on the floor of the tipping pit. The floors drained to a low point for manual pump out to mobile totes or vacuum truck. Hydraulic oil stains were visible on the floor surfaces. Approximately 0.5 ft of pooled water was observed within the vault (pooled in the low areas). Groundwater infiltration was a known occurrence. Two 500-gallon steel hydraulic oil tanks were located within the vault.	No evidence that the vault and tanks were a source of contamination.	Flooring within the Former Melt Shop was a mixture of concrete and dirt. Some cracks were noted in concrete floors. Dust and metal debris was observed throughout. Groundwater infiltration was noted in some vaults. Sampling has not been completed within the Former Melt Shop. Several surface soil samples were taken from the Former Metals Storage Area (outside to the south) and a limited number of borings were completed in near shore areas (outside to the west). Groundwater wells have been completed to the west and southeast. Several metals have been detected above screening levels in soil including arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, silver, and zinc. The metals detected above screening levels are not typically also detected in groundwater samples, with the exception of chromium.	Groundwater monitoring locations needed to the south and southwest of the Former Melt Shop. Deeper soil data needed.	(11) Complete borings SB-2020-010 and SB-2020-040 within Former Melt Shop near the Arc Furnace hydraulic oil tanks. Complete additional borings (SB-2020-011 and SB-2020-012) outside to the south. Install wells (MW-67 and MW-68) outside to the south and southwest.	(11a) Data gap closed. No significant impact identified inside the Former Melt Shop. SB-2021-010 and SB-2021-040 were completed and did not identify impact associated with these features. Impact not identified at MW-67. Impacts were identified at SB-2021-011, SB-2021-068, and MW-68 believed to be associated with unpaved storage area.
AOD Tapping Vault (See Figure A-2)	Tapping pit within the former melt shop. The vault served as location for a ladle to receive molten metal from the AOD furnace. The vault is constructed with concrete walls and floor. No known groundwater infiltration.	No evidence that the vault was a source of contamination.				
Vacuum Degassing Vaults (See Figure A-2)	Vault constructed with concrete floor and walls located within the Former Melt Shop Area. Refractory bricks likely present on the floor over the concrete. Floors were not visible due to thick layer of dust and debris. Concrete walls appeared to be in good condition. Groundwater infiltration was observed. Sump pump within the vault operates approximately every 10 minutes and is reportedly piped to the stormwater treatment system.	No evidence that the vault was a source of contamination.				
Ingot Mold Vaults (See Figure A-2)	Set of vaults within the Former Melt Shop where molten metal was poured into large steel molds. The vault walls and floor are constructed of concrete. No groundwater infiltration has been noted in the vaults. The floors of the north vaults and the walls and floors of the south vaults were in poor condition with many cracks.	No evidence that the vault was a source of contamination.				
Soaking Furnace Vault (See Figure A-2)	Furnace for reducing metal temperature slowly. Concrete vault with insulation over all surfaces. The walls and floors were concrete and appeared to be in poor condition with numerous cracks. Some light stains were observed on the walls and floors. No indication of seeps.	No evidence that the vault was a source of contamination.				
AOD Scale Vault (See Figure A-2)	Vault used for maintenance access. Groundwater was observed in the vault. A pump is used to remove water to an aboveground mobile tote.	No evidence that the vault was a source of contamination.				
Electrical Trench North to South Melt Shop (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls. The vault was apparently used to house electrical cables and had some penetrations for pipe runs.	No evidence that these vaults were a source of contamination.				

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Outdoor Scrap Metal Scale Vault (See Figure A-2)	Vault constructed with concrete floor and walls located outside to the south of the Melt Shop used for maintenance access for the scale. Trash pump is used to remove rainwater that collects in the vault; discharged to ground surface near the scale. The concrete floor and walls were observed to be in good condition.	Observed to be in good condition.	Several surface soil samples were taken from the Former Metals Storage Area. A limited number of borings were completed in near shore areas. Groundwater wells have been completed to the west and southeast. Several metals have been detected above screening levels in soil including arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, silver, and zinc. The metals detected above screening levels are not typically also detected in groundwater samples, with the exception of chromium. Most of the soil data collected within the area is from grab surface samples.	Groundwater monitoring locations needed to the south and southwest. Deeper soil data needed.	See (11) above.	See (11a) above.
Former Scrap Storage Bins (See Figure 2A)	Reinforced concreted bins, reportedly with concrete floors, installed in the 1940s and removed between 2008 and 2009. The 24 bins, located outside to the south of the Former Melt Shop Area, within the Former Metals Storage Area, were used to store scrap and debris.	Former feature that could not be viewed.				
Former Unpaved Metals Storage Areas (Former Melt Steel Slag and Mill Scale AOD/EAF Slag Storage Area) (See Figure 2A)	Formerly unpaved area outside to the south of the Former Melt Shop Area, within the Former Metals Storage Are, was used for storage of slag, mill scale, swarf, and chips. The area is now paved.	Former feature that could not be viewed.				
Cooling Tower Pit South Side Melt Shop (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls. The vault had a catch basin and possible sump installed in the floor.	No evidence that the vault was a source of contamination.				
F-1 Gear Box Pit (See Figure A-2)	Vault was observed when equipment was removed. The vault had concrete floor and walls. The vault was apparently used to house a gear box for mechanical movements of a furnace.	No evidence that the vault was a source of contamination.	None.	None.	None.	
Area 8 - Shoreline and Embayment						
Area 8 overlaps with Area 6. The following features are discussed above within the Area 6 section: Former Acid Pit, Temporary Storage Area, Melt Baghouse Dust Storage Area, and Covered Metal Chip Storage Area						
Melt Shop Baghouse Cooling Tower Vaults (See Figure A-2)	Pump room vaults located below the melt shop baghouse cooling towers. Concrete floors and walls appeared to be in good condition. Sump pumps reportedly direct water to stormwater drains.	No indication that this feature was a source of contamination.	Several borings and wells completed in the vicinity.	None.	None.	
Former Swarf Storage Area (See Figure 2A)	Partially paved/partially gravel area formerly used to store swarf and currently vacant and unused. Historically used for steam cleaning.	Possible source of metals and petroleum hydrocarbons.	One surface sample and several borings have been completed in this area and analyzed for metals. Barium, cadmium, copper (single shallow sample), and zinc were identified above screening levels.	No petroleum hydrocarbons analysis has been performed in this area.	Proposed well MW-53 will be located downgradient of this area. Analyze soil samples collected during well installation for petroleum hydrocarbons and metals.	Data gap closed. Petroleum impact was not identified in this area. Soil samples taken from borings for MW-53, MW-54, and MW-65 contained low TPH-D and TPH-O concentrations, below screening levels.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings
Embayment and Shoreline Fill (See Figure 2A)	Slag believed to be present in southwest corner of Site (behind sheet pile wall) and at base of wharf (within embayment). Fill within the embayment area was dredged from the Lower Duwamish Waterway. Additional fill observed along shoreline and west of wharf, believed to have been placed at a later date from embayment fill, has contained PCBs.	Possible source of metals, PCBs, PAHs, and SVOCs	Numerous investigations have been completed along the shoreline and have identified metals, PCBs, PAHs, and SVOCs above screening levels.	Additional groundwater monitoring points needed. Deeper soil samples needed.	Additional borings and monitoring wells proposed to be completed along the shoreline and within embayment area.	Data gap closed. SB-2020-013, MW-53, and MW-54 were completed along the shoreline. SB-2020-007, SB-2020-008, SB-2021-065, and MW-65 completed within the footprint of the embayment. PCBs were detected in soil at low levels (generally below 0.2 mg/kg) but were not typically detected in groundwater (except at MW-39, potentially due to particulates). Samples taken from the boring for MW-54 contained elevated PCBs (56.1 D mg/kg at 1 ft bgs) which decreased with depth. Sporadic metal exceedances occurred in soil; these exceedances were not significantly above screening levels. Except for manganese and nickel (at MW-65), groundwater in this area did not contain metals at concentrations above screening levels.
Area 9 - Northwest Corner and Northern Property Boundary						
Diesel Fueling and Used Oil Storage (Former Waste Chemical Storage) Building and Diesel Fuel Tank (See Figures 2A and A-3)	Building constructed with metal beams, roof, and siding. Floor is concrete and bermed. Floor and berm appeared to be in good condition. Historical documents suggest waste solvents, kerosene, and thinners may have been stored in the building. A steel 300-gallon AST was located within the building. The tanks was used to fuel Site vehicles. A larger AST previously occupied this location, but was replaced in 2010.	Some staining noted inside the building and in small isolated areas outside of the building (staining did not appear to be from same source).	Numerous investigations have been completed in this area. Petroleum contamination including TPH-G, TPH-D, and TPH-O present with highest concentrations measured to the north of the Diesel Fuel and Used Oil Storage Building.	Petroleum hydrocarbon impacts not fully delineated.	Four borings proposed to provide better delineation (SB-2020-014, SB-2020-015, SB-2020-016, and SB-2020-041).	Data gap closed. SB-2020-014, SB-2020-015, SB-2020-016, and SB-2021-041 were completed surrounding this area. Impact not identified at SB-2021-015, SB-2021-016, and SB-2021-041, indicating that the impacts in this area have been delineated. Soil samples taken from near the water table at SB-2020-014, near the northern property line, contained TPH-G at concentrations above the screening level. Past sampling has identified TPH-D and TPH-O in soil (generally at the water table). Impacts in this area appear to be associated with groundwater impacts from Boeing Plant 2.
Jorgensen Forge Outfall Site ("Property Line Outfall") (See Figure 2A)	Two buried stormwater pipes running east-west along the northern property boundary that discharged to the Lower Duwamish Waterway at the northwestern corner of the Site. The pipes received stormwater from multiple off-Site sources; primarily including Boeing Plant 2 and the King County International Airport. The 24-inch pipe briefly received drainage from the Bethlehem Steel facility and the City of Tukwila.	Some contamination within northwest corner of Site may not have been removed; typically below amended shoreline fill.	Heavily investigated area with a mass excavation completed to remove the bulk of contamination. Video surveys indicated that clay portions of the pipeline were intact; only CMP portions were identified as sources of contamination.	None.	Three borings added in northeast corner of property to evaluate for potential releases from the decommissioned 24-inch stormwater pipe. Borings will extend just past base of fill pipe fill material. (SB-2020-042, SB-2020-043, and SB-2020-044).	Data gap closed. Boring SB-2021-042, SB-2021-043, and SB-2021-044 completed to investigate the pipeline along the eastern end of the Site. Samples did not identify significant impact associated with the pipeline.
Boeing Other Area 11 (OA-11) (See Figures 2A and 22)	PCB-contaminated soil located at the Former Seattle City Light transformer pad within Boeing OA-11 located to the north of the Site to the north of the Diesel Fueling and Used Oil Storage Building.	Contamination extends onto the Site. Excavations have extended onto the Site but have not removed all PCB-containing soils.	Extensively investigated, but not fully delineated. Concentrations highest in shallow soils and decrease with depth and distance from OA-11.	Not fully delineated.	Nine borings proposed to be placed to the south of OA-11 in onsite locations to better delineate the extent of PCB impacts.	Data gap closed. Borings (SB-2021-018 through SB-2021-026 and SB-2021-048 through SB-2021-057) were completed in this area. PCB impacts were delineated to the south and east, but western delineation was not completed. Westernmost boring SB-2021-046 contained PCBs at 9.87D mg/kg. Distribution of contamination consistent with release from Boeing OA-11 Area of Discovery. Impacts are present within a silt lense typically encountered between approximately 2 and 3 feet bgs.

Table 40: Data Gap Review

Name of Feature	Observations	Comment	Relevant Investigations	Previous Data Gaps Assessment	Recommendations	Remedial Investigation Findings

NOTES:

< = greater than; AFFF = aqueous film forming foam; AHTB = Aluminum Heat Treat Building; AOD = argon-oxygen decarbonization; AST = aboveground storage tank; bfs = below floor surface; bgs = below ground surface; CMP = corrugated metal pipe; cPAH = carcinogenic polycyclic aromatic hydrocarbon; EAF =Electric Arc Furnace; ft = foot or feet; HVOC = halogenated volatile organic compound; LIF = laser-induced fluorescence; LNAPL = light nonaqueous phase liquid; mg/kg = milligrams per kilogram; MSDS = materials safety data sheet; MTBE = methyl tert-butyl ether; PAH = polycyclic aromatic hydrocarbon; PCB = polychlorinated biphenyls; PFAS = per- and polyfluoroalkyl substances; SVOC = semi-volatile organic compound; TEQ = toxicity equivalent quotient; TPH-G, -D, -O = total petroleum hydrocarbons as gasoline, diesel, and oil; UST = underground storage tank; VOC = volatile organic compound



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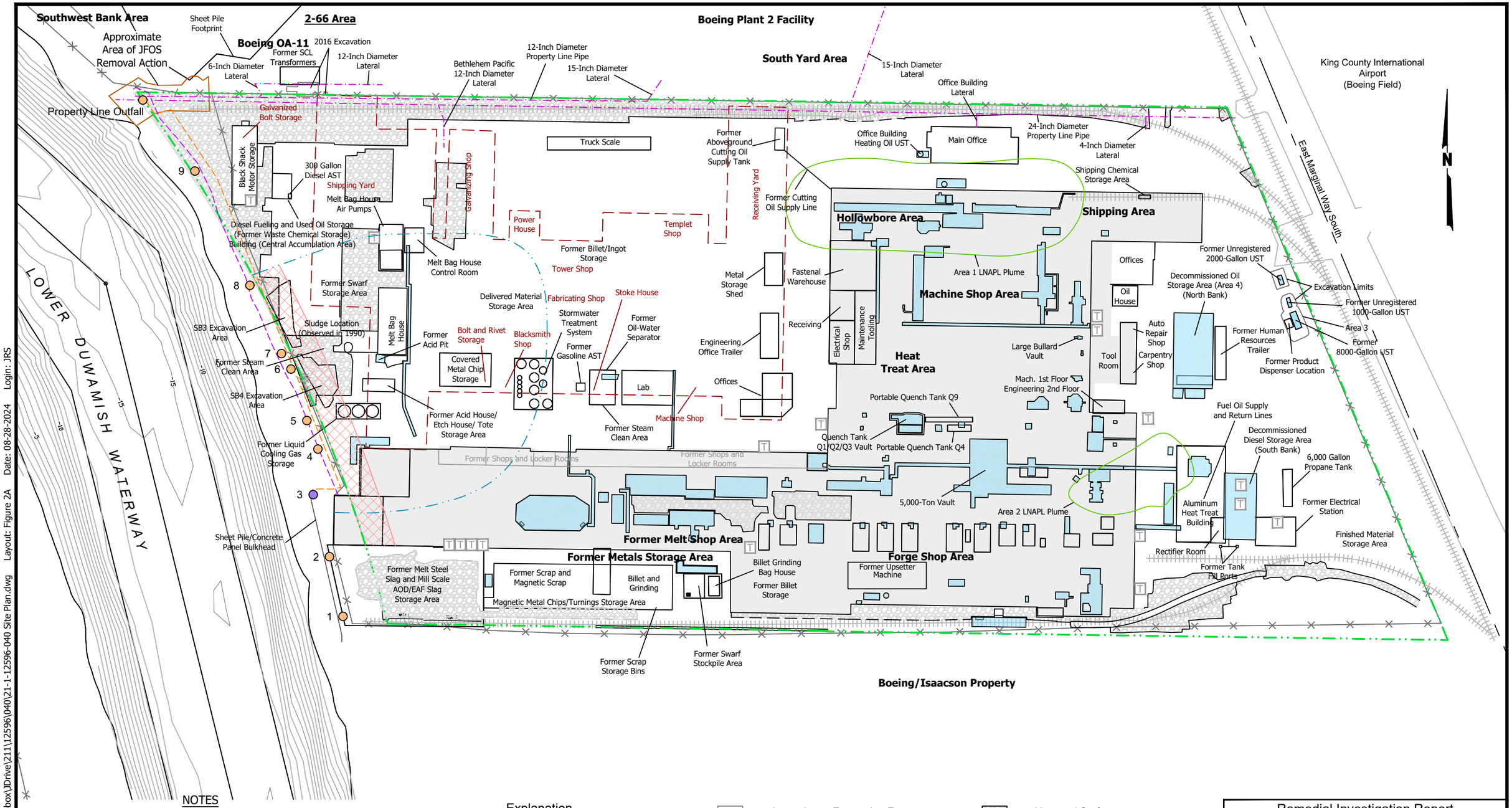
SITE LOCATION MAP

September 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. 1

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Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 Site Location.dwg Date: 08-26-2024 Login: JRS



NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017, *01012802-006.dwg*, prepared by Achor Environmental, LLC and Farallon Consulting, and *ACAD-J1743.05 09-01-2020.dwg* dated August 12, 2020, prepared by True North. Property Boundary from client file, *11078 Topo E-MAIL.dwg*, prepared by Anchor QEA, LLC., Dated Jan 24, 2012.

2. Red text refers to features of the former Bethlehem Steel Facility.

Explanation

- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Bethlehem Pacific Facility
- Former Embayment
- Property Line Outfall Pipes
- Estimated Extent of LNAPL on Groundwater (Farallon, August 2009)
- Approximate Excavation Extents
- Bulkhead Area
- 3 Outfall (Active)
- 9 Outfall (Inactive)
- Railroad
- Fence
- Transformer
- Below Ground Feature (Details Provided in Figure A-2 of Appendix A)
- Unpaved Surface

0 120 240
Scale in Feet

Remedial Investigation Report
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SITE PLAN
PRE-DEMOLITION

September 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. 2A

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Southwest Bank Area

Approximate Area of JFOS Removal Action

Sheet Pile Footprint

Boeing OA-11

Former SCL Transformers

2016 Excavation

6-Inch Diameter Lateral

12-Inch Diameter Lateral

Bethlehem Pacific 12-Inch Diameter Lateral

12-Inch Diameter Property Line Pipe

15-Inch Diameter Lateral

Boeing Plant 2 Facility

15-Inch Diameter Lateral

Office Building Lateral

24-Inch Diameter Property Line Pipe

4-Inch Diameter Lateral

King County International Airport (Boeing Field)

East Marginal Way South

N

Central Accumulation Area Excavation

Area 1 LNAPL Plume

Excavation Limits

Area 3

Bag House North Excavation

Stormwater Treatment System

SB3 Excavation Area

SB4 Excavation Area

Tote Storage Area Excavation

Decommissioned Oil Storage Area (North Bank) (Area 4) Excavation

Q1/Q2/Q3 Vault with Cover

2,500-Ton Press Vault with Cover

5,000-Ton Vault (Filled)

1,250-Ton Press Vault with Cover

Area 2 LNAPL Plume

Decommissioned Diesel Storage Area (South Bank) Excavation

660-Ton Press Vault with Cover

LOWER DUWAMISH WATERWAY

-5

-10

-15

3

Sheet Pile/Concrete Panel Bulkhead

WALL

WALL

Boeing/Isaacson Property

NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017, *01012802-006.dwg*, prepared by Achor Environmental, LLC and Farallon Consulting, and *ACAD-J1743.05 09-01-2020.dwg* dated August 12, 2020, prepared by True North. Property Boundary from client file, *11078 Topo E-MAIL.dwg*, prepared by Anchor QEA, LLC., Dated Jan 24, 2012.

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Explanation

- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Embayment
- Property Line Outfall Pipes
- Estimated Extent of LNAPL on Groundwater (Farallon, August 2009)
- Approximate Excavation Extents
- Bulkhead Area
- 3 Outfall (Active)
- Railroad
- Fence
- Unpaved Surface

0 120 240

Scale in Feet

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SITE PLAN
CURRENT CONDITIONS

November 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. 2B

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Approximate Area of JFOS Removal Action

Boeing Plant 2 Facility

2-66 Area

South Yard Area

Hollowbore Area

Shipping Area

Machine Shop Area

Heat Treat Area

Former Melt Shop Area

Forge Shop Area

JR-DGS3 SB-07201 T3B1 PL2-JF04A SB-07230r SB-07253 T3B4 T3B3 SB-07235 SB-07233r SB-07244 SB-07243 MW-50 MW-52 SB-2020-016 SB-2020-005 PL2-JF02A SB-17 MW-53 SB-16 SB-15 SB-2020-013 MW-46 SB-2021-039 MW-6 SB-2020-008 MW-44 SB6 3 MW-39 SB7 MW-68 MW-67 MW-38 SB-2021-047 MW-37 MW-7 SB-2021-017 MW-71 MW-66 MW-24 MW-49 MW-23 MW-25 MW-58 MW-8 MW-10 MW-31 MW-45 MW-62 MW-14 MW-15 MW-2 MW-13R MW-73 MW-12 MW-72 MW-61 MW-63 MW-64 MW-40 MW-41 MW-35 MW-60 MW-36

A A' B B' C C' D D' E E' F F' G G'

-3 -10 -15

FAIRWAY

Kin

68

N

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 Cross Sections Plan.dwg Layout: Figure 3 Date: 08-23-2024 Login: JRS

Explanation

- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Bethlehem Steel Facility
- Former Embayment
- Railroad
- Steam Tunnel
- Approximate Bulkhead Area
- 3 Outfall (Active)
- T Transformer
- SB-19 Soil Boring Location (Various)
- T3B2 Probe Boring (Floyd|Snyder)
- MW-23 Monitoring Well Location (Various)
- MW-2 Decommissioned
- SB-2020-005 Soil Boring (2020-2021)
- MW-71 Monitoring Well (2020-2021)
- Unpaved Surface
- A Generalized Subsurface Profile (See Figures 11 through 14)

0 100 200

Scale in Feet

NOTE

Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017, and *ACAD-J1743.05 09-01-2020.dwg* dated August 12, 2020, prepared by True North.

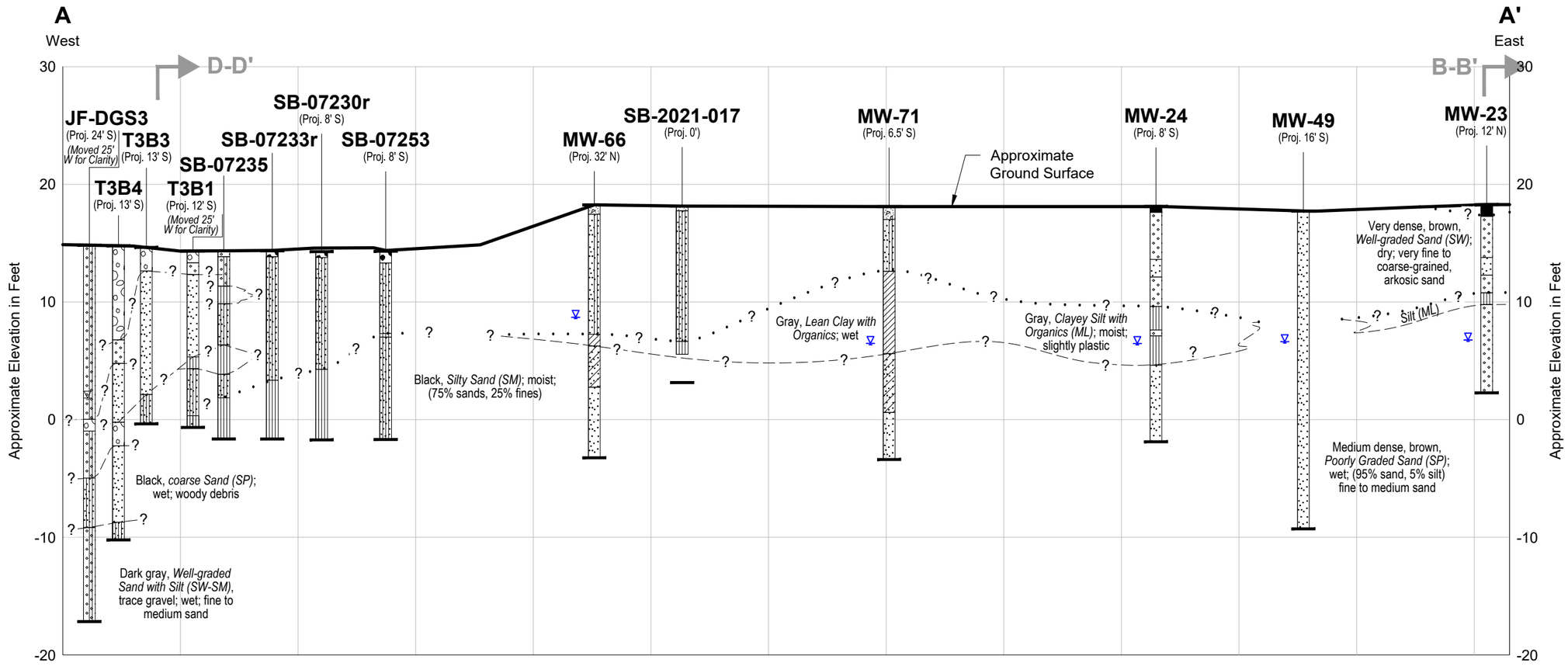
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Jorgensen Forge Corporation Property
Tukwila, Washington

CROSS SECTION LOCATION MAP

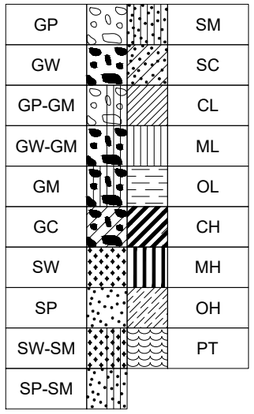
September 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. 3

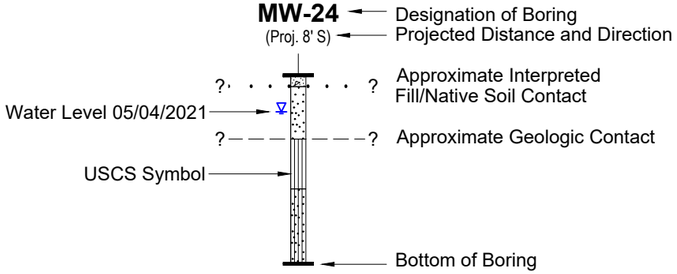
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UNIFIED SOIL CLASSIFICATION SYSTEM

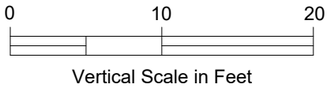


LEGEND



NOTES

1. Ground surface adapted from surveyed exploration data and should be considered approximate.
2. This subsurface profile is generalized from materials observed in soil borings. Variations may exist between profile and actual conditions.
3. Cross-Sections are based on field interpretations of original logs by various companies.
4. LNAPL = Light Non-Aqueous Phase Liquid.



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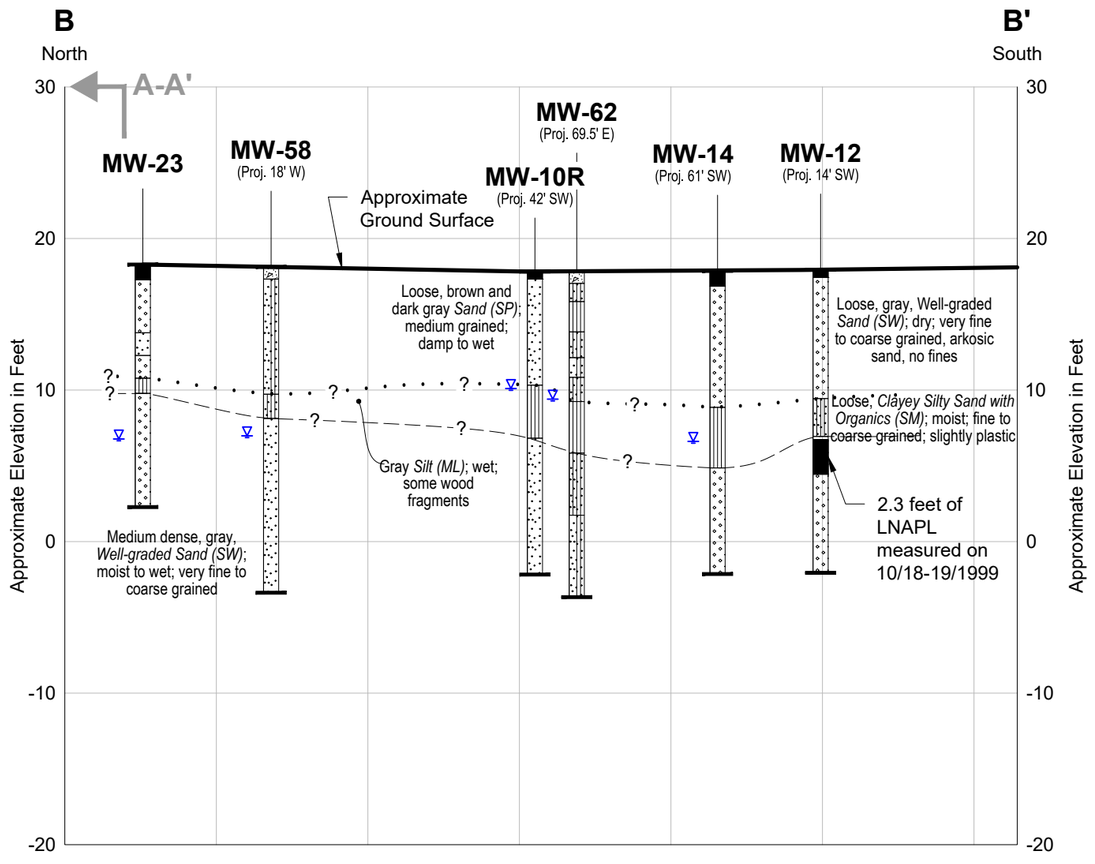
GENERALIZED SUBSURFACE PROFILE A-A'

November 2024 21-1-12596-040

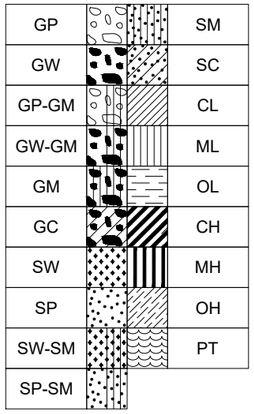
SHANNON & WILSON, INC. **FIG. 4**

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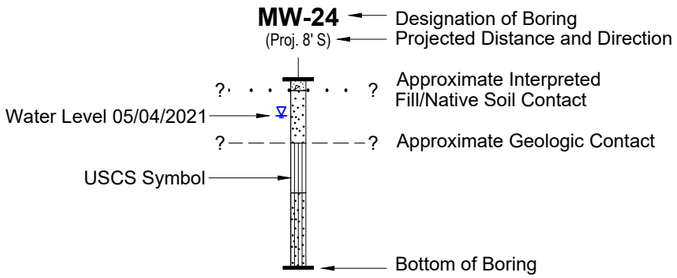
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UNIFIED SOIL CLASSIFICATION SYSTEM

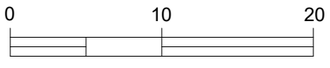


LEGEND



NOTES

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4. LNAPL = Light Non-Aqueous Phase Liquid.



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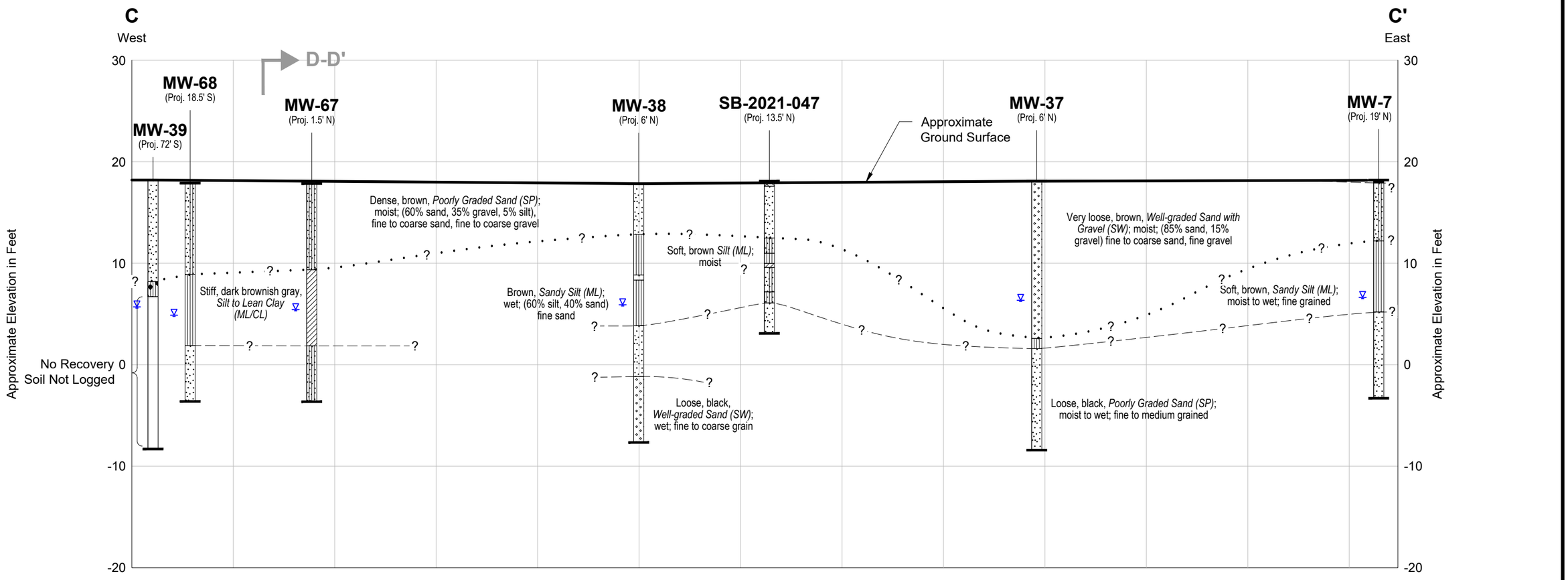
GENERALIZED SUBSURFACE PROFILE B-B'

November 2024 21-1-12596-040

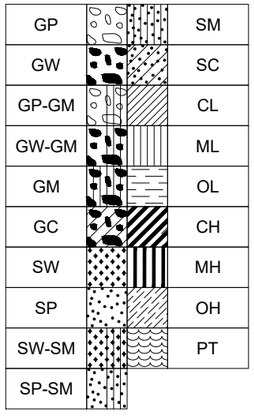
SHANNON & WILSON, INC. **FIG. 5**

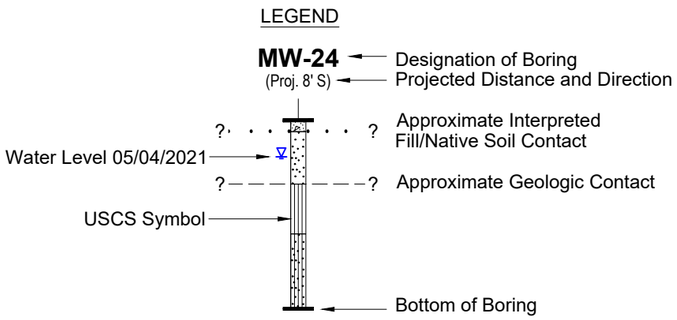
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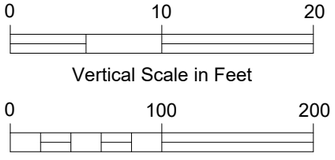
UNIFIED SOIL CLASSIFICATION SYSTEM





NOTES

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3. Cross-Sections are based on field interpretations of original logs by various companies.
4. LNAPL = Light Non-Aqueous Phase Liquid.



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Jorgensen Forge Corporation Property
Tukwila, Washington

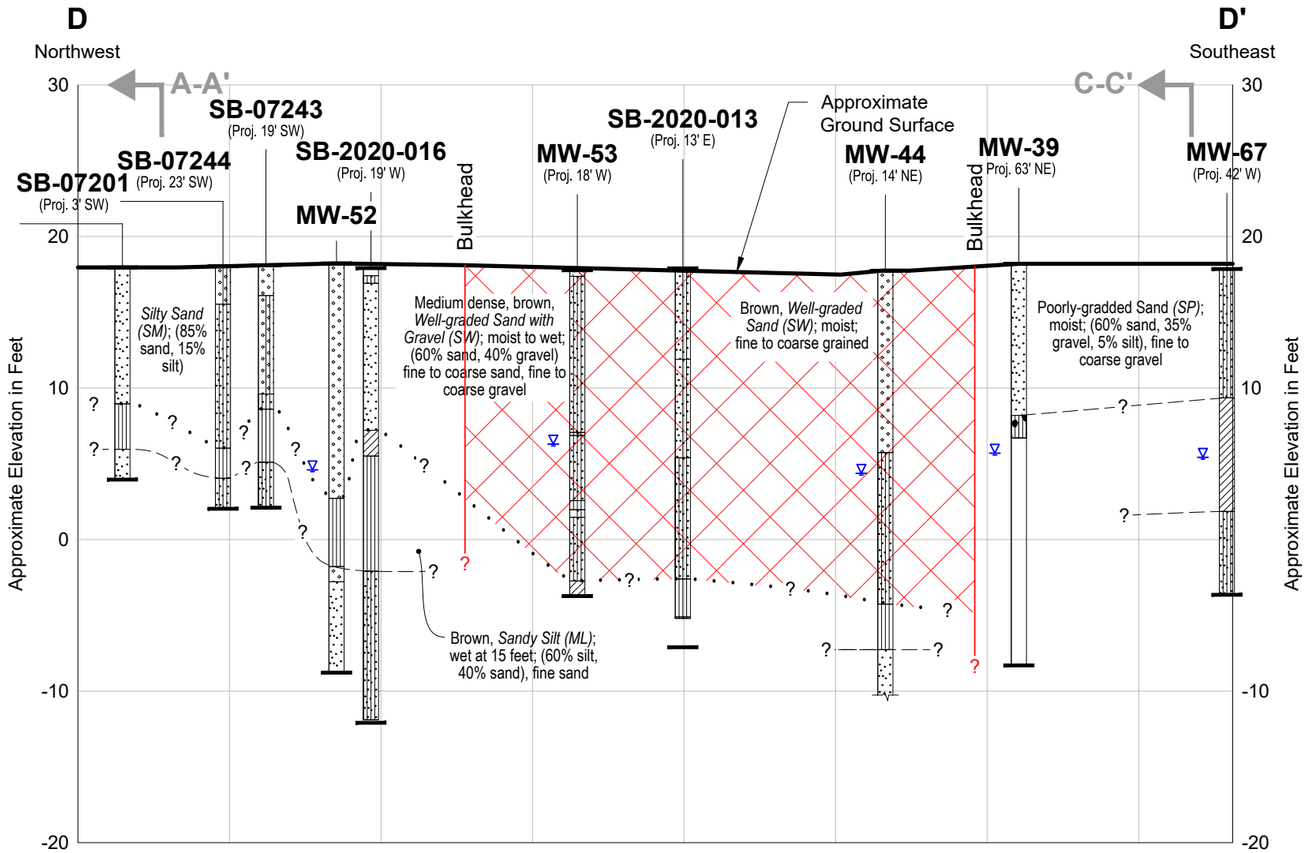
GENERALIZED SUBSURFACE PROFILE C-C'

November 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 6**

DRAFT FOR PUBLIC COMMENT

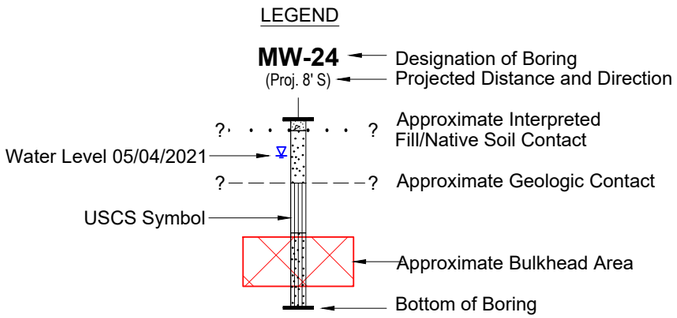
Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 Profiles.dwg Layout: C-C' Date: 11-12-2024 Login: JRS



UNIFIED SOIL CLASSIFICATION SYSTEM

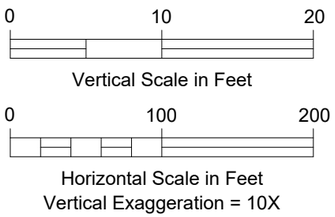
GP			SM
GW			SC
GP-GM			CL
GW-GM			ML
GM			OL
GC			CH
SW			MH
SP			OH
SW-SM			PT
SP-SM			

LEGEND



NOTES

1. Ground surface adapted from surveyed exploration data and should be considered approximate.
2. This subsurface profile is generalized from materials observed in soil borings. Variations may exist between profile and actual conditions.
3. Cross-Sections are based on field interpretations of original logs by various companies.
4. Bulkhead depth expected to vary. Depiction assumes pilings were driven into embayment sediment assumed to be the Sandy Silt layer.



Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

GENERALIZED SUBSURFACE PROFILE D-D'

November 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 7**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 Profiles.dwg Layout: D-D' Date: 11-12-2024 Login: JRS

E
North

E
South

Approximate Elevation in Feet

30
20
10
0
-10
-20
-30
-40
-50

MW50 (Proj. 0')

SB-2020-005 (Proj. 20.5' W)

Embayment Boundary

SB-17 (Proj. 0')

Bend in Section

SB-16 (Proj. 0')

Approximate Ground Surface

F-F'

SB-15 (Proj. 0')

SB-2020-008 (Proj. 7.5' W)

MW-6 (Proj. 0')

MW-44 (Proj. 43' E)

Bulkhead

Embayment Boundary

Bulkhead

SB-7 (Proj. 0')

Loose to medium dense, brown, *Well Graded Sand (SW)*; damp; fine to coarse sand; no to trace amounts of silt; no to minor gravel.

Soft, brown, *Sandy Silt (ML)*; wet; marine/organic odor.

Loose, brown to black, *Poorly Graded Sand (SP)*; wet; trace silt.

Gray to green gray, *Lean Silty Clay (CL)*; moist; trace fine sand.

Gray, *Sandy Silt (ML)*; damp.

Loose to medium dense, brown, *Well Graded Sand (SW)*; damp; fine to coarse sand; no to trace amounts of silt; no to minor gravel.

Brown to black, *Poorly Graded Sand with Silt lenses (SP/SM)*; wet; fine to medium grained; some silty sand.

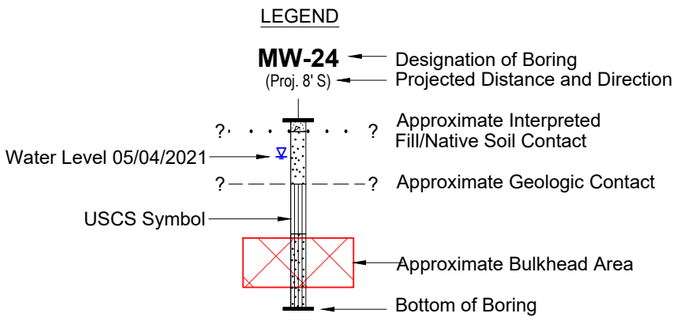
Brown, *Fill (GW)*; damp to wet; trace to some sand; fine to coarse gravel; bricks.

Fill; damp; potential slag material.

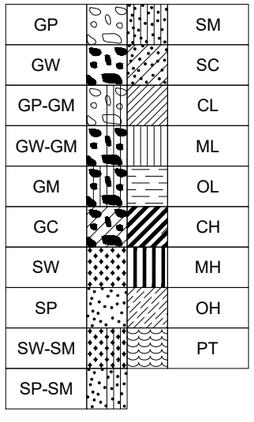
NOTES

1. Ground surface adapted from surveyed exploration data and should be considered approximate.
2. This subsurface profile is generalized from materials observed in soil borings. Variations may exist between profile and actual conditions.
3. Cross-Sections are based on field interpretations of original logs by various companies.
4. Bulkhead depth expected to vary. Depiction assumes pilings were driven into embayment sediment assumed to be the Sandy Silt layer.

LEGEND



UNIFIED SOIL CLASSIFICATION SYSTEM



0 10 20
Vertical Scale in Feet

0 40 80
Horizontal Scale in Feet
Vertical Exaggeration = 4X

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

GENERALIZED SUBSURFACE PROFILE E-E'

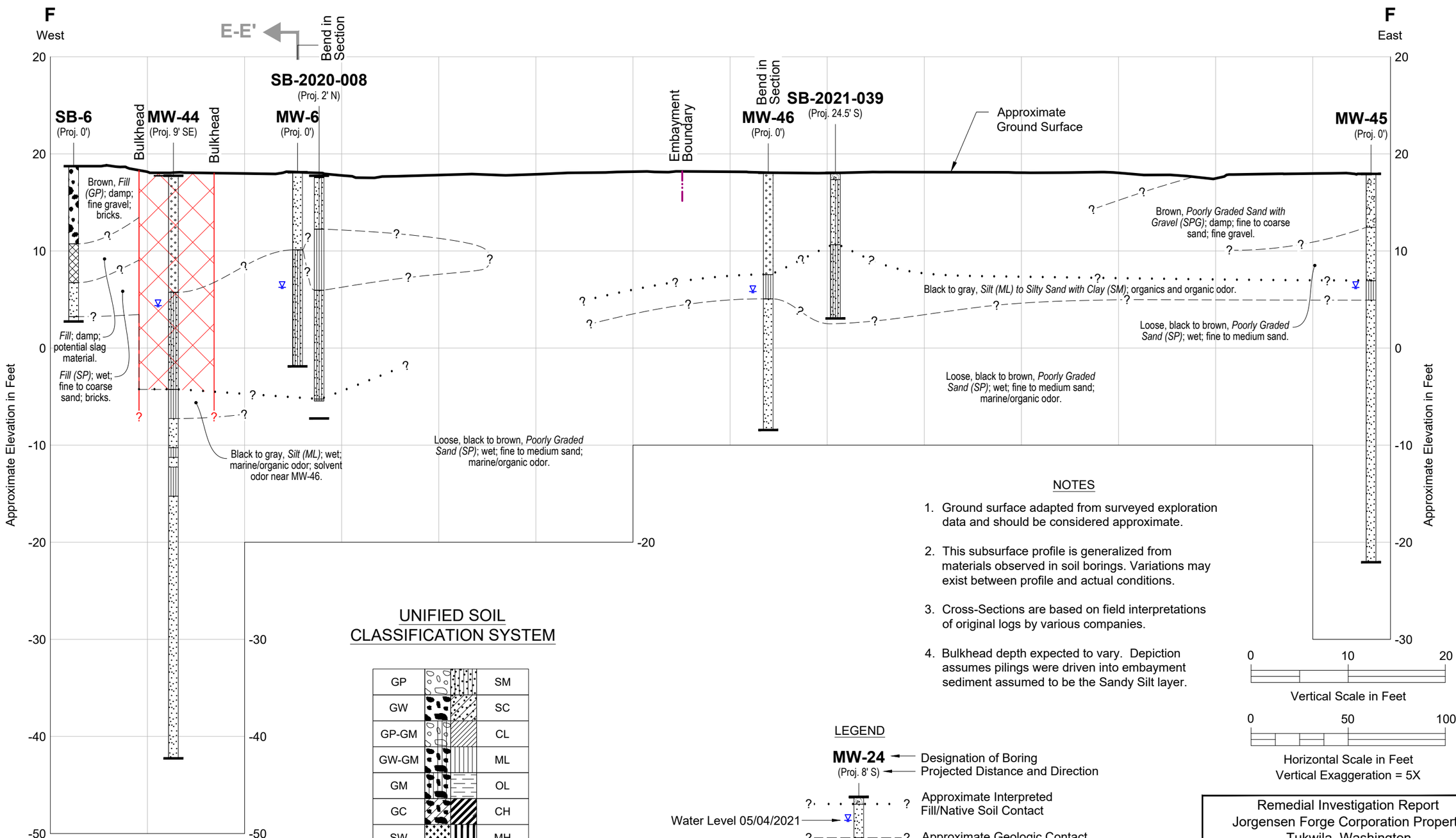
November 2024 21-1-12596-040

SHANNON & WILSON, INC.

FIG. 8

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\112596\040\21-1-12596-040 Profiles.dwg Layout: E-E' Date: 11-12-2024 Login: JRS



UNIFIED SOIL CLASSIFICATION SYSTEM

GP		SM
GW		SC
GP-GM		CL
GW-GM		ML
GM		OL
GC		CH
SW		MH
SP		OH
SW-SM		PT
SP-SM		

NOTES

1. Ground surface adapted from surveyed exploration data and should be considered approximate.
2. This subsurface profile is generalized from materials observed in soil borings. Variations may exist between profile and actual conditions.
3. Cross-Sections are based on field interpretations of original logs by various companies.
4. Bulkhead depth expected to vary. Depiction assumes pilings were driven into embayment sediment assumed to be the Sandy Silt layer.

LEGEND

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

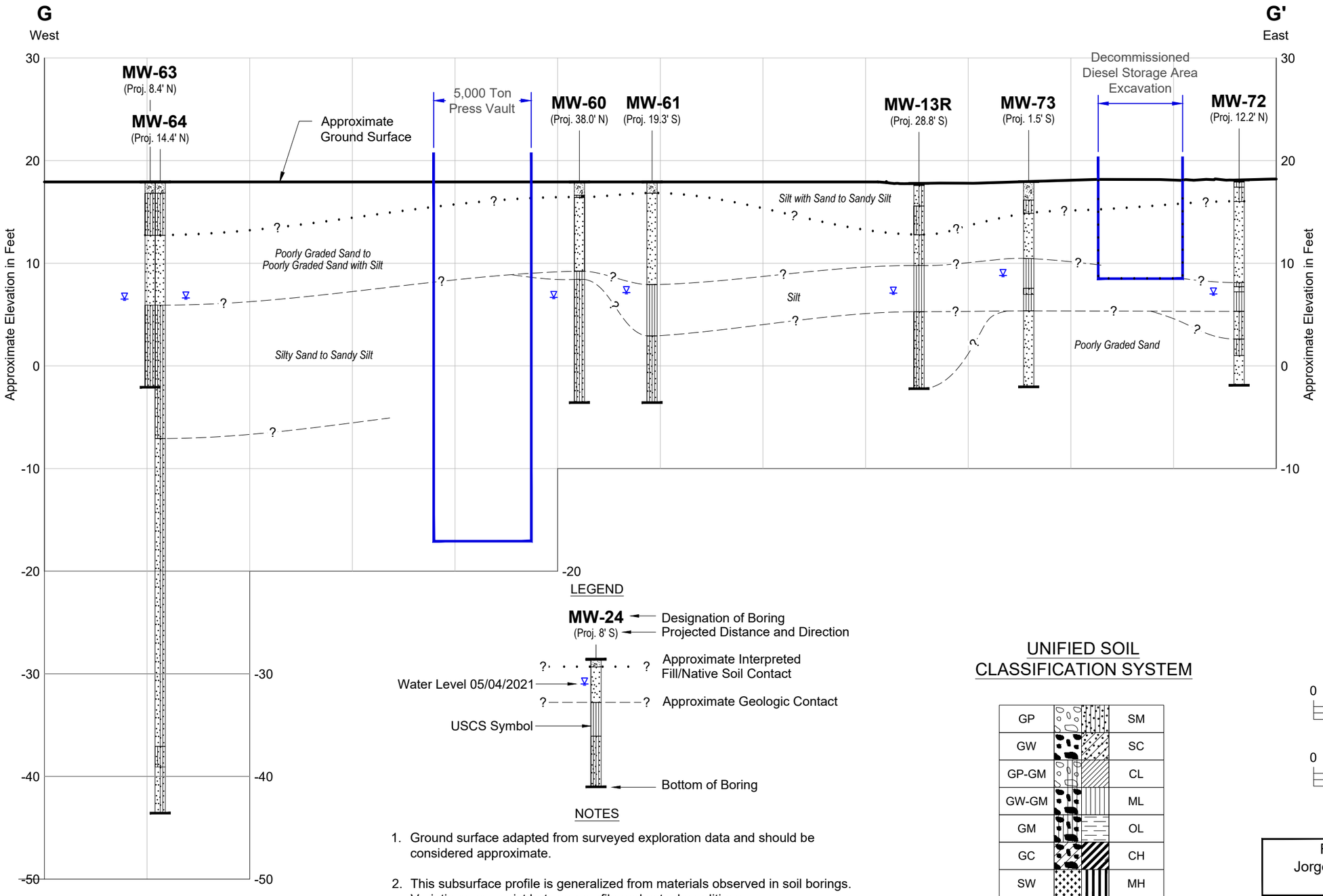
GENERALIZED SUBSURFACE PROFILE F-F'

November 2024 | 21-1-12596-040

SHANNON & WILSON, INC. | **FIG. 9**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 Profiles.dwg Layout: F-F' Date: 11-12-2024 Login: JRS

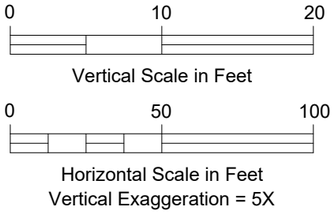


LEGEND

NOTES

1. Ground surface adapted from surveyed exploration data and should be considered approximate.
2. This subsurface profile is generalized from materials observed in soil borings. Variations may exist between profile and actual conditions.
3. Cross-Sections are based on field interpretations of original logs by various companies.
4. Bulkhead depth expected to vary. Depiction assumes pilings were driven into embayment sediment assumed to be the Sandy Silt layer.

UNIFIED SOIL CLASSIFICATION SYSTEM



Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

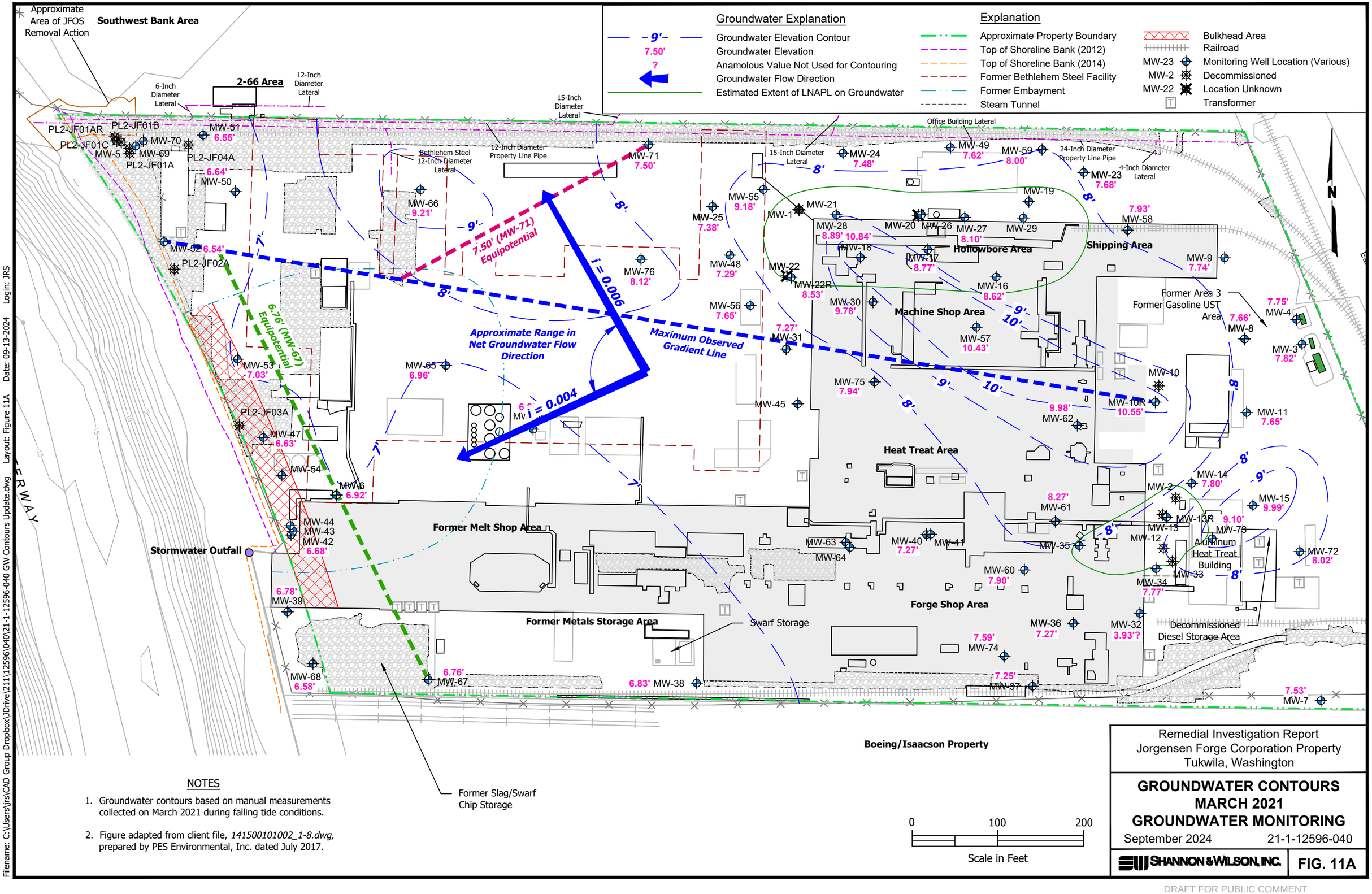
GENERALIZED SUBSURFACE PROFILE G-G'

November 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 10**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 Profiles.dwg Layout: G-G' Date: 11-12-2024 Login: JRS



NOTES

1. Groundwater contours based on manual measurements collected on March 2021 during falling tide conditions.
2. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

GROUNDWATER CONTOURS MARCH 2021 GROUNDWATER MONITORING

September 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. 11A

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 GW Contours Update.dwg Layout: Figure 11A Date: 09-13-2024 Login: JRS

Groundwater Explanation

- Groundwater Elevation Contour
- Groundwater Elevation
- Anamolous Value Not Used for Contouring
- Groundwater Flow Direction

Explanation

- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Bethlehem Steel Facility
- Former Embayment
- Steam Tunnel
- Bulkhead Area
- Railroad
- Monitoring Well Location (Various)
- Decommissioned
- Location Unknown
- Transformer

Approximate Area of JFOS Removal Action

Southwest Bank Area

2-66 Area

6-Inch Diameter Lateral

12-Inch Diameter Lateral

15-Inch Diameter Lateral

Office Building Lateral

15-Inch Diameter Lateral

24-Inch Diameter Property Line Pipe

4-Inch Diameter Lateral

Bethlehem Steel 12-Inch Diameter Lateral

12-Inch Diameter Property Line Pipe

PL2-JF01AR

PL2-JF01B

PL2-JF01C

PL2-JF01A

PL2-JF02A

PL2-JF03A

PL2-JF04A

6.61'

MW-5

MW-69

MW-70

MW-51

MW-50

MW-52

MW-53

MW-54

MW-66

MW-71

MW-24

MW-49

MW-59

MW-23

MW-55

MW-1

MW-21

MW-25

MW-28

MW-20

MW-26

MW-27

MW-29

MW-19

MW-58

MW-18

MW-17

MW-9

MW-48

MW-76

MW-22

MW-22R

MW-16

MW-56

MW-30

MW-4

MW-8

MW-3

MW-31

MW-57

MW-65

MW-75

MW-10

MW-10R

MW-11

MW-45

7.24'

MW-46

MW-62

MW-47

MW-14

MW-2

MW-15

MW-61

MW-13R

MW-13

MW-78

MW-12

MW-35

MW-40

MW-41

7.24'

MW-63

MW-64

7.56'

MW-72

MW-60

MW-33

MW-34

MW-36

MW-32

MW-74

MW-37

MW-7

MW-38

MW-67

MW-68

MW-39

MW-44

MW-43

6.29'

MW-42

6.03'

MW-6

6' Equipotential

6.76' (MW-67)

7'

Former Area 3 Former Gasoline UST Area

Hollowbore Area

Shipping Area

Machine Shop Area

Heat Treat Area

Former Melt Shop Area

Forge Shop Area

Former Metals Storage Area

Aluminum Heat Treat Building

Decommissioned Diesel Storage Area

Swarf Storage

Former Slag/Swarf Chip Storage

Stormwater Outfall

WATERWAY

Boeing/Isaacson Property

N

0 100 200

Scale in Feet

NOTES

1. Groundwater contours based on manual measurements collected on March 2021 during falling tide conditions.
2. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

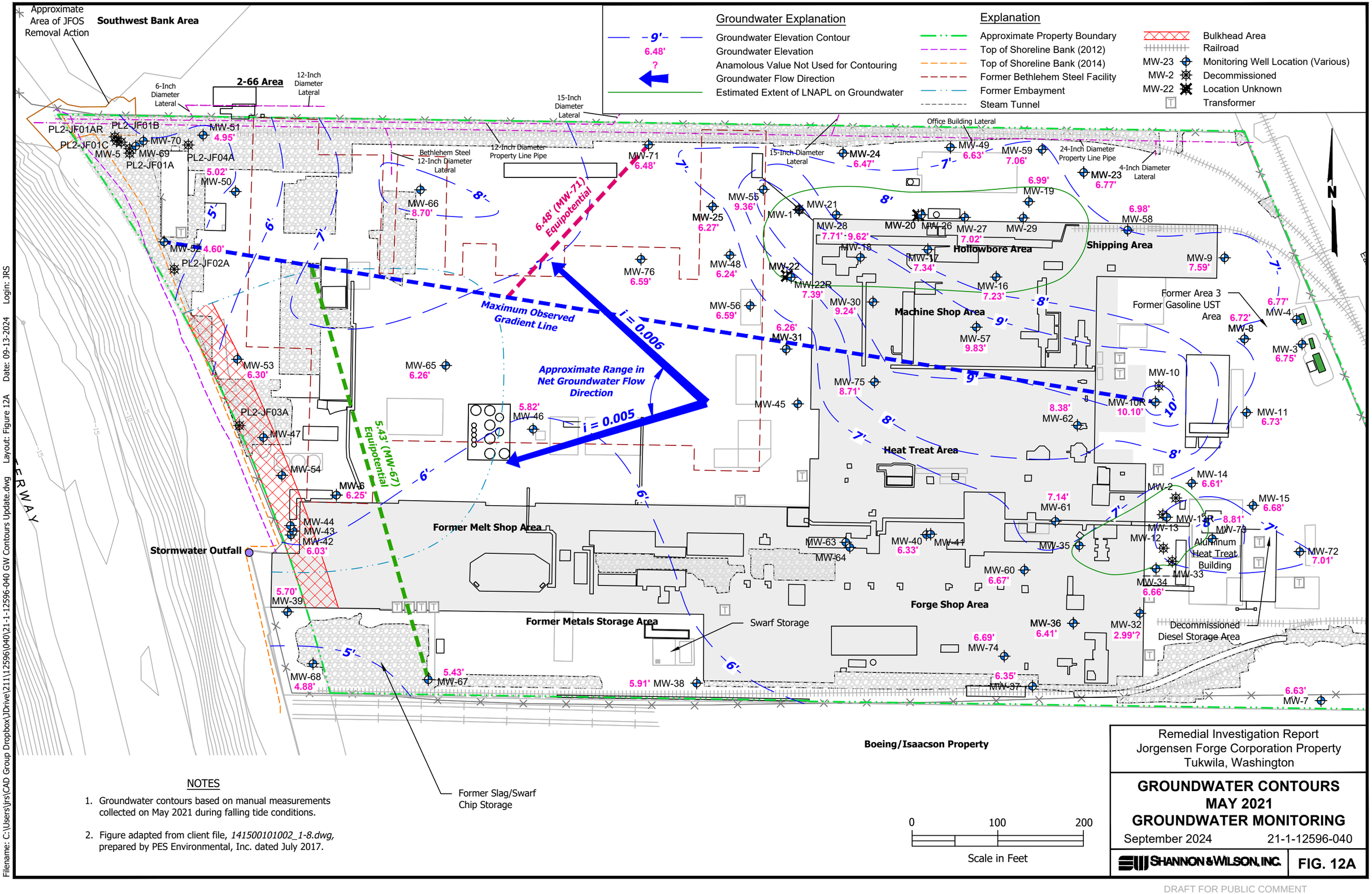
ZONE B
GROUNDWATER CONTOURS
MARCH 2021
GROUNDWATER MONITORING

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 11B**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 GW Contours.dwg Layout: Figure 11B Date: 08-28-2024 Login: JRS



NOTES

1. Groundwater contours based on manual measurements collected on May 2021 during falling tide conditions.
2. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

GROUNDWATER CONTOURS
MAY 2021
GROUNDWATER MONITORING

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 12A**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 GW Contours Update.dwg Layout: Figure 12A Date: 09-13-2024 Login: JRS

Groundwater Explanation

- Groundwater Elevation Contour
- Groundwater Elevation
- Anamolous Value Not Used for Contouring
- Groundwater Flow Direction

Explanation

- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Bethlehem Steel Facility
- Former Embayment
- Steam Tunnel
- Bulkhead Area
- Railroad
- Monitoring Well Location (Various)
- Decommissioned
- Location Unknown
- Transformer

Approximate Area of JFOS Removal Action

Southwest Bank Area

2-66 Area

6-Inch Diameter Lateral

12-Inch Diameter Lateral

15-Inch Diameter Lateral

Office Building Lateral

Bethlehem Steel 12-Inch Diameter Lateral

12-Inch Diameter Property Line Pipe

15-Inch Diameter Lateral

24-Inch Diameter Property Line Pipe

4-Inch Diameter Lateral

PL2-JF01AR

PL2-JF01B

PL2-JF01C

PL2-JF01A

PL2-JF02A

PL2-JF03A

PL2-JF04A

5.09'

MW-5

MW-69

MW-70

MW-51

MW-50

MW-52

MW-53

MW-54

MW-47

MW-6

4.37'

MW-44

MW-43 4.46'

MW-42

MW-66

MW-65

MW-46

MW-76

MW-71

MW-24

MW-49

MW-59

MW-23

MW-55

MW-25

MW-1

MW-21

MW-28

MW-20

MW-26

MW-27

MW-29

MW-19

MW-58

MW-18

MW-17

Hollowbore Area

Shipping Area

MW-9

MW-48

MW-22

MW-22R

MW-16

MW-56

MW-30

Machine Shop Area

MW-57

Former Area 3 Former Gasoline UST Area

MW-4

MW-8

MW-3

MW-31

MW-75

MW-10

MW-10R

MW-45

6.24'

MW-62

MW-11

Heat Treat Area

MW-14

MW-2

MW-15

MW-61

MW-13R

MW-13

MW-78

MW-12

Aluminum Heat Treat Building

MW-72

MW-33

MW-34

MW-63

MW-64

6.62'

MW-40

MW-41

6.32'

MW-35

MW-60

Former Melt Shop Area

Forge Shop Area

MW-36

MW-32

Decommissioned Diesel Storage Area

MW-74

MW-39

Former Metals Storage Area

Swarf Storage

MW-68

MW-67

MW-38

MW-37

MW-7

Stormwater Outfall

Former Slag/Swarf Chip Storage

Boeing/Isaacson Property

N

0 100 200

Scale in Feet

NOTES

1. Groundwater contours based on manual measurements collected on May 2021 during falling tide conditions.
2. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

ZONE B
GROUNDWATER CONTOURS
MAY 2021
GROUNDWATER MONITORING

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 12B**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 GW Contours.dwg Layout: Figure 12B Date: 08-28-2024 Login: JRS

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 GW Contours Update.dwg Layout: Figure 13A Date: 09-13-2024 Login: JRS

Groundwater Explanation

- 9' — Groundwater Elevation Contour
- 6.18' — Groundwater Elevation
- ? — Anamolous Value Not Used for Contouring
- Groundwater Flow Direction
- Estimated Extent of LNAPL on Groundwater

Explanation

- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Bethlehem Steel Facility
- Former Embayment
- Steam Tunnel
- Bulkhead Area
- Railroad
- MW-23 — Monitoring Well Location (Various)
- MW-2 — Decommissioned
- MW-22 — Location Unknown
- T — Transformer

Approximate Area of JFOS Removal Action

Southwest Bank Area

2-66 Area

6-Inch Diameter Lateral

12-Inch Diameter Lateral

15-Inch Diameter Lateral

Bethlehem Steel 12-Inch Diameter Lateral

12-Inch Diameter Property Line Pipe

15-Inch Diameter Lateral

Office Building Lateral

24-Inch Diameter Property Line Pipe

4-Inch Diameter Lateral

PL2-JF01AR 6.49' MW-51

PL2-JF01B MW-70

PL2-JF01C MW-5 MW-69

PL2-JF01A

PL2-JF04A 6.51'

MW-50

MW-52 7.00'

PL2-JF02A

MW-66 8.01'

MW-71 6.18'

MW-76 6.18'

MW-25 5.91'

MW-55 6.60'

MW-24 5.96'

MW-49 6.06'

MW-59 6.44'

MW-23 6.13'

MW-19 6.79'

MW-21

MW-1

MW-28 6.77'

MW-20

MW-26

MW-27 6.39'

MW-29

MW-18 8.59'

MW-17 6.46'

MW-58 6.38'

MW-22

MW-22R 7.20'

MW-48 5.86'

MW-56 6.24'

MW-30 8.66'

MW-16 7.15'

MW-9 6.15'

MW-4 6.15'

MW-8 6.12'

MW-3 6.15'

MW-31 5.86'

MW-57 7.81'

MW-10

MW-10R 9.47'

MW-11 6.10'

MW-75 6.94'

MW-45

MW-62 7.89'

MW-14 6.05'

MW-2

MW-15 6.09'

MW-61 6.24'

MW-13R 6.34'

MW-13

MW-73

MW-12

MW-35

MW-72 6.42'

MW-63

MW-64

MW-40 5.92'

MW-41

MW-60 6.21'

MW-33

MW-34 6.06'

MW-53 6.18'

MW-65 5.90'

MW-46 5.59'

MW-47 5.78'?

MW-54

MW-6 5.79'

MW-44

MW-43

MW-42 5.87'

MW-39 6.85'

MW-68 6.92'

MW-67 6.22'

MW-38 5.71'

MW-74 6.20'

MW-36 5.89'

MW-32 2.43'?

MW-37 5.88'

MW-7 6.05'

6.18' (MW-71) Equipotential

5.71' (MW-38) Equipotential

i = 0.005

i = 0.006

Approximate Range in Net Groundwater Flow Direction

Maximum Observed Gradient Line (Tide Coming In)

Hollowbore Area

Shipping Area

Machine Shop Area

Heat Treat Area

Former Area 3 Former Gasoline UST Area

Former Melt Shop Area

Stormwater Outfall

Former Metals Storage Area

Swarf Storage

Former Slag/Swarf Chip Storage

Forge Shop Area

Aluminum Heat Treat Building

Decommissioned Diesel Storage Area

Boeing/Isaacson Property

RUNWAY

N

0 100 200

Scale in Feet

NOTES

1. Groundwater contours based on manual measurements collected on August 2021 during falling tide conditions.
2. Figure adapted from client file, *141500101002_1-8.dwg,* prepared by PES Environmental, Inc. dated July 2017.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

GROUNDWATER CONTOURS
AUGUST 2021
GROUNDWATER MONITORING

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 13A**

DRAFT FOR PUBLIC COMMENT

Approximate Area of JFOS Removal Action

Southwest Bank Area

2-66 Area

6-Inch Diameter Lateral

12-Inch Diameter Lateral

15-Inch Diameter Lateral

Office Building Lateral

Bethlehem Steel 12-Inch Diameter Lateral

12-Inch Diameter Property Line Pipe

15-Inch Diameter Lateral

24-Inch Diameter Property Line Pipe

4-Inch Diameter Lateral

PL2-JF01AR

PL2-JF01B 6.96'

PL2-JF01C

PL2-JF01A

PL2-JF02A

PL2-JF03A

PL2-JF04A

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-10R MW-11 MW-12 MW-13 MW-13R MW-14 MW-15 MW-16 MW-17 MW-18 MW-19 MW-20 MW-21 MW-22 MW-22R MW-23 MW-24 MW-25 MW-26 MW-27 MW-28 MW-29 MW-30 MW-31 MW-32 MW-33 MW-34 MW-35 MW-36 MW-37 MW-38 MW-39 MW-40 MW-41 5.89' MW-42 MW-43 6.83' MW-44 6.36' MW-45 5.84' MW-46 MW-47 MW-48 MW-49 MW-50 MW-51 MW-52 MW-53 MW-54 MW-55 MW-56 MW-57 MW-58 MW-59 MW-60 MW-61 MW-62 MW-63 MW-64 6.21' MW-65 MW-66 MW-67 MW-68 MW-69 MW-70 MW-71 MW-72 MW-74 MW-75 MW-76 MW-78

Hollowbore Area

Shipping Area

Machine Shop Area

Heat Treat Area

Former Melt Shop Area

Forge Shop Area

Former Metals Storage Area

Former Area 3 Former Gasoline UST Area

Aluminum Heat Treat Building

Decommissioned Diesel Storage Area

Swarf Storage

Former Slag/Swarf Chip Storage

Stormwater Outfall

Boeing/Isaacson Property

WATERWAY

Groundwater Explanation

- 9' — Groundwater Elevation Contour
- 6.18' — Groundwater Elevation
- ? — Anamolous Value Not Used for Contouring
- Groundwater Flow Direction

Explanation

- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Bethlehem Steel Facility
- Former Embayment
- Steam Tunnel
- Bulkhead Area
- Railroad
- MW-23 Monitoring Well Location (Various)
- MW-2 Decommissioned
- MW-22 Location Unknown
- T Transformer

N

0 100 200

Scale in Feet

NOTES

1. Groundwater contours based on manual measurements collected on August 2021 during falling tide conditions.
2. Figure adapted from client file, *141500101002_1-8.dwg,* prepared by PES Environmental, Inc. dated July 2017.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

ZONE B
GROUNDWATER CONTOURS
AUGUST 2021
GROUNDWATER MONITORING

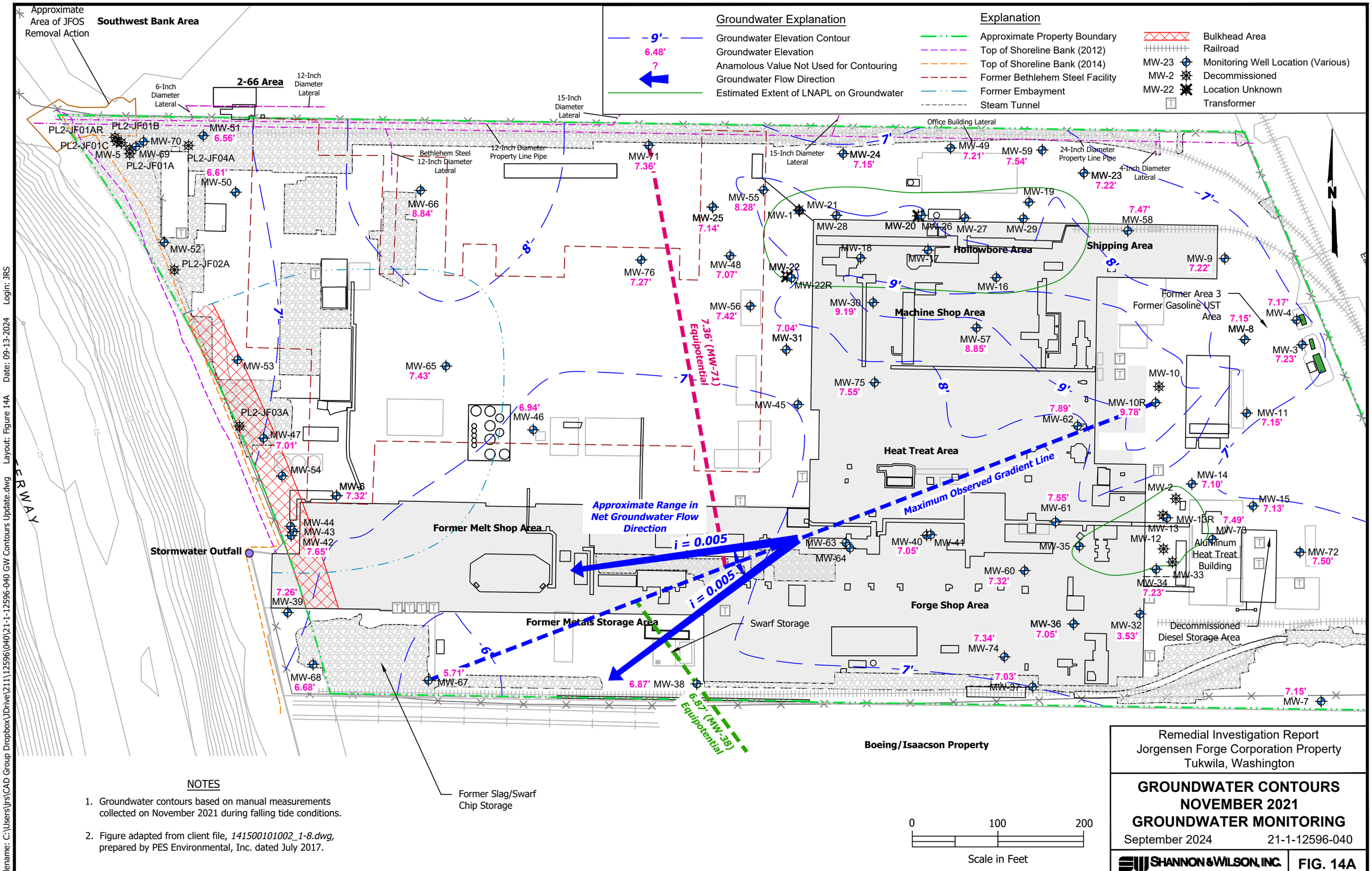
September 2024 21-1-12596-040

SHANNON & WILSON, INC.

FIG. 13B

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 GW Contours.dwg Layout: Figure 13B Date: 08-28-2024 Login: JRS



NOTES

1. Groundwater contours based on manual measurements collected on November 2021 during falling tide conditions.
2. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

GROUNDWATER CONTOURS
NOVEMBER 2021
GROUNDWATER MONITORING

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 14A**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 GW Contours Update.dwg Layout: Figure 14A Date: 09-13-2024 Login: JRS

Groundwater Explanation

- Groundwater Elevation Contour
- Groundwater Elevation
- Anamolous Value Not Used for Contouring
- Groundwater Flow Direction

Explanation

- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Bethlehem Steel Facility
- Former Embayment
- Steam Tunnel
- Bulkhead Area
- Railroad
- Monitoring Well Location (Various)
- Decommissioned
- Location Unknown
- Transformer

Approximate Area of JFOS Removal Action

Southwest Bank Area

2-66 Area

6-Inch Diameter Lateral

12-Inch Diameter Lateral

15-Inch Diameter Lateral

Office Building Lateral

15-Inch Diameter Lateral

24-Inch Diameter Property Line Pipe

4-Inch Diameter Lateral

Bethlehem Steel 12-Inch Diameter Lateral

12-Inch Diameter Property Line Pipe

PL2-JF01AR

PL2-JF01B

PL2-JF01C

PL2-JF01A

PL2-JF02A

PL2-JF03A

PL2-JF04A

6.83'

MW-5

MW-69

MW-70

MW-51

MW-50

MW-52

MW-53

MW-54

MW-47

MW-46

MW-66

MW-65

MW-76

MW-71

MW-24

MW-49

MW-59

MW-23

MW-55

MW-25

MW-1

MW-21

MW-28

MW-20

MW-26

MW-27

MW-29

MW-19

MW-58

MW-18

MW-17

Hollowbore Area

Shipping Area

MW-9

MW-48

MW-22

MW-22R

MW-16

MW-56

MW-30

Machine Shop Area

MW-57

MW-31

MW-75

MW-45

7.02'

MW-62

Heat Treat Area

Former Area 3 Former Gasoline UST Area

MW-4

MW-8

MW-3

MW-10

MW-10R

MW-11

MW-14

MW-2

MW-15

MW-61

MW-13R

MW-13

MW-78

MW-12

Aluminum Heat Treat Building

MW-72

MW-33

MW-34

MW-35

MW-63

MW-64

7.43'

MW-40

MW-41

7.02'

MW-60

Forge Shop Area

MW-36

MW-32

Decommissioned Diesel Storage Area

MW-74

MW-37

MW-7

MW-38

MW-39

MW-68

MW-67

6.01'

MW-44

MW-43 6.33'

MW-42

6.9'

Former Melt Shop Area

Former Metals Storage Area

Swarf Storage

Former Slag/Swarf Chip Storage

Stormwater Outfall

Boeing/Isaacson Property

N

0 100 200

Scale in Feet

NOTES

1. Groundwater contours based on manual measurements collected on November 2021 during falling tide conditions.
2. Figure adapted from client file, *141500101002_1-8.dwg,* prepared by PES Environmental, Inc. dated July 2017.

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Jorgensen Forge Corporation Property
Tukwila, Washington

ZONE B
GROUNDWATER CONTOURS
NOVEMBER 2021
GROUNDWATER MONITORING

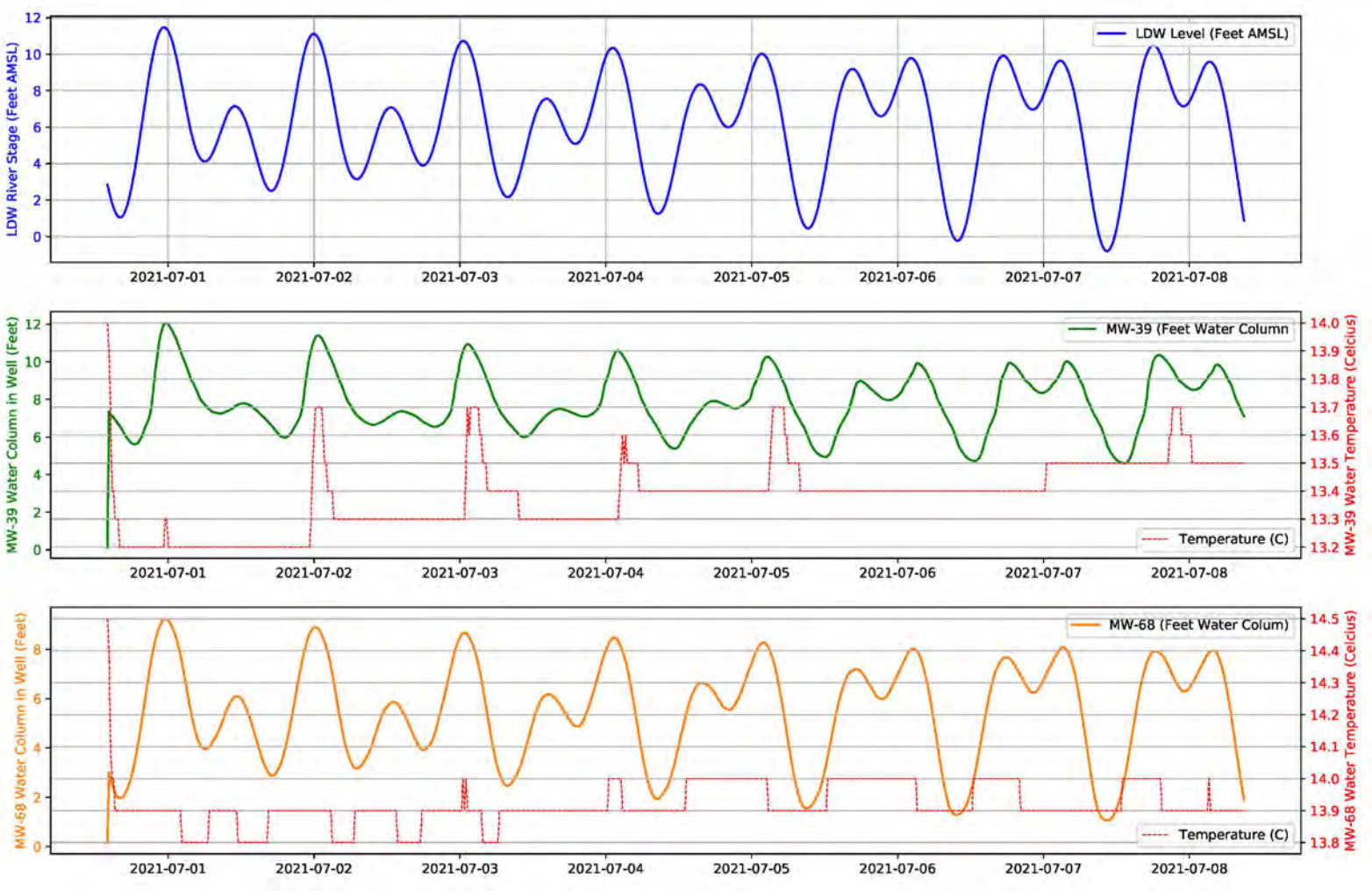
September 2024 21-1-12596-040

SHANNON & WILSON, INC.

FIG. 14B

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 GW Contours.dwg Layout: Figure 14B Date: 08-28-2024 Login: JRS



Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

MONITORING WELLS LEVELS AND LDW RIVER LEVELS

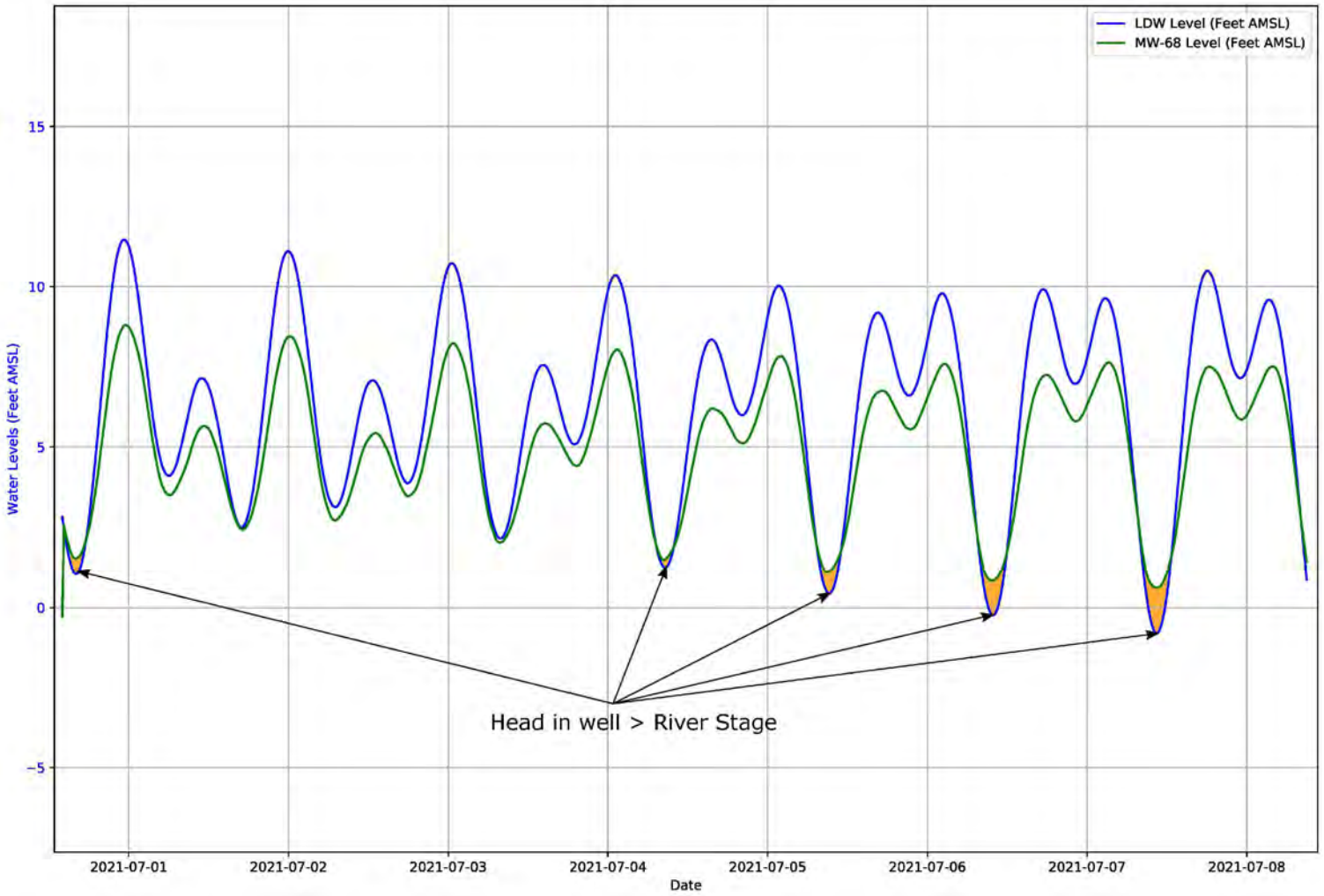
September 2024 21-1-12596-040

SHANNON & WILSON, INC.

FIG. 15A

FIG. 15A

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Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

MONITORING WELL LEVELS AND LDW RIVER LEVELS

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 15B**

FIG. 15B

DRAFT FOR PUBLIC COMMENT

Boeing Plant 2 Facility

South Yard Area

2-66 Area

SEE FIGURE 16D

SEE FIGURE 16C

SEE FIGURE 16B

Approximate Area of JFOS Removal Action

Collective Discharge

6-Inch Diameter Lateral

12-Inch Diameter Lateral

12-Inch Diameter Property Line Pipe

15-Inch Diameter Lateral

15-Inch Diameter Lateral

Office Building Lateral

24-Inch Diameter Property Line Pipe

4-Inch Diameter Lateral

Bethlehem Steel 12-Inch Diameter Lateral

Hollowbore Area

Machine Shop Area

Heat Treat Area

Forge Shop Area

Former Melt Shop Area

Former Metals Storage Area

Shipping Area

Area 1 LNAPL Plume

Area 2 LNAPL Plume

Asphalt-003

Asphalt-004

Asphalt-005

Stain-001

Stain-002

Stain-003

WATERWAY

N

NOTE

Except where surveyed, locations are approximate.

0 100 200

Scale in Feet

Explanation

- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Bethlehem Steel Facility
- Former Embayment
- Estimated Extent of LNAPL on Groundwater (Farallon, August 2009)
- Steam Tunnel
- Railroad
- Bulkhead Area
- 3 Outfall (Active)
- 9 Outfall (Inactive)
- SB-19 Soil Boring Location (Various)
- MW-23 Monitoring Well Location (Various)
- P-7 Probe Boring (Various)
- MW-2 Decommissioned
- MW-22 Location Unknown
- T Transformer
- MW-22 Location Unknown
- FB-1 FB Location (Various)
- SB-2020-001 Soil Boring (2020-2021)
- MW-69 Monitoring Well (2020-2021)
- A2-1 Completed LNAPL Delineation Probe Boring
- HA-2020-004 Hand Auger Sample (2020-2021)
- Asphalt-005 Pavement Chip Samples (2020-2021)
- Unpaved Surface

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

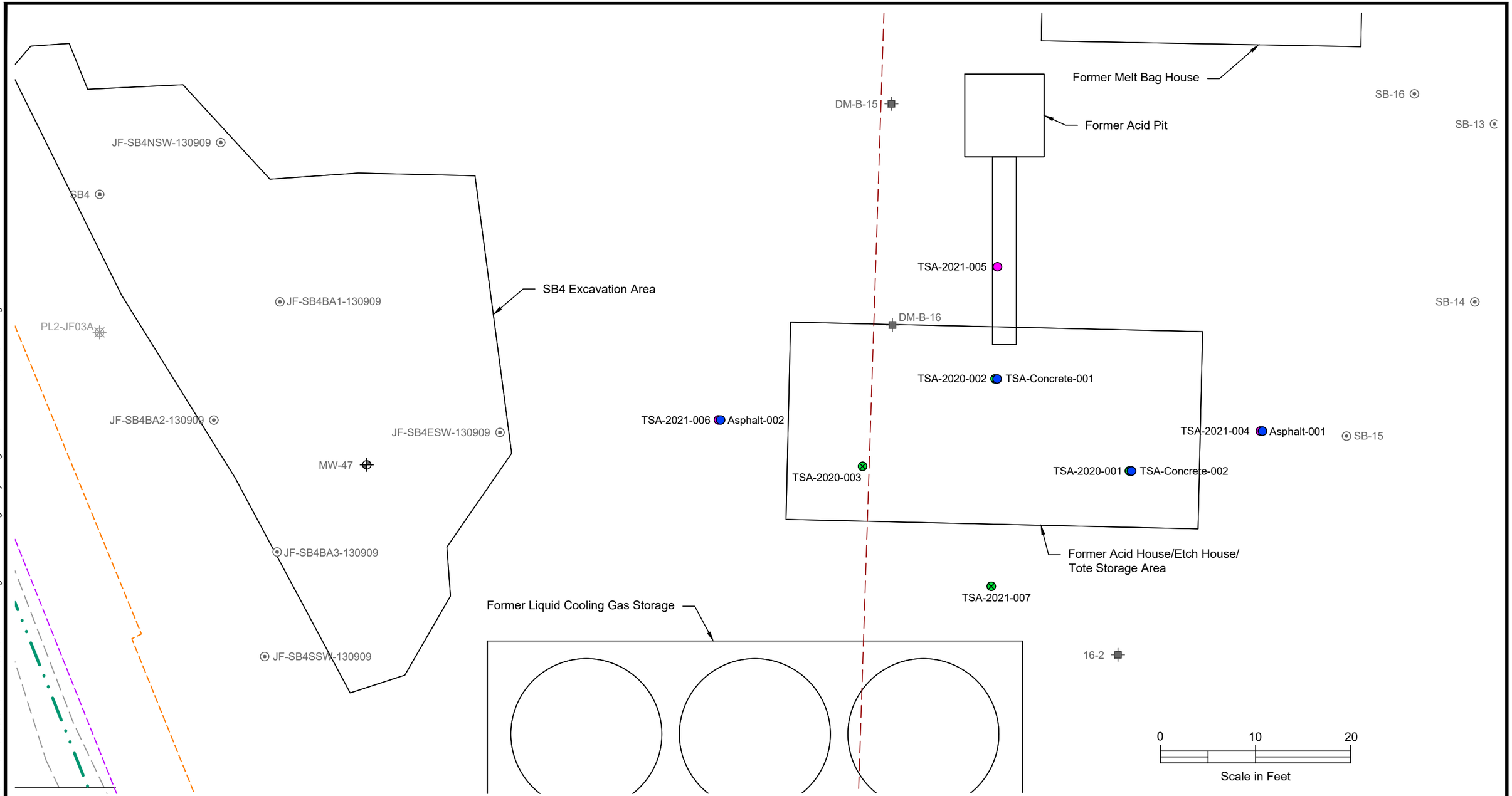
INVESTIGATION LOCATIONS DURING REMEDIAL INVESTIGATION OF 2020-2021

September 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. 16A

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 Investigation Points.dwg Layout: Figure 16A Date: 08-26-2024 Login: JRS



LEGEND

- Former Bethlehem Steel Facility
- SB-14 Soil Boring Location (Previous Sampling)
- 16-2 Soil Boring Location (Previous Sampling)
- MW-23 Monitoring Well Location
- MW-2 Decommissioned
- TSA-2021-005 Soil Boring (2020-2021)
- TSA-2020-002 Hand Auger Sample (2020-2021)
- Asphalt-001 Pavement Chip Samples (2020-2021)
- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)

N

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

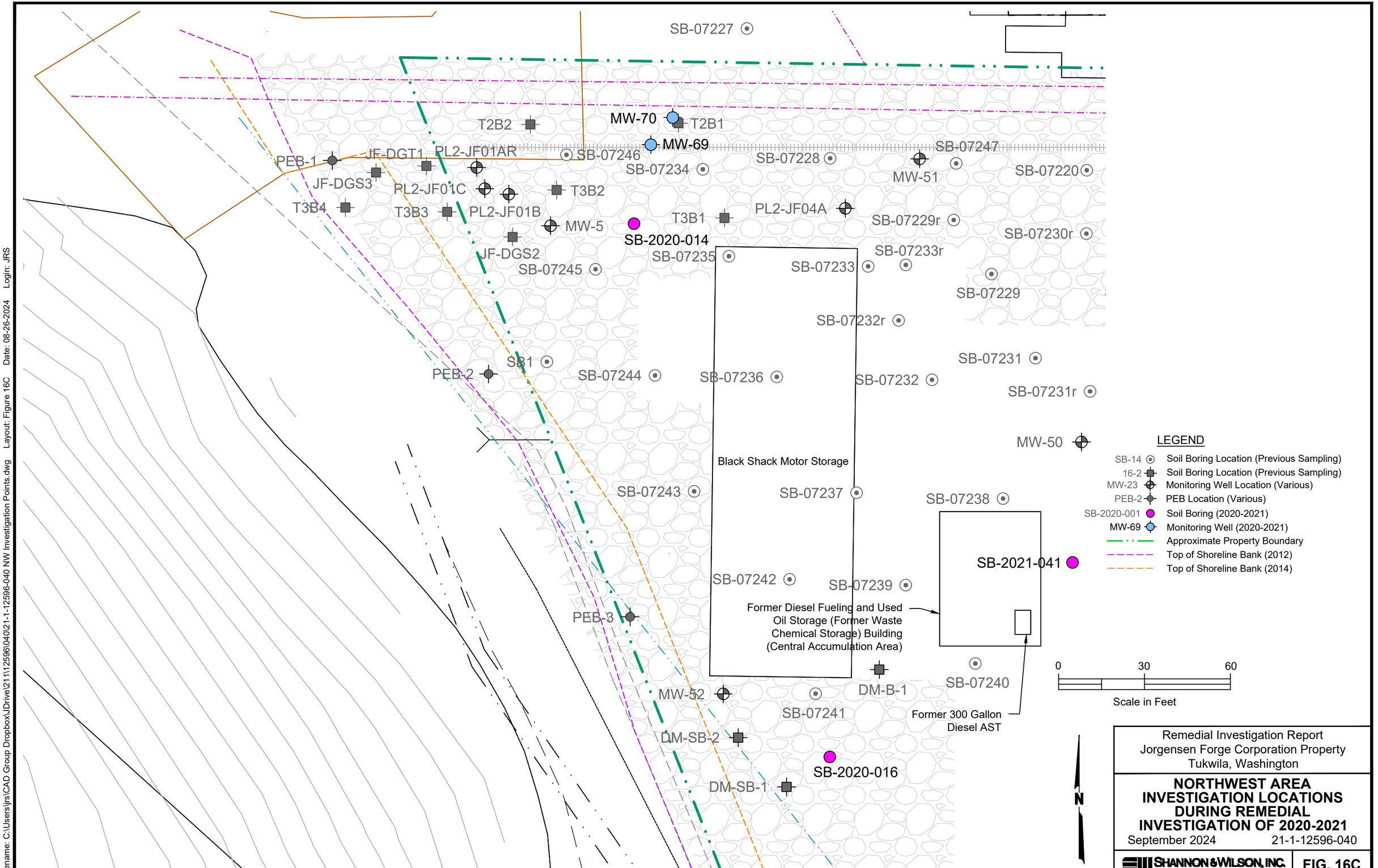
TOTE STORAGE AREA INVESTIGATION LOCATIONS DURING REMEDIAL INVESTIGATION OF 2020-2021

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 16B**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\1\12596\040\21-1-12596-040 TP Investigation Points.dwg Layout: Figure 16B Date: 08-26-2024 Login: JRS



Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

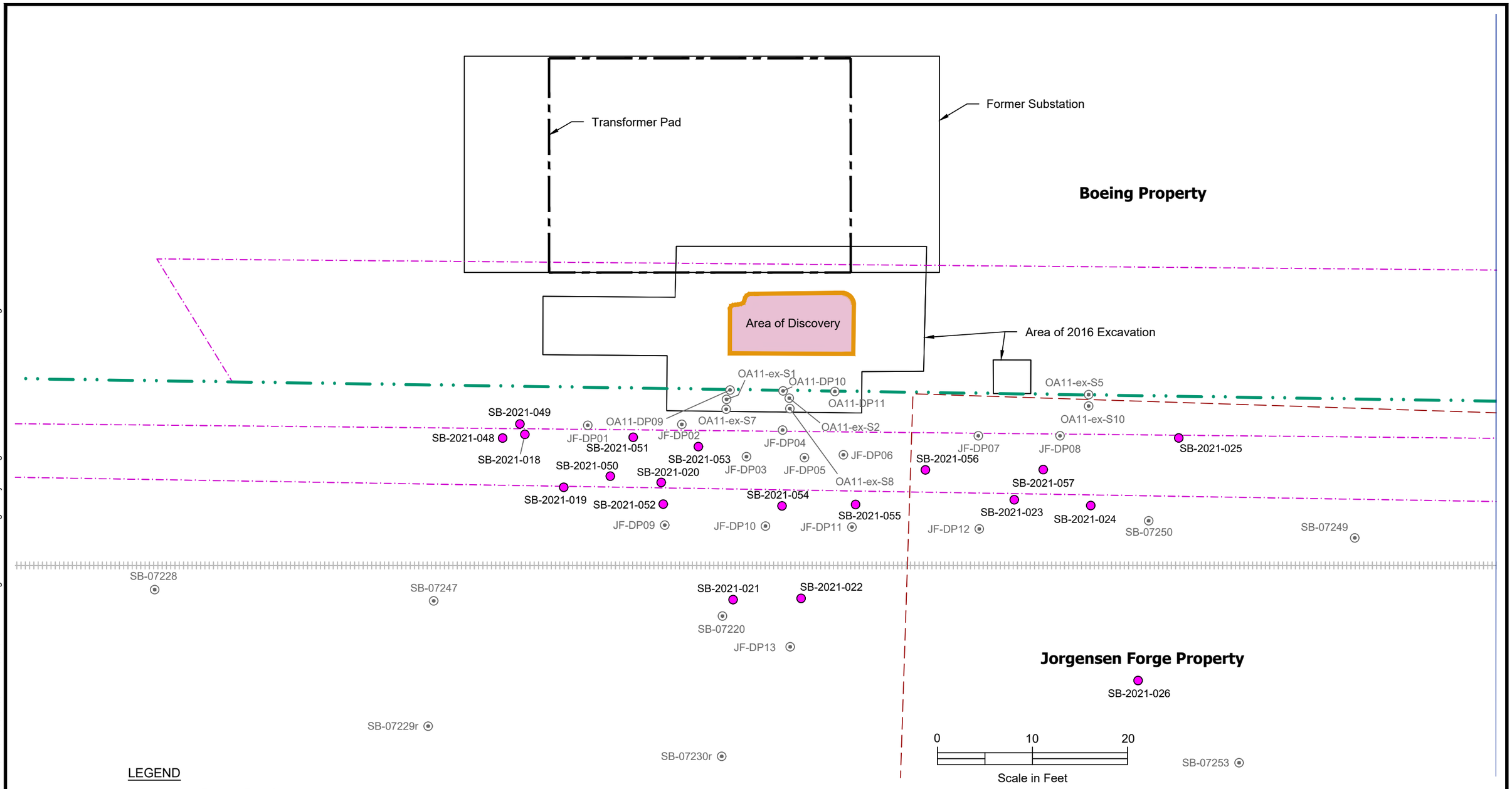
NORTHWEST AREA INVESTIGATION LOCATIONS DURING REMEDIAL INVESTIGATION OF 2020-2021

September 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. 16C

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\1\2596\040\21-1-12596-040 NW Investigation Points.dwg Layout: Figure 16C Date: 08-26-2024 Login: JRS



LEGEND

- Approximate Property Boundary
- Outfall Pipelines
- Former Bethlehem Steel Facility
- Railroad
- JF-DP02 Boeing Sample Location
- SB-2020-018 Soil Boring (2020-2021)

NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg,* prepared by PES Environmental, Inc.dated April 2015, and client figures *Total PCB and Total TPH Analytical Results for Soil*, Figure 3.1, dated February 24, 2004, *Exploration Locations and Storm Pipes Surveyed*, Figure 2.1, dated July 29, 2005, and *Tier 1 and Tier 2 Soil Boring Locations on Jorgensen Forge*, Figure 2, dated July 28, 2017.

N

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

INVESTIGATION LOCATIONS SOUTH OF OA-11 DURING REMEDIAL INVESTIGATION OF 2020-2021

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 16D**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 TP Investigation Points.dwg Layout: Figure 16D Date: 08-28-2024 Login: JRS

TPH-G	<13.6
TPH-D	<33
TPH-O	<56

TPH-G	NA
TPH-D	136
TPH-O	266

TPH-G	NA
TPH-D	<33
TPH-O	<56

TPH-G	NA
TPH-D	<35
TPH-O	<56

TPH-G	NA
TPH-D	<33
TPH-O	<56

TPH-G	NA
TPH-D	276
TPH-O	<56

TPH-G	NA
TPH-D	207
TPH-O	<62

TPH-G	<13.6
TPH-D	3,010
TPH-O	867

TPH-G	NA
TPH-D	1,510
TPH-O	<59

TPH-G	NA
TPH-D	454
TPH-O	301

TPH-G	<13.6
TPH-D	294
TPH-O	364

2.8 Feet; 6.8 Feet; 10.8 Feet; 1.8 Feet; 8.5 Feet; 3.5 Feet; 4.7 Feet; 4.1 Feet; 4.6 Feet; 4.3 Feet; 5.3 Feet

Hollowbore Area; Shipping Area; Machine Shop Area; Heat Treat Area

MW-71; SB-2021-043; SB-2021-042; SB-2021-044; MW-24; MW-49; A1-15; MW-59; A1-08; SB-2021-046; A1-07; A1-14; MW-23; MW-55; A1-04; MW-21; A1-03; MW-28; MW-20; MW-26; MW-27; A1-13; MW-19; MW-29; A1-17; MW-58; A1-11; A1-12; A1-16; MW-48; MW-76; A1-01; MW-17; A1-02; MW-18; A1-06; MW-22R; A1-05; A1-09; MW-16; A1-10; MW-9; MW-56; A1-20; MW-30; A1-21; SB-2020-001; A1-18; MW-57; A1-19; SB-2021-002; SB-2020-028; MW-31; SB-2021-027; MW-75; MW-45; MW-62; SB-2021-003; SB-2021-038; SB-2020-004

0; 50; 100

Scale in Feet

N

Explanation

- Approximate Property Boundary
- Estimated Extent of LNAPL on Water *(See Note 1)*
- Estimated Extent of LNAPL in Soil *(See Note 2)*
- Estimated Extent of Dissolved-Phase TPH Impacts *(See Note 3)*
- MW-23 Monitoring Well Location (Various)
- SB-2020-001 Soil Boring (2020-2021)
- A2-1 Completed LNAPL Delineation Probe Boring

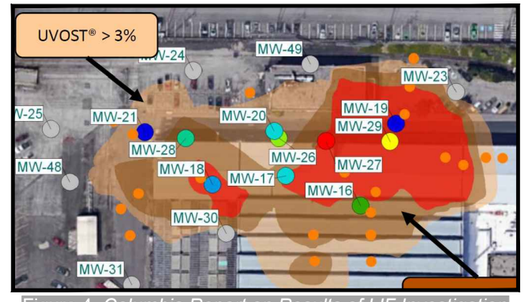


Figure 4, *Columbia Report on Results of LIF Investigation*

Screening Levels	Water (µg/L)
TPH-D	500
TPH-G	1,000
TPH-O	500

NOTES

1. The estimated extent of LNAPL on water is based on measured LNAPL thickness in monitoring wells during 4 quarters of monitoring in 2021. Light red-shaded tables are the thickest measurement (feet) during the 2021 monitoring.
2. The estimated extent of the LNAPL in soil is based on the 2020 LIF investigation extent of UVOST response above 3%, as shown in Figure 4 of the LIF report (See snip above and to the right).
3. The estimated extent of dissolved-phase TPH impacts is based on exceedances of TPH in the gasoline, diesel, and oil ranges during 4 quarters of monitoring in 2021. Only wells screened in the unconfined shallow zone (unit "A") were evaluated. Blue-shaded tables are the highest reported groundwater concentration (ug/L) of TPH during the 2021 monitoring.
4. Figure adapted from client file, 141500101002_1-8.dwg, *prepared by PES Environmental, Inc. dated July 2017, and ACAD-J1743.05 09-01-2020.dwg dated August 12, 2020, prepared by True North.*

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Tukwila, Washington

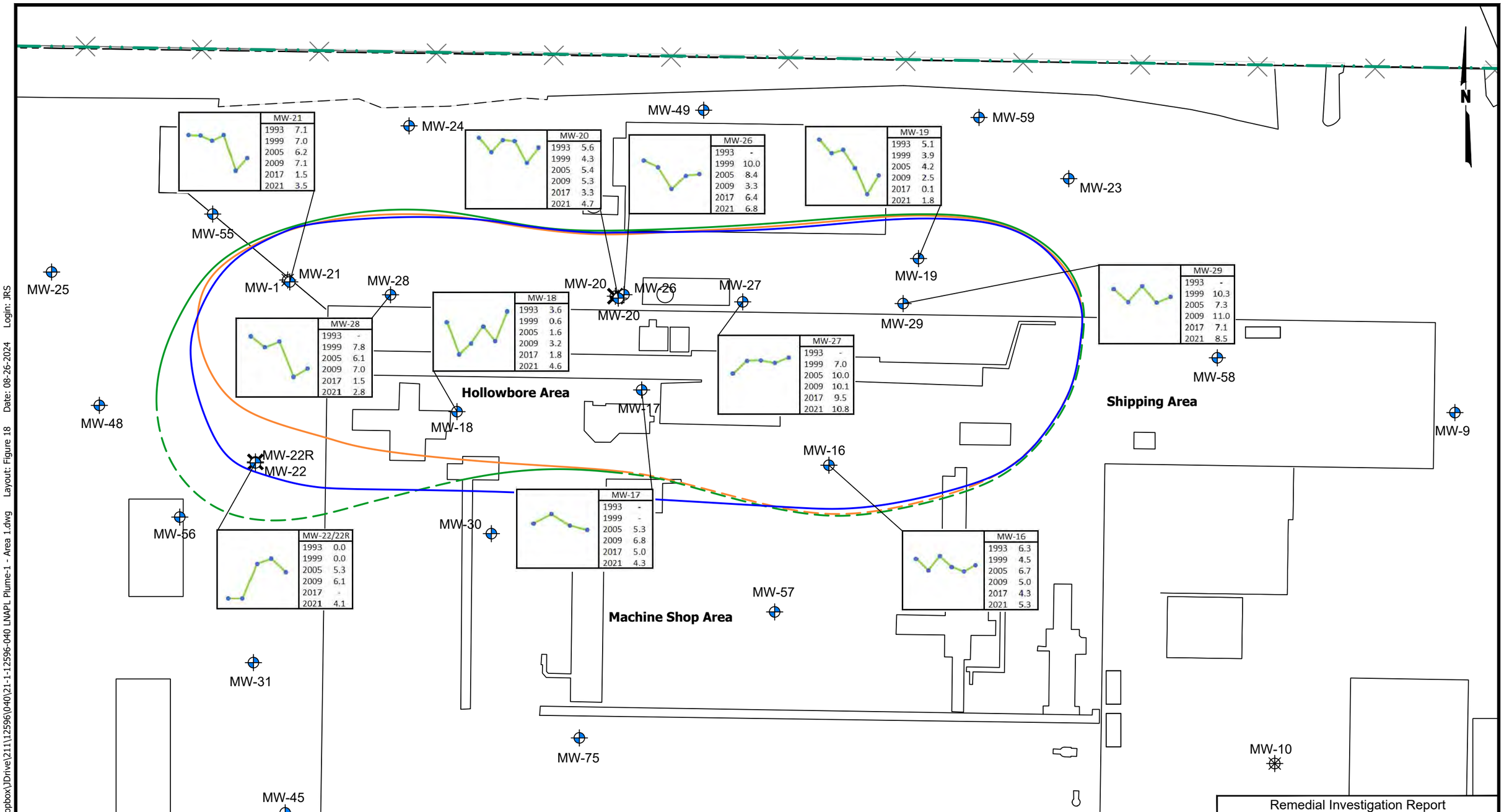
AREA 1 LNAPL PLUME ESTIMATED EXTENT OF IMPACTS

September 2022 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 17**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 LNAPL Plume - Area 1.dwg Layout: Figure 17 Date: 08-08-2024 Login: JRS



Explanation

Estimated Extent of LNAPL on Water

- Approximate Plume Extents - 1993, 1999 (Dashed Where Inferred)
- Approximate Plume Extents - 2005, 2009, 2017 (Dashed Where Inferred)
- Approximate Plume Extents - 2021
- Approximate Property Boundary
- MW-23 Monitoring Well Location (Various)
- MW-2 Decommissioned
- MW-22 Location Unknown

Maximum LNAPL thickness (in feet) recorded during the indicated year.

0 40 80

Scale in Feet

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

AREA 1
LNAPL PLUME EXTENTS

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 18**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 LNAPL Plume-1 - Area 1.dwg Layout: Figure 18 Date: 08-26-2024 Login: JRS

TPH-G	NA
TPH-D	<33
TPH-O	<56

TPH-G	NA
TPH-D	<33
TPH-O	<56

TPH-G	<13.6
TPH-D	1,070
TPH-O	312

(See Note 4)

TPH-G	<13.6
TPH-D	790
TPH-O	538

TPH-G	<13.6
TPH-D	<35
TPH-O	<60

TPH-G	NA
TPH-D	550
TPH-O	326

TPH-G	167
TPH-D	2,310
TPH-O	1,130

TPH-G	752
TPH-D	14,300E
TPH-O	2,630

TPH-G	<13.6
TPH-D	<34
TPH-O	<57

TPH-G	170
TPH-D	1,760
TPH-O	565

TPH-G	NA
TPH-D	<35
TPH-O	<59

TPH-G	216
TPH-D	2,920
TPH-O	1,040

TPH-G	<13.6
TPH-D	384 JH*
TPH-O	<59

TPH-G	<13.6
TPH-D	21,700E
TPH-O	2,890D

TPH-G	<13.6
TPH-D	<35
TPH-O	<59

TPH-G	<13.6
TPH-D	1,460
TPH-O	284

SB-2021-027, MW-75, SB-2020-029, SB-2020-045, MW-10R, MW-62, SB-2021-003, SB-2021-038, Heat Treat Area, SB-2020-004, MW-40, MW-41, MW-63, MW-64, SB-2021-006, MW-60, MW-74, MW-61, MW-35, MW-36, MW-37, MW-34, MW-32, MW-11, MW-14, MW-15, MW-13R, MW-73, MW-72, A2-01, A2-02, A2-03, A2-04, A2-05, A2-06, A2-07, A2-08, A2-09, A2-10, A2-11, A2-12, A2-13, A2-14, A2-15, A2-16, A2-17, A2-18, 1.1 Feet, 8.7 Feet, Decommissioned Oil Storage Area, Decommissioned Diesel Storage Area, Forge Shop, Isaacson Property, N, 0, 50, 100, Scale in Feet

Explanation

- Approximate Property Boundary
- Estimated Extent of LNAPL on Water *(See Note 1)*
- Estimated Extent of LNAPL in Soil *(See Note 2)*
- Estimated Extent of Dissolved-Phase TPH Impacts *(See Note 3)*
- Estimated Extent of TPH Above Residual Saturation Levels at UST Excavation *(See Note 4)*
- MW-23 Monitoring Well Location (Various)
- SB-2020-001 Soil Boring (2020-2021)
- A2-1 Completed LNAPL Delineation Probe Boring

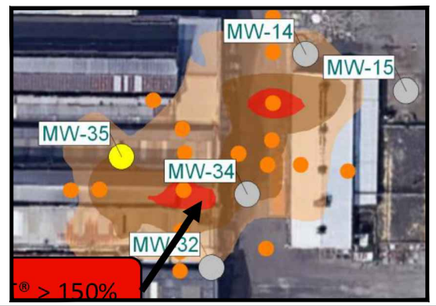


Figure 4, *Columbia Report on Results of LIF Investigation*

Screening Levels	Water (µg/L)
TPH-D	500
TPH-G	1,000
TPH-O	500

NOTES

1. The estimated extent of LNAPL on water is based on measured LNAPL thickness in monitoring wells during 4 quarters of monitoring in 2021. Light red-shaded tables are the thickest measurement (feet) during the 2021 monitoring.
2. The estimated extent of the LNAPL in soil is based on the 2020 LIF investigation extent of UVOST response above 3%, as shown in Figure 4 of the LIF report (See snip above and to the right).
3. The estimated extent of dissolved-phase TPH impacts is based on exceedances of TPH in the gasoline, diesel, and oil ranges during 4 quarters of monitoring in 2021. Only wells screened in the unconfined shallow zone (unit "A") were evaluated. Blue-shaded tables are the highest reported groundwater concentration (ug/L) of TPH during the 2021 monitoring.
4. The estimated extent of TPH impacts at concentrations above residual saturation levels based on confirmation samples collected during UST removal activities completed in 2023.
5. Figure adapted from client file, 141500101002_1-8.dwg, *prepared by PES Environmental, Inc. dated July 2017, and ACAD-J1743.05 09-01-2020.dwg dated August 12, 2020, prepared by True North.*

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

AREA 2 AND AREA 4 LNAPL PLUME ESTIMATED EXTENT OF IMPACTS

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 19**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 LNAPL Plume - Area 2.dwg Layout: Figure 19 Date: 08-28-2024 Login: JRS

Heat Treat Area

Forge Shop Area

MW-62
MW-14
MW-2
MW-13
MW-13R
MW-15
MW-41
MW-40
MW-61
MW-35
MW-12
MW-73
MW-33
MW-34
MW-72
MW-60
MW-36
MW-32
MW-74
MW-37
MW-7

MW-2	
1993	0.3
1999	1.5
2005	-
2009	-
2017	-
2021	-

MW-13/13R	
1993	0.8
1999	2.6
2005	2.1
2009	-
2017	-
2021	1.1

MW-12	
1993	0.0
1999	2.2
2005	1.2
2009	0.0
2017	-
2021	-

MW-35	
1993	-
1999	8.2
2005	-
2009	7.1
2017	6.8
2021	8.7

MW-34	
1993	-
1999	0.0
2005	0.0
2009	1.4
2017	0.0
2021	0.0

MW-33	
1993	-
1999	0.4
2005	1.6
2009	-
2017	-
2021	-

N

Explanation

Estimated Extent of LNAPL on Water

- Approximate Plume Extents - 1993 (Dashed Where Inferred)
- Approximate Plume Extents - 1999, 2005 (Dashed Where Inferred)
- Approximate Plume Extents - 2009 (Dashed Where Inferred)
- Approximate Plume Extents - 2017 (Dashed Where Inferred)
- Approximate Plume Extents - 2021 (Dashed Where Inferred)

Maximum LNAPL thickness (in feet) recorded during the indicated year.

- Approximate Property Boundary
- MW-23 Monitoring Well Location (Various)
- MW-2 Decommissioned

0 40 80

Scale in Feet

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

AREA 2
LNAPL PLUME EXTENTS

September 2024 21-1-12596-030

SHANNON & WILSON, INC. FIG. 20

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 LNAPL Plume-1 - Area 2.dwg Layout: Figure 20 Date: 08-08-2024 Login: JRS

Boeing Plant 2 Facility

Approximate Area of JFOS Removal Action

PL2-JF01B

PL2-JF01AR

PL2-JF04A

2-66 Area

6-Inch Diameter Lateral

12-Inch Diameter Lateral

12-Inch Diameter Property Line Pipe

15-Inch Diameter Lateral

South Yard Area

15-Inch Diameter Lateral

Office Building Lateral

24-Inch Diameter Property Line Pipe

4-Inch Diameter Lateral

N

MW-51

MW-70

MW-69

PL2-JF01C

MW-5

MW-71

MW-24

MW-49

MW-59

MW-23

MW-55

MW-66

MW-50

Used Oil Storage Building

Bethlehem Steel 12-Inch Diameter Lateral

MW-25

MW-21

MW-20

MW-26

MW-19

MW-28

MW-27

MW-29

MW-58

MW-52

PL2-JF02A

MW-48

MW-18

MW-17

Hollowbore Area

Shipping Area

MW-9

MW-22R

MW-16

MW-76

MW-56

MW-30

Area 1 LNAPL Plume

Machine Shop Area

MW-4

MW-65

MW-31

MW-57

MW-8

MW-3

MW-53

MW-75

MW-45

MW-10R

MW-47

MW-46

MW-62

MW-11

PL2-JF03A

Heat Treat Area

5,000-Ton Press and Pump Room

MW-79

2,500-Ton Press Pump Room

Q1/Q2/Q3 Vaults

1,250-Ton Press Pump Room

MW-14

MW-15

MW-54

MW-6

MW-78

MW-13R

MW-44

MW-43

MW-42

Former Melt Shop Area

MW-40

MW-41

MW-61

MW-73

MW-72

MW-63

MW-64

MW-35

MW-34

MW-60

SB-2022-001

Area 2 LNAPL Plume

MW-39

Forge Shop Area

SB-2022-002

MW-32

MW-36

660-Ton Press Pump Room

Former Metals Storage Area

SB-2022-003

MW-74

MW-68

MW-67

MW-38

MW-77

MW-37

MW-7

WATERWAY

-5

-10

-15

0

100

200

Scale in Feet

Boeing/Isaacson Property

Explanation

- Approximate Property Boundary
- Estimated Extent of LNAPL-Saturated Soil (Shannon & Wilson, June 30, 2022)
- MW-23 Monitoring Well Location (Various)
- Features Where AFFF Fire Suppression Components Have Been Observed or AFFF Has Been Stored
- Locations with Groundwater Analyzed for PFAS and Detections Below Screening Levels
- Locations with Soil Analyzed for PFAS and Detections Below Screening Levels
- Locations with Groundwater Analyzed for PFAS and PFOS Detected Above the Screening Level
- Locations with Soil Analyzed for PFAS and Either PFOS and/or PFOA Detected Above the Screening Level

NOTE

Except where surveyed, locations are approximate.

Remedial Investigation Report
Jorgensen Forge Corporation Property
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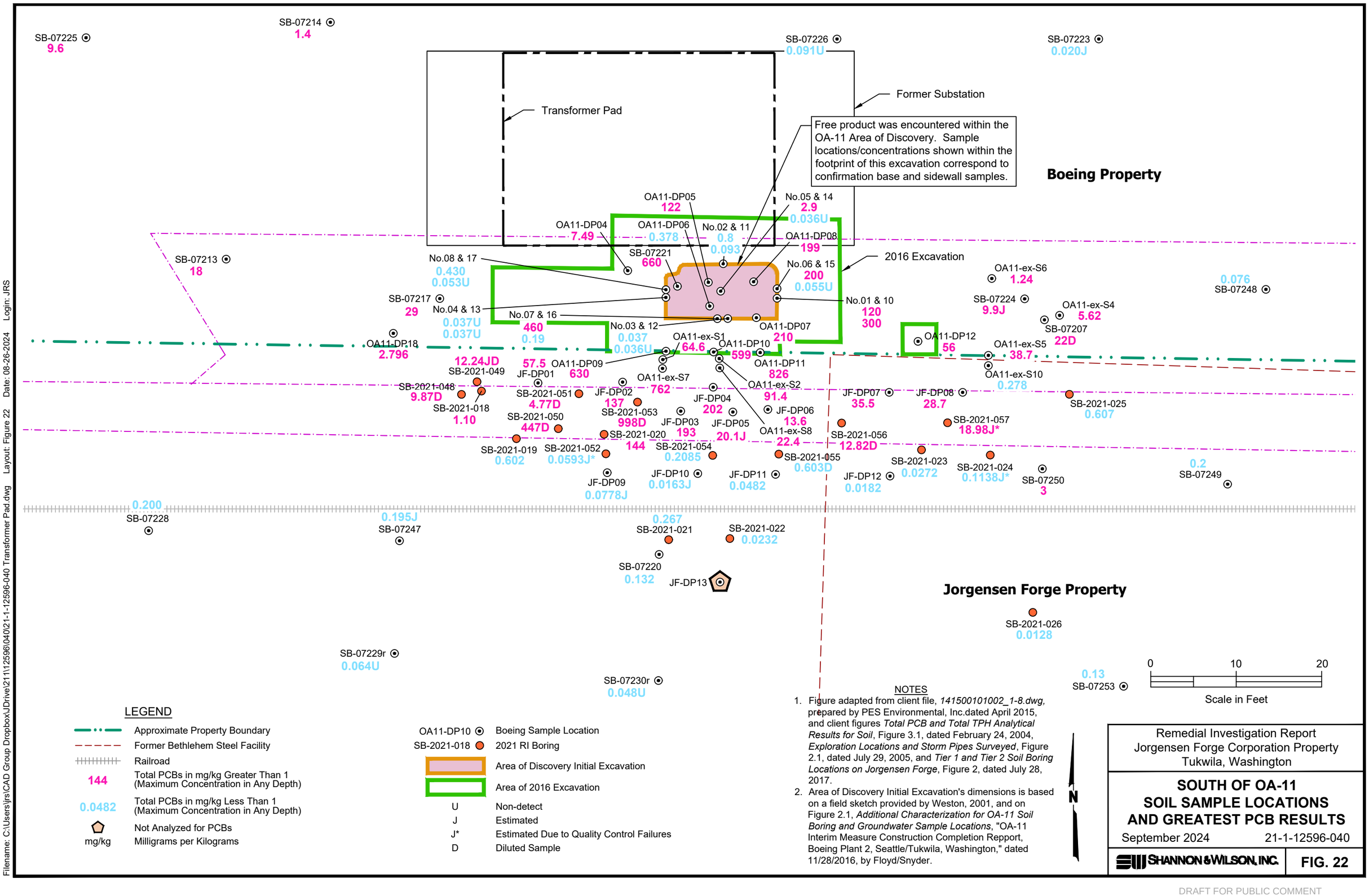
PFAS SOIL AND GROUNDWATER SAMPLING LOCATIONS

September 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. 21

DRAFT FOR PUBLIC COMMENT

Figure 21 Date: 08-28-2024 Login: JRS Layout: Figure 21 Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 PFAS Investigations.dwg



LEGEND

- Approximate Property Boundary
- Former Bethlehem Steel Facility
- Railroad
- 144 — Total PCBs in mg/kg Greater Than 1 (Maximum Concentration in Any Depth)
- 0.0482 — Total PCBs in mg/kg Less Than 1 (Maximum Concentration in Any Depth)
- Not Analyzed for PCBs
- mg/kg — Milligrams per Kilograms

- OA11-DP10 — Boeing Sample Location
- SB-2021-018 — 2021 RI Boring
- Area of Discovery Initial Excavation
- Area of 2016 Excavation
- U — Non-detect
- J — Estimated
- J* — Estimated Due to Quality Control Failures
- D — Diluted Sample

NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc.dated April 2015, and client figures *Total PCB and Total TPH Analytical Results for Soil*, Figure 3.1, dated February 24, 2004, *Exploration Locations and Storm Pipes Surveyed*, Figure 2.1, dated July 29, 2005, and *Tier 1 and Tier 2 Soil Boring Locations on Jorgensen Forge*, Figure 2, dated July 28, 2017.
2. Area of Discovery Initial Excavation's dimensions is based on a field sketch provided by Weston, 2001, and on Figure 2.1, *Additional Characterization for OA-11 Soil Boring and Groundwater Sample Locations*, "OA-11 Interim Measure Construction Completion Repport, Boeing Plant 2, Seattle/Tukwila, Washington," dated 11/28/2016, by Floyd/Snyder.

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SOUTH OF OA-11
SOIL SAMPLE LOCATIONS
AND GREATEST PCB RESULTS

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 22**

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 Transformer Pad.dwg Layout: Figure 22 Date: 08-26-2024 Login: JRS

DRAFT FOR PUBLIC COMMENT

Transformer Pad

Former Substation

Boeing Property

H

H'

I

I'

Sample 07

OA11-DP09

OA11-DP10

OA11-ex-S1

OA11-DP11

OA11-ex-S2

OA11-ex-S7

OA11-ex-S5

OA11-ex-S10

SB-2021-049

JF-DP01

JF-DP02

JF-DP04

OA11-ex-S8

JF-DP06

JF-DP07

JF-DP08

SB-2021-025

SB-2021-048

SB-2021-018

SB-2021-051

SB-2021-053

JF-DP03

JF-DP05

SB-2021-056

SB-2021-050

SB-2021-020

SB-2021-057

SB-2021-019

SB-2021-052

SB-2021-054

SB-2021-055

SB-2021-023

SB-2021-024

JF-DP09

JF-DP10

JF-DP11

JF-DP12

SB-07250

SB-07249

SB-07228

SB-07247

SB-2021-021

SB-2021-022

SB-07220

JF-DP13

Jorgensen Forge Property

SB-2021-026

SB-07229r

SB-07230r

SB-07253

0 10 20

Scale in Feet

LEGEND

- Approximate Property Boundary
- Outfall Pipelines
- Former Bethlehem Steel Facility
- Railroad
- OA11-DP10 — Boeing Sample Location
- SB-2021-018 — 2021 RI Boring

LEGEND

- A — Generalized Subsurface Profile
- Area of Discovery Initial Excavation
- 2016 Excavation to 8 Feet

NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc.dated April 2015, and client figures *Total PCB and Total TPH Analytical Results for Soil*, Figure 3.1, dated February 24, 2004, *Exploration Locations and Storm Pipes Surveyed*, Figure 2.1, dated July 29, 2005, and *Tier 1 and Tier 2 Soil Boring Locations on Jorgensen Forge*, Figure 2, dated July 28, 2017.
2. Area of Discovery Initial Excavation's dimensions is based on a field sketch provided by Weston, 2001, and on Figure 2.1, *Additional Characterization for OA-11 Soil Boring and Groundwater Sample Locations*, "OA-11 Interim Measure Construction Completion Repport, Boeing Plant 2, Seattle/Tukwila, Washington," dated 11/28/2016, by Floyd/Snyder.

N

Remedial Investigation Report
Jorgensen Forge Corporation Property
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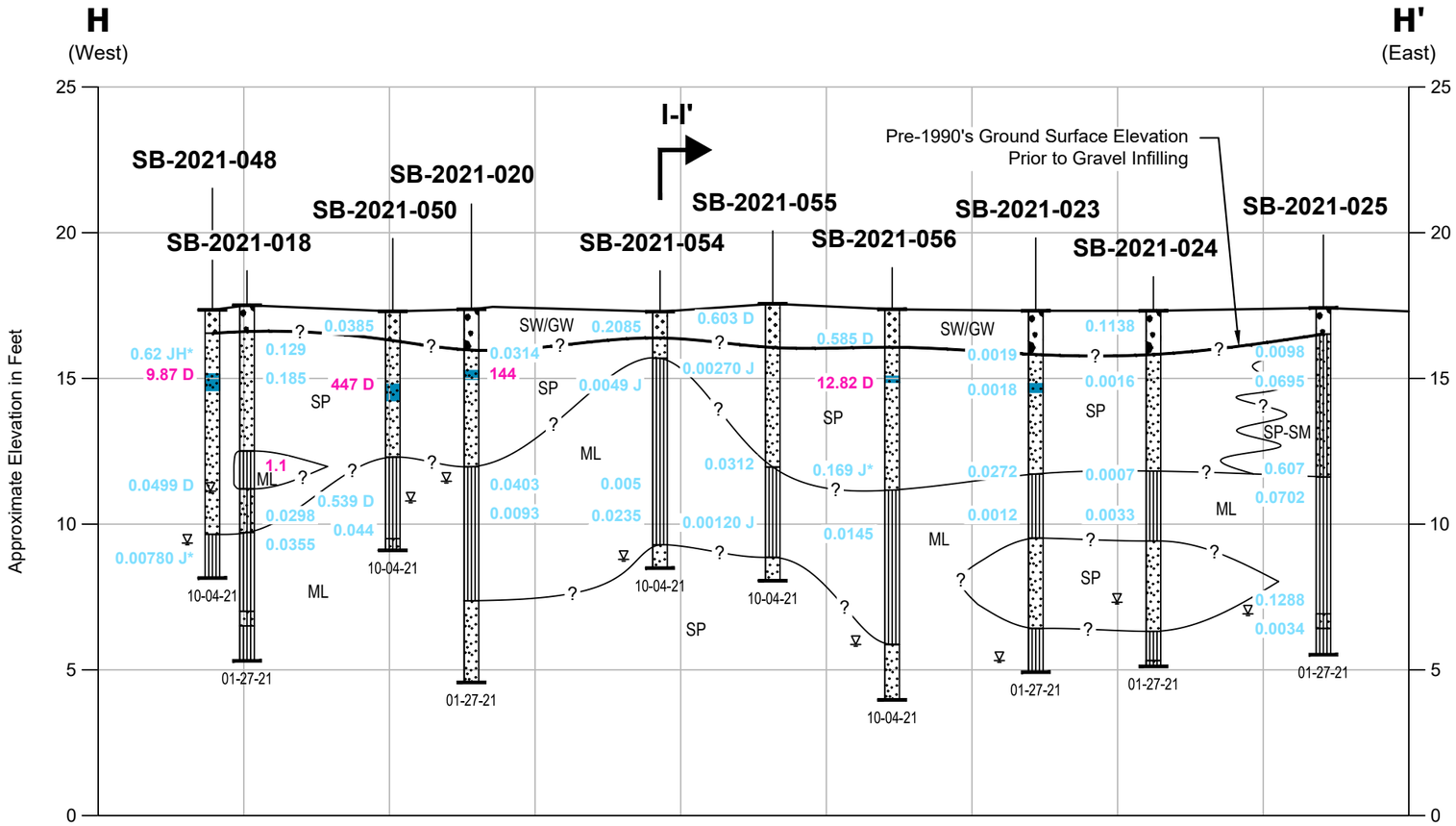
SOUTH OF OA-11 SUBSURFACE PROFILE LOCATION MAP

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 23**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\040\21-1-12596-040 OA-11 Plan and Profiles.dwg Layout: Figure 23-Plan Date: 08-08-2024 Login: JRS



0 10 20

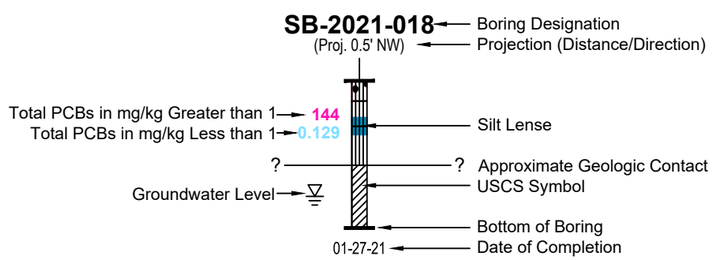
Scale in Horizontal Feet

0 5 0

Scale in Vertical Feet

Vertical Exaggeration = 2x

LEGEND



LEGEND

0.571	Total PCB Detected Concentrations Exceeds Regulatory Limit (mg/kg)
JH*	Estimated Concentration, Based High Due to Quality Control Failures. Flag Applied by Shannon & Wilson, Inc.
J*	Estimated Concentration Due to Quality Control Failures. Flag Applied by Shannon & Wilson, Inc.
D	Reported Result Analyzed at a Dilution. Flag Applied by the Laboratory.
J	Estimated Concentration, Detected Greater than the Detection Limit (DL) and Less Than the Limit of Quantitation (LOQ). Flag Applied by the Laboratory.

LEGEND

SW/GW	Well-Graded Sand; Well-Graded Sand with Gravel; Well-Graded Gravel
SP	Poorly Graded Sand; Poorly-Graded Sand with Gravel
SP-SM	Poorly Graded Sand to Silty Sand
SM	Silty Sand; Silty Sand with Gravel
ML	Silt; Silt with Sand or Gravel; Sandy or Gravelly Silt

Remedial Investigation Report
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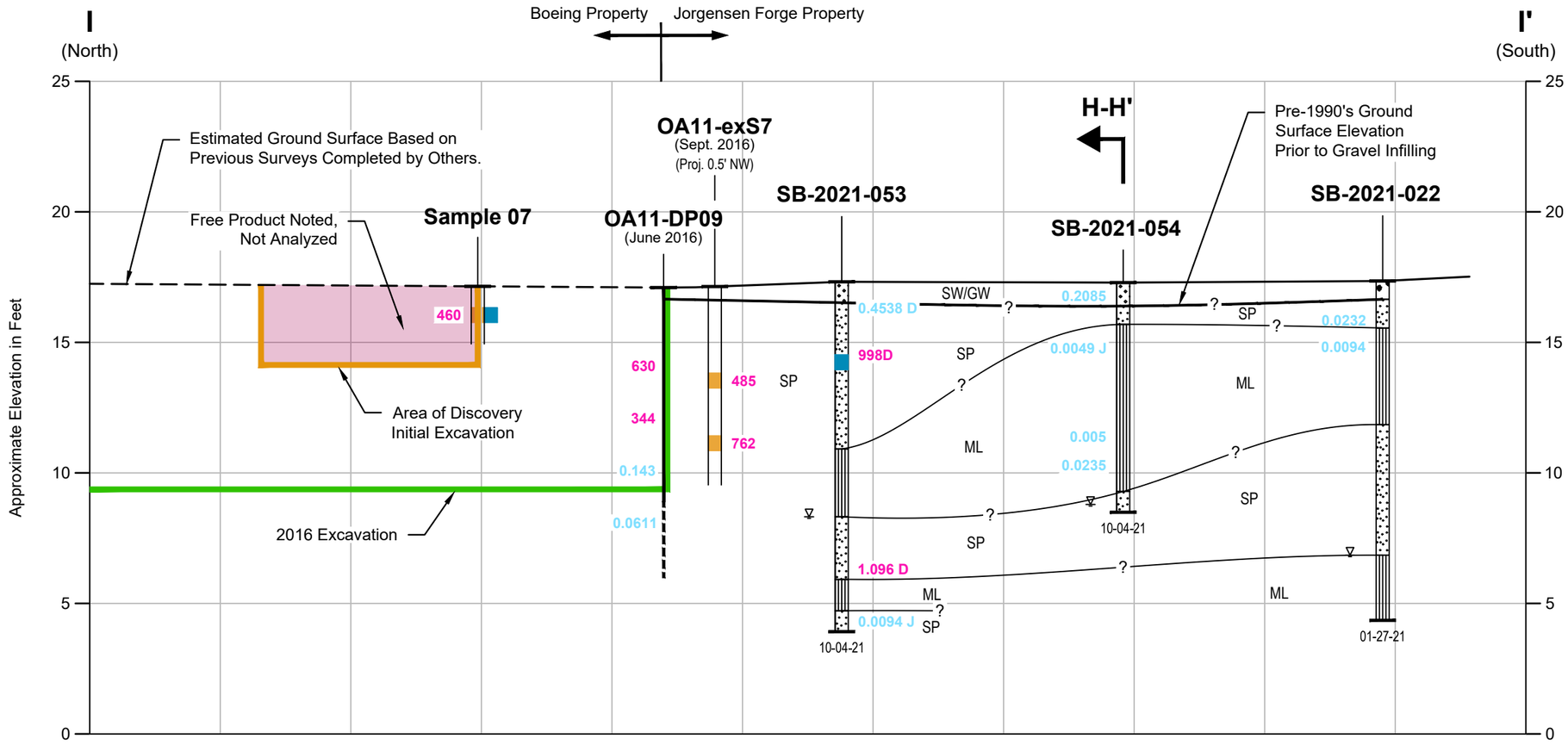
SOUTH OF OA-11 GENERALIZED SUBSURFACE PROFILE H-H'

September 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. 24

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 OA-11 Plan and Profiles.dwg Layout: Figure 24-Profile A Date: 08-08-2024 Login: JRS

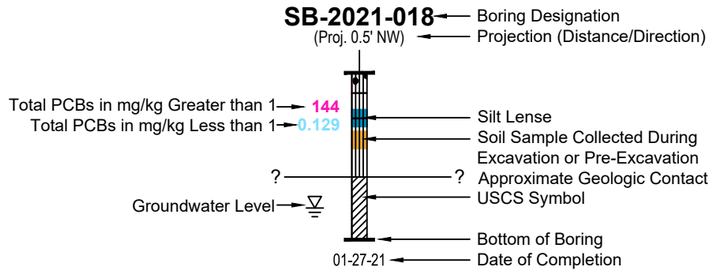


0 5 0

Scale in Feet

Horizontal = Vertical

LEGEND



LEGEND

0.571	Total PCB Detected Concentrations Exceeds Regulatory Limit (mg/kg)
JH*	Estimated Concentration, Based High Due to Quality Control Failures. Flag Applied by Shannon & Wilson, Inc.
J*	Estimated Concentration Due to Quality Control Failures. Flag Applied by Shannon & Wilson, Inc.
D	Reported Result Analyzed at a Dilution. Flag Applied by the Laboratory.
J	Estimated Concentration, Detected Greater than the Detection Limit (DL) and Less Than the Limit of Quantitation (LOQ). Flag Applied by the Laboratory.

LEGEND

SW/GW	Well-Graded Sand; Well-Graded Sand with Gravel; Well-Graded Gravel
SP	Poorly Graded Sand; Poorly-Graded Sand with Gravel
SP-SM	Poorly Graded Sand to Silty Sand
SM	Silty Sand; Silty Sand with Gravel
ML	Silt; Silt with Sand or Gravel; Sandy or Gravelly Silt

NOTE

Excavation extents were estimated using data provided by others and should be considered approximate.

Remedial Investigation Report
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SOUTH OF OA-11 GENERALIZED SUBSURFACE PROFILE I-I'

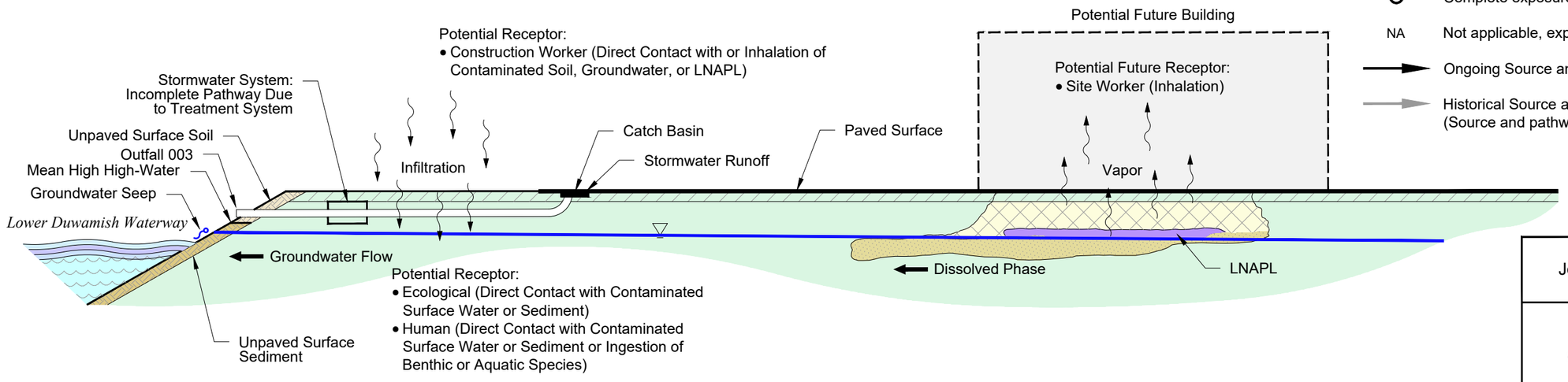
September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. 25**

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 OA-11 Plan and Profiles.dwg Layout: Figure 25-Profile B Date: 08-26-2024 Login: JRS

Primary Source	Primary Transport Mechanism	Secondary Source	Secondary Transport Mechanism	Exposure Medium	Exposure Pathway	Receptors: Human: On Property	Receptors: Human: Off Property	Receptors: Ecological: Benthic	Receptors: Ecological: Aquatic
Historic Oil Storage Areas and Oil-Water Separators	Leaks, Spills, and Overflows	LNAPL		LNAPL	Direct Contact	O	NA	NA	NA
Off-Site Sources	Groundwater Flow	Contaminated Groundwater	Dissolution	Vapor	Inhalation	O	NA	NA	NA
Historic Chemical Storage and Use Areas Historic Maintenance	Leaks and Spills	Contaminated Soil	Groundwater Flow	Groundwater	Direct Contact	O	O	O	O
Historic Production Historic Metals Storage Buildings	Stormwater Infiltration		Leaching	Soil	Direct Contact	O	NA	NA	NA
			Infiltration		Inhalation	O	NA	NA	NA
	Stormwater Runoff	Contaminated Stormwater	Stormwater Runoff	Surface Water	Direct Contact	O	O	O	O
	Leaching and Groundwater Flow		Stormwater Treatment System		Ingestion of Benthic/Aquatic Species	NA	O	O	O
				Sediment	Direct Contact	NA	O	O	O



LEGEND

- O — Complete exposure pathway
- NA — Not applicable, exposure pathway is not available to receptor
- Ongoing Source and Pathway
- Historical Source and Pathway (Source and pathways are no longer present at the Site.)

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PRELIMINARY CONCEPTUAL SITE MODEL

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SHANNON & WILSON, INC. FIG. 26

DRAFT FOR PUBLIC COMMENT

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 Conceptual Site Model.dwg Layout: Figure 26 Date: 08-27-2024 Login: JRS

Boeing Plant 2 Facility

South Yard Area

Approximate Area of JFOS Removal Action

Collective Discharge

12-Inch Diameter Property Line Pipe

15-Inch Diameter Lateral

6-Inch Diameter Lateral

Office Building Lateral

24-Inch Diameter Property Line Pipe

4-Inch Diameter Lateral

SOUTH OF BOEING OA-11
IHSs: PCBs, TPH-D, and TPH-O in soil.

NORTHWEST CORNER
IHSs: TPH-G, TPH-D, and TPH-O in soil. TPH-D in groundwater.
Other COPCs: Benzene in soil and groundwater. Zinc in soil. TCE in groundwater at MW-70 and 1,4-dichlorobenzene in groundwater at MW-69. Chromium, selenium, vanadium, and zinc in soil due to TEE.

SHORELINE AND EMBAYMENT
IHSs: Isolated locations with PCBs in soil and groundwater.
Other COPCs[1]: Isolated locations with cPAHs, arsenic, lead, nickel, and manganese in soil and/or groundwater. Chromium, selenium, and vanadium in unpaved soil areas due to TEE.

STEAM CLEAN AREA
IHSs: TPH-D and TPH-O in groundwater.
COPCs: Naphthalene and cPAHs in soil and groundwater.

STORAGE AREA
IHSs: TPH-D, TPH-O, and PCBs in soil and groundwater.
Other COPCs: Copper, lead, and nickel in soil. Arsenic, copper, and manganese in groundwater.

AREA 1 CUTTING OIL CONTAMINATION
Cutting oil in soil, groundwater, and as an LNAPL plume on groundwater.
IHSs: TPH-D and TPH-O in soil and groundwater.
Other COPCs: Acenaphthene and arsenic in groundwater.

SHIPPING AREA
IHSs: TPH-G in soil and groundwater.
Other COPCs: Benzene, ethylbenzene, and naphthalene in soil and groundwater. Arsenic in groundwater.

AREA 3 FORMER GASOLINE USTs
IHSs: TPH-G in soil and groundwater.
Other COPCs: Arsenic in groundwater.

AREA 4 DECOMMISSIONED OIL STORAGE AREA
IHSs: TPH-D and TPH-O in soil and groundwater. TPH-G in soil.
Other COPCs: cPAHs in soil and groundwater.

AREA 2 HYDRAULIC OIL AND DIESEL CONTAMINATION
Hydraulic oil and diesel in soil, groundwater, and as a commingled plume on groundwater.
IHSs: TPH-D and TPH-O in soil and groundwater. TPH-G in soil.
Other COPCs: cPAHs in soil and groundwater. Acenaphthene, arsenic, copper, manganese, and nickel in groundwater. Copper and lead in soil.

PFAS RELEASE AREA
IHSs: PFOS in soil and groundwater.
Other COPCs: PFOA in soil.

Former Melt Shop Area

Heat Treat Area

Hollowbore Area

Shipping Area

Machine Shop Area

Shop Area Area 2 LNAPL Plume

Asphalt-003

Asphalt-004

Asphalt-005

Stain-001

Stain-002

NOTES

1. Isolated impacts in Shoreline and Embayment area include:
   - PCBs in soil at SB2, SB4, JF-SB4NSW-9 (north sidewall of SB4 excavation), and at MW 54. PCBs in groundwater at MW-39.
   - cPAHs in soil in the vicinity of the SB4 excavation.
   - Arsenic in groundwater at MW-6.
   - Lead in soil at SB2, SB4, JF-SB4NSW-9 (north sidewall of SB4 excavation), SB5, and MW-39.
   - Nickel in soil at SB3 and SB6. Nickel and manganese in groundwater at MW-65.
2. Except where surveyed, locations are approximate.

0 100 200

Scale in Feet

Explanation

- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Bethlehem Steel Facility
- Former Embayment
- Estimated Extent of LNAPL on Groundwater (August 2009)
- Steam Tunnel
- Railroad
- Bulkhead Area
- 3 Outfall (Active)
- 9 Outfall (Inactive)
- SB-19 Soil Boring Location (Various)
- MW-23 Monitoring Well Location (Various)
- P-7 Probe Boring (Various)
- MW-2 Decommissioned
- MW-22 Location Unknown
- T Transformer
- MW-22 Location Unknown
- FB-1 FB Location (Various)
- SB-2020-001 Soil Boring (2020-2021)
- MW-69 Monitoring Well (2020-2021)
- A2-1 Completed LNAPL Delineation Probe Boring
- HA-2020-004 Hand Auger Sample (2020-2021)
- Asphalt-005 Asphalt Chip Samples (2020-2021)
- Unpaved Surface

Remedial Investigation Report
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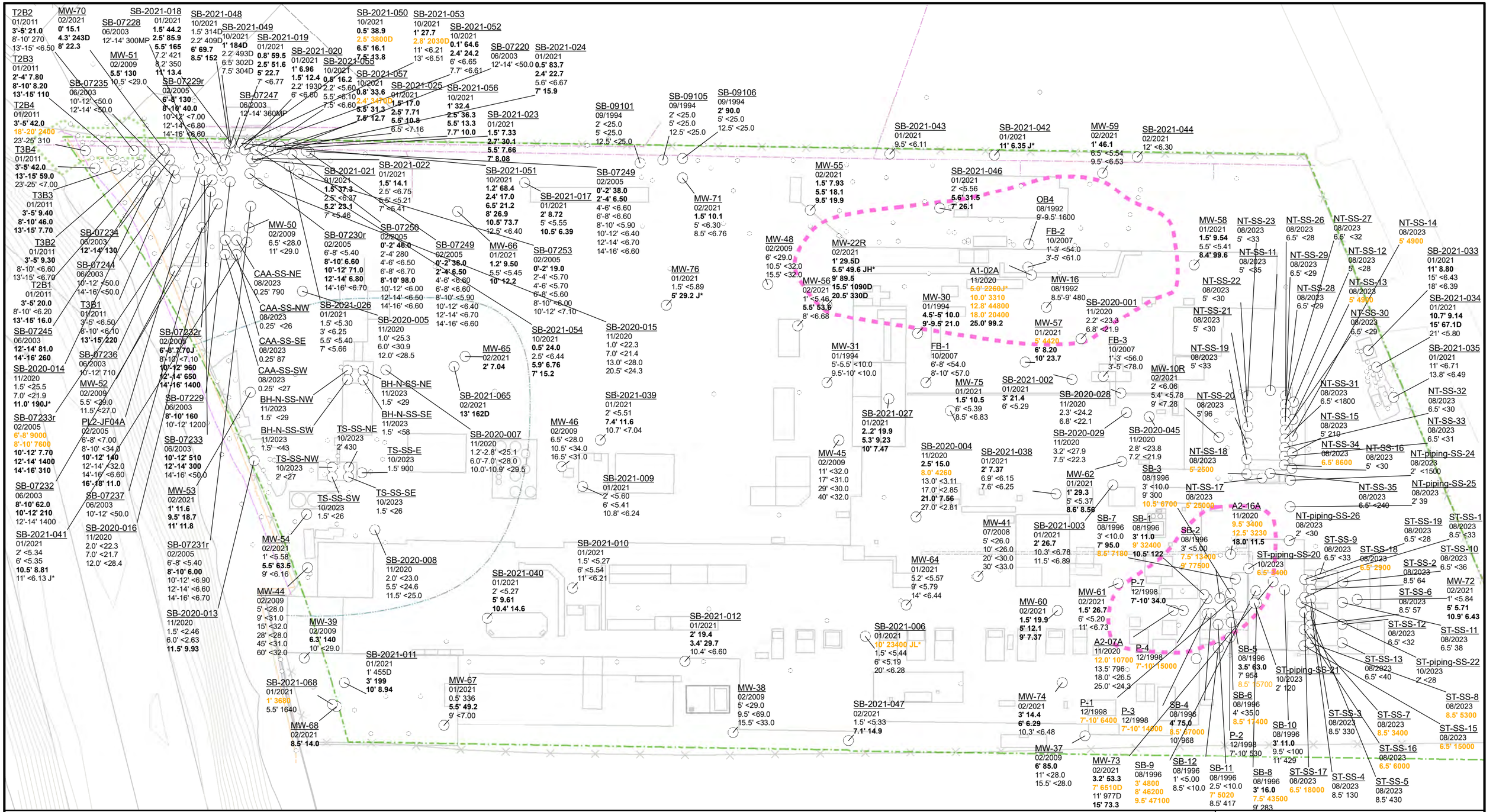
AREAS OF CONCERN

September 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. 27

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Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 AOC.dwg Layout: Figure 27 Date: 09-11-2024 Login: JRS



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for diesel-range petroleum hydrocarbons is 2,000 mg/kg.

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Tukwila, Washington

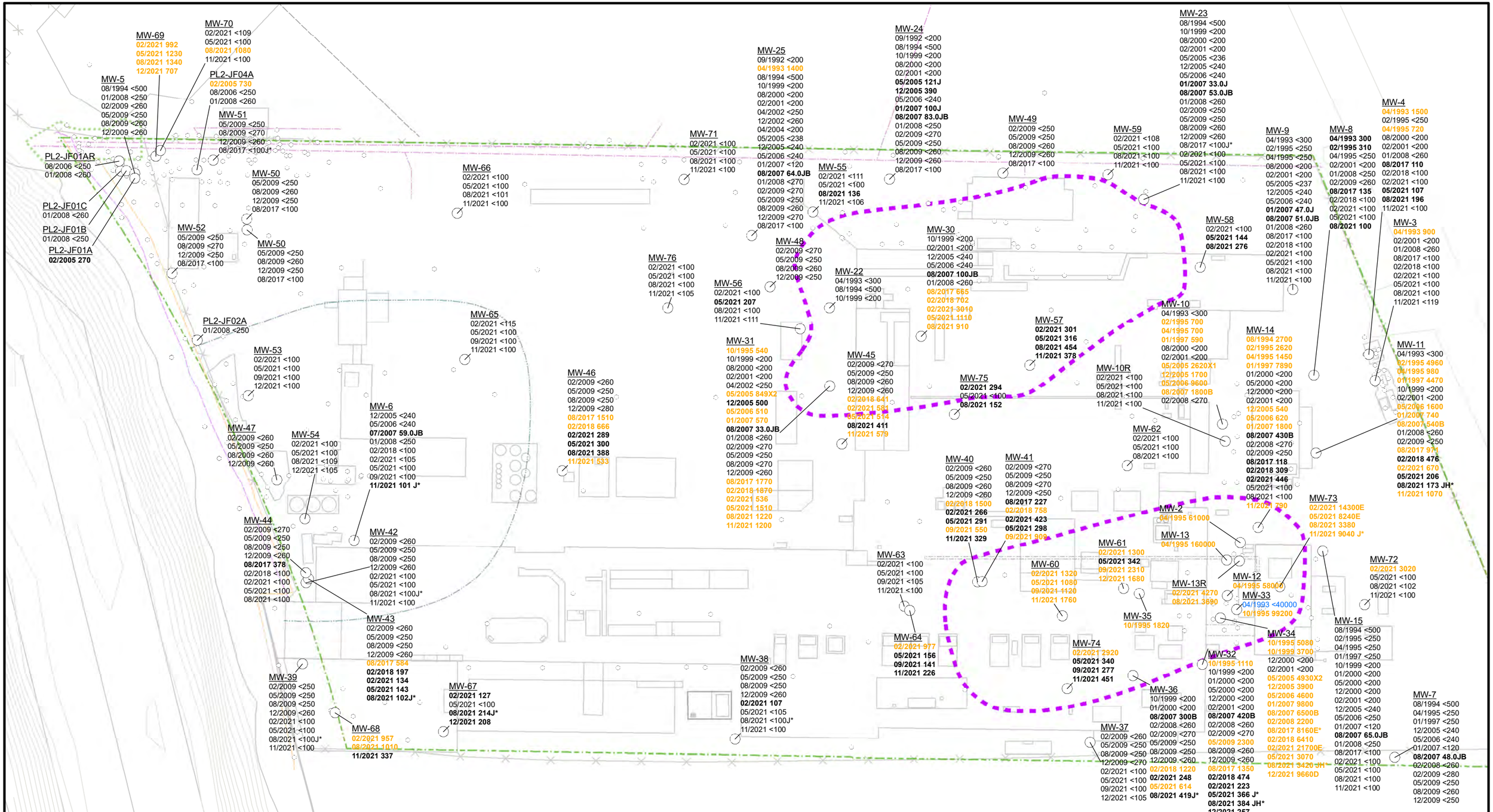
DIESEL-RANGE PETROLEUM HYDROCARBONS IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | **FIG. 28A**

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/12/2024 KAC



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

0 100 Feet

Analyte Result Key

T2B2	*Sample Location Name*
1/2010 220 100	*Sample Date: Result - Total Result - Dissolved*
1/2010 220 100	*Sample Date: Result - Total Result - Dissolved (Detected)*
1/2010 820 100	*Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*
1/2010 356,220 100	*Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for diesel-range petroleum hydrocarbons is 500 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
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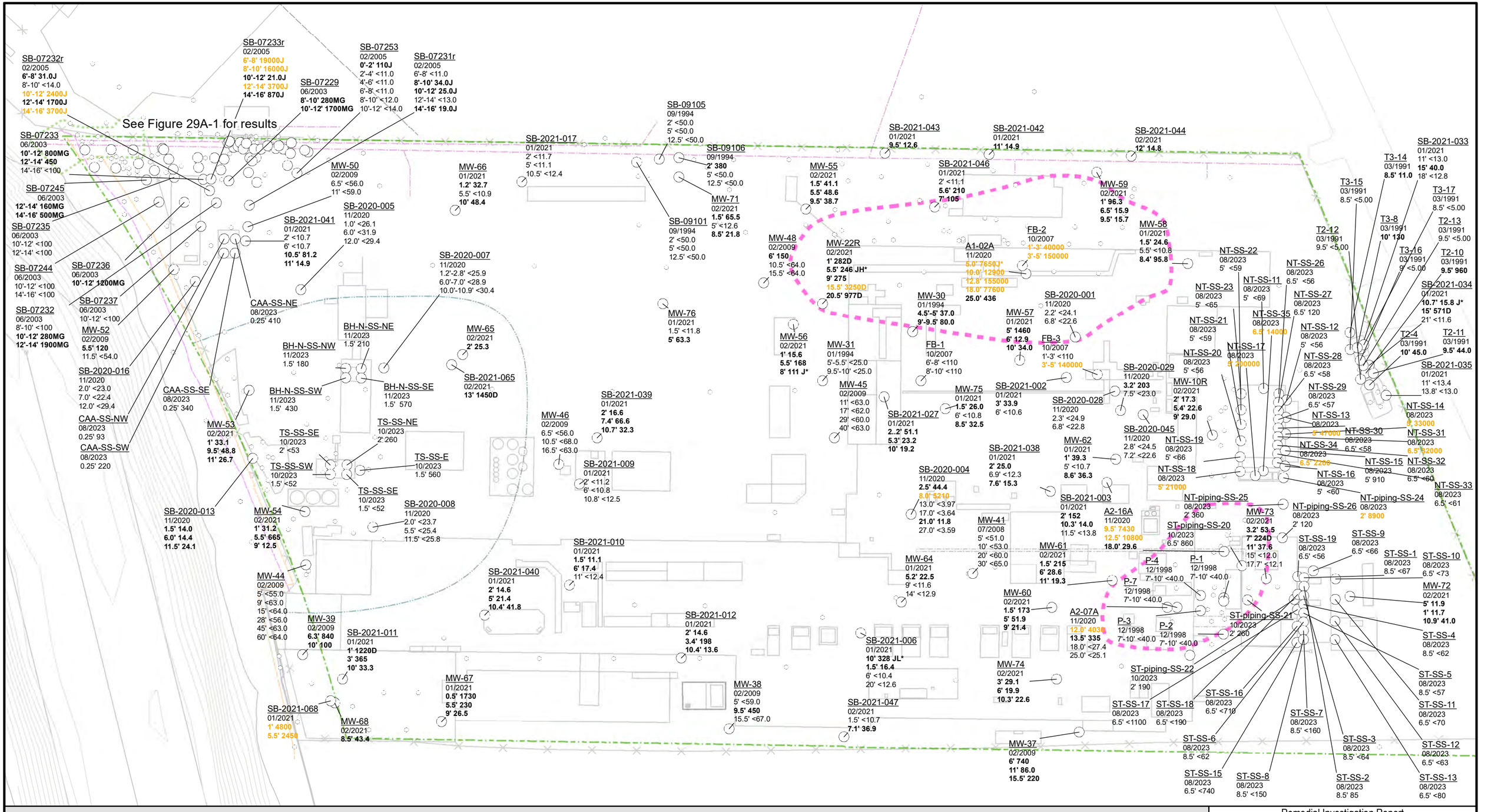
DIESEL-RANGE PETROLEUM HYDROCARBONS IN GROUNDWATER

September 2024 | 21-1-12596-040

SHANNON & WILSON | FIG. 28B

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC



N W E S

0 100 Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for oil-range petroleum hydrocarbons is 2,000 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

OIL-RANGE PETROLEUM HYDROCARBONS IN SOIL

September 2024 | 21-1-12596-040

SHANNON & WILSON | FIG. 29A

DRAFT FOR PUBLIC COMMENT

T2B2
01/2011
3'-5' 46.0
8'-10' 570
13'-15' <13.0

MW-70
02/2021
0' 41.7
4.3' 673D
8' 77.1

PL2-JF04A
02/2005
6'-8' <14.0
8'-10' 70.0J
10'-12' 390J
12'-14' <65.0
14'-16' 14.0J
16'-18' 26.0J

SB-07247
06/2003
12'-14' 430MG

MW-51
02/2009
5.5' 680
10.5' <58.0

SB-07228
06/2003
12'-14' 550MG

SB-2021-049
10/2021
1' 560D
2.2' 1190D
6.5' 459D
7.5' 437D

SB-2021-018
01/2021
1.5' 152
2.5' 391
5.5' 537
7.2' 778
8.2' 649
11' 38.1

SB-2021-050
10/2021
0.5' 186
2.5' 4770D
6.5' 37.5
7.5' 44.2

SB-2021-051
10/2021
1.2' 166
2.4' 40.5
6.5' 47.1
8' 57.7
10.5' 112
12.5' <12.8

SB-2021-053
10/2021
1' 90.1
2.8' 3030D
11' <12.4
13' <13.0

SB-2021-023
01/2021
1.5' 17.7
2.7' 117
5.5' 42.6
7' 52.2

SB-2021-057
10/2021
0.8' 124
2.4' 3340D
5.5' 36.3
7.5' 58.8

SB-2021-024
01/2021
0.5' 237
2.4' 85.6
5.6' 18.0
7' 121

SB-2021-025
01/2021
1.5' 58.2
2.5' 17.4
5.5' 23.8
6.5' 25.5

T2B4
01/2011
3'-5' 550
18'-20' 4300
23'-25' 1200

T3B4
01/2011
3'-5' 380
13'-15' 2600
23'-25' <14.0

T3B3
01/2011
3'-5' 40.0
8'-10' 200
13'-15' 31.0

T3B2
01/2011
3'-5' 36.0
8'-10' <13.0
13'-15' <14.0

T2B1
01/2011
3'-5' 58.0
8'-10' <12.0
13'-15' 52.0

SB-2020-014
11/2020
1.5' <26.4
7.0' <22.6
11.0' 600J*

SB-07234
06/2003
12'-14' 280MG

T3B1
01/2011
3'-5' <13.0
8'-10' <12.0
13'-15' 600

SB-07229r
02/2005
6'-8' 260J
8'-10' 190J
10'-12' 15.0J
12'-14' <14.0
14'-16' <13.0

SB-2021-048
10/2021
1.5' 996D*
2.2' 1030D
6' 236
8.5' 307

SB-2021-019
01/2021
0.8' 177
2.5' 238
5' 98.5
7' 25.9

SB-2021-020
01/2021
1' 38.4
1.5' 48.7
2.2' 3060
6' 22.1

SB-07220
06/2003
12'-14' <100

SB-2020-015
11/2020
1.0' <23.0
7.0' <22.1
13.0' <28.9
20.5' <25.1

SB-07230r
02/2005
6'-8' <11.0
8'-10' 29.0J
10'-12' 180J
12'-14' 20.0J
14'-16' <13.0

SB-2021-052
10/2021
0.1' 256
2.4' 82.1
6' 20.8
7.7' 30.5

SB-2021-054
10/2021
0.5' 243
2.5' 22.1
5.9' 27.9
7' 83.7

SB-2021-022
01/2021
1.5' 59.2
2.5' 27.2
5.5' <10.4
7' <10.8

SB-2021-021
01/2021
1.5' 168
2.5' 13.7 J*
5.2' 97.2
7' <10.9

SB-2021-055
10/2021
0.5' 66.8
2.2' <11.2
5.5' 24.6
7.5' 45.2

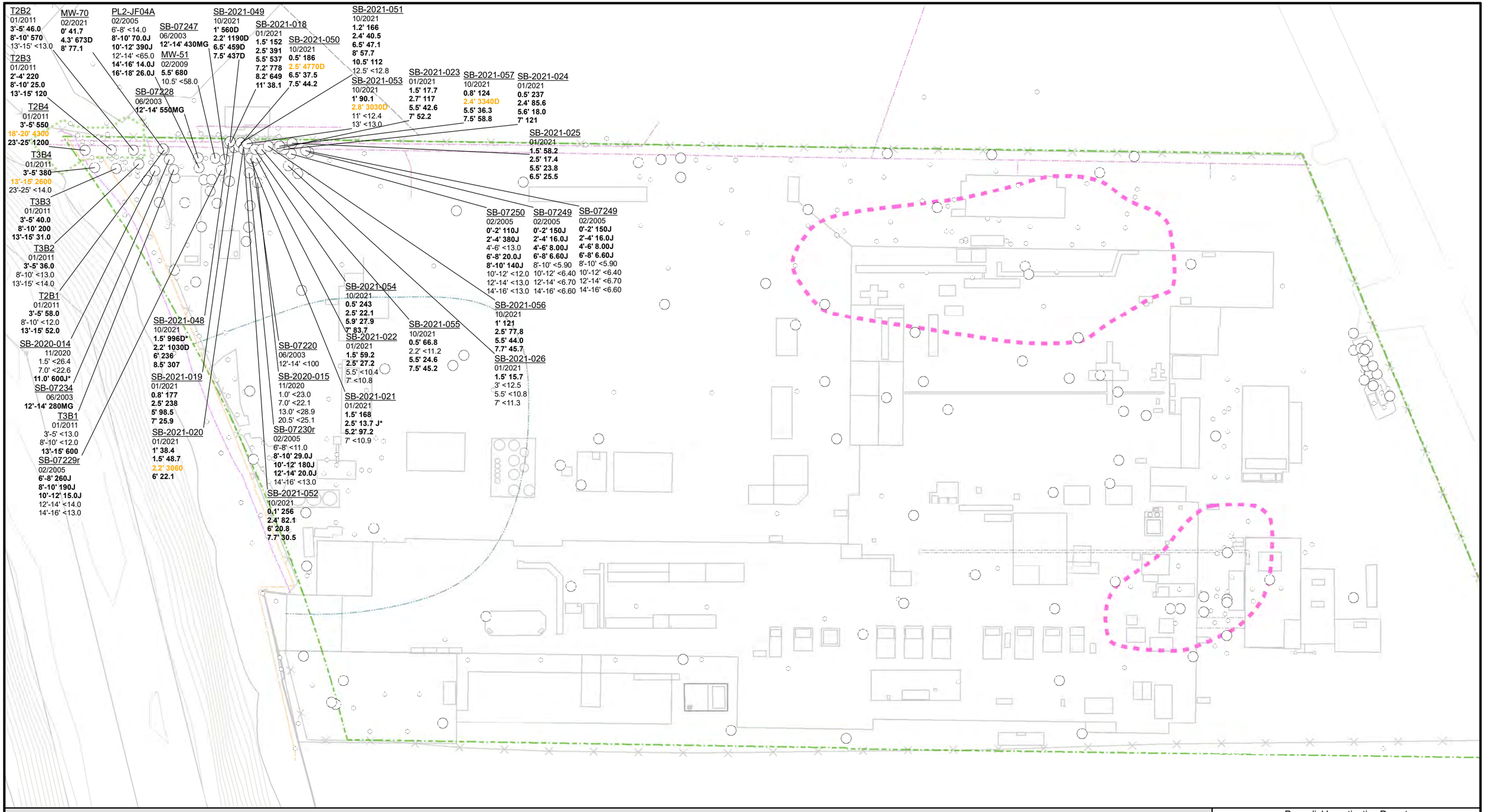
SB-07250
02/2005
0'-2' 110J
2'-4' 380J
4'-6' <13.0
6'-8' 20.0J
8'-10' 140J
10'-12' <12.0
12'-14' <13.0
14'-16' <13.0

SB-07249
02/2005
0'-2' 150J
2'-4' 16.0J
4'-6' 8.00J
6'-8' 6.60J
8'-10' <5.90
10'-12' <6.40
12'-14' <6.70
14'-16' <6.60

SB-07249
02/2005
0'-2' 150J
2'-4' 16.0J
4'-6' 8.00J
6'-8' 6.60J
8'-10' <5.90
10'-12' <6.40
12'-14' <6.70
14'-16' <6.60

SB-2021-056
10/2021
1' 121
2.5' 77.8
5.5' 44.0
7.7' 45.7

SB-2021-026
01/2021
1.5' 15.7
3' <12.5
5.5' <10.8
7' <11.3



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

0 100 Feet

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for oil-range petroleum hydrocarbons is 2,000 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

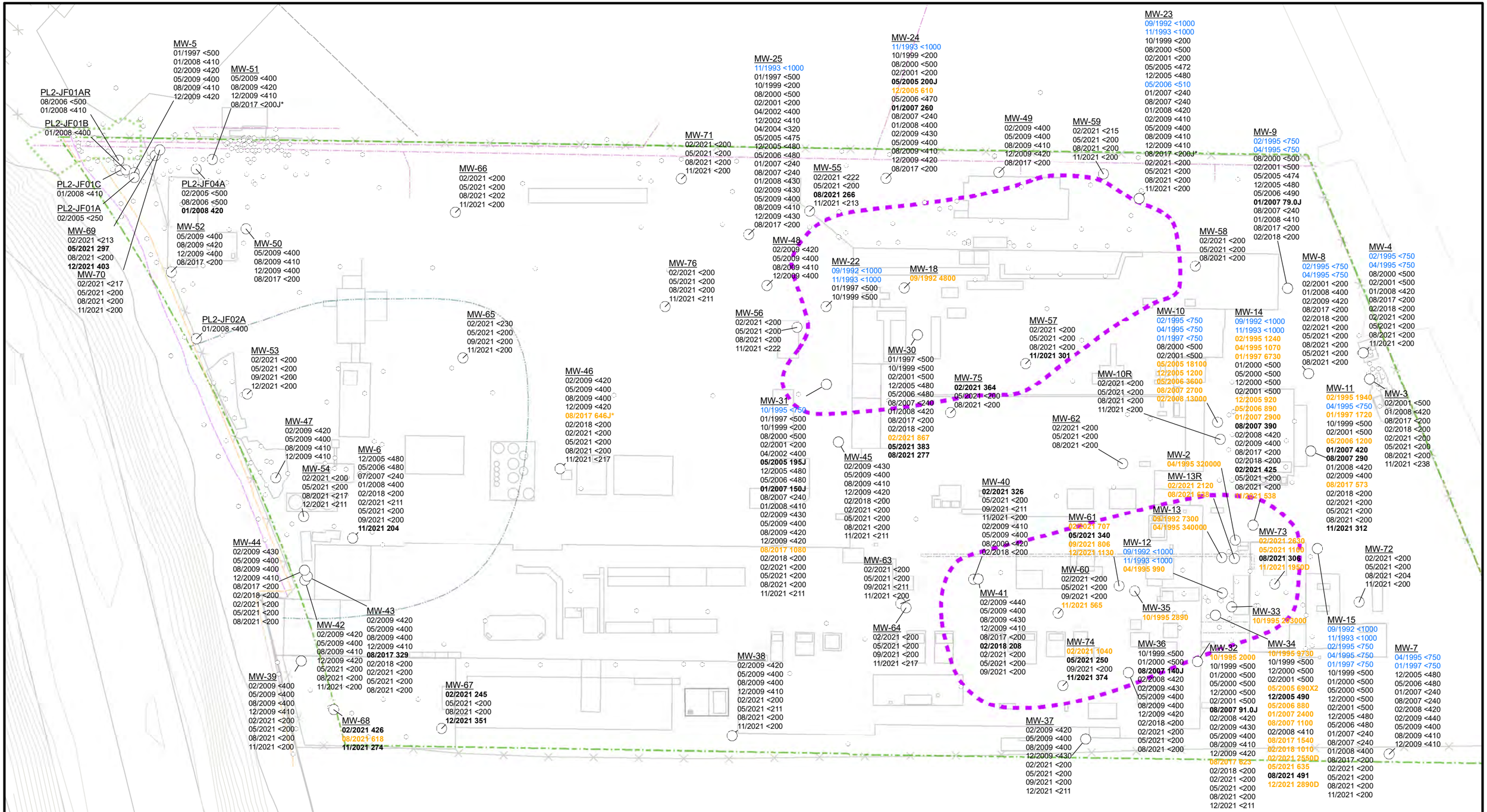
OIL-RANGE PETROLEUM HYDROCARBONS IN SOIL

September 2024 | 21-1-12596-040

SHANNON & WILSON | FIG. 29A-1

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Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_ORO_29A-1_20240817.mxd Date: 9/12/2024 KAC



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

0 100 Feet

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for oil-range petroleum hydrocarbons is 500 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

OIL-RANGE PETROLEUM HYDROCARBONS IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 29B

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SB-2020-014
11/2020
1.5' <4.12
7.0' <3.14
11.0' 713J*

MW-70
02/2021
0' <7.29
4.3' <7.59
8' <8.09

SB-07245
06/2003
12'-14' 140MP
14'-16' 360MP

SB-07234
06/2003
12'-14' 280MP

SB-07228
06/2003
12'-14' 1700MP

MW-51
02/2009
5.5' 15.0
10.5' <11.0

SB-07247
06/2003
12'-14' 1000MP

SB-07233
06/2003
10'-12' 710MP
12'-14' 360MP
14'-16' <34.0

SB-07220
06/2003
12'-14' 68.0MP

SB-2020-015
11/2020
7.0' <3.16
1.0' <3.29
13.0' <4.60

SB-07235
06/2003
10'-12' 42.0MP
12'-14' <34.0

SB-07244
06/2003
10'-12' 110MP
14'-16' <36.0

SB-07237
06/2003
10'-12' <35.0

SB-07229
06/2003
8'-10' 350MP
10'-12' 5200MP

SB-07236
06/2003
10'-12' 1700MP

MW-52
02/2009
5.5' <4.50
11.5' <5.40

SB-2020-016
11/2020
2.0' <3.14
7.0' <3.50
12.0' <5.39

SB-07232
06/2003
8'-10' 160MP
10'-12' 660MP
12'-14' 4700MP

MW-50
02/2009
6.5' <5.80
11' <5.40

SB-2021-041
01/2021
2' <7.01
6' <5.95
10.5' <11.0
13.3' <9.03
19' <9.12
23' <8.00

SB-2021-017
01/2021
2' <8.28
5' <6.35
10.5' <7.90

SB-09101
09/1994
2' <20.0
5' <20.0
12.5' <20.0

SB-09105
09/1994
2' <20.0
5' <20.0
12.5' <20.0

SB-09106
09/1994
2' <20.0
5' <20.0
12.5' <20.0

MW-48
02/2009
6' <5.60
10.5' <6.80
15.5' <6.50

FB-2
10/2007
1'-3' 25.0ZO
3'-5' 35.0ZO

FB-1
10/2007
6'-8' <22.0
8'-10' <23.0

FB-3
10/2007
1'-3' <22.0
3'-5' 1100ZO

MW-45
02/2009
11' <6.70
17' <6.10
29' <5.30
40' <5.10

MW-46
02/2009
6.5' <11.0
10.5' <14.0
16.5' <6.70

SB-2021-039
01/2021
2' <30.4
7.4' <9.32
10.7' <9.99

SB-2021-009
01/2021
2' <6.63
6' <7.33
10.8' <7.79

MW-44
02/2009
9' <6.00
5' <5.80
15' <5.00
28' <4.70
45' <5.90
60' <6.60

MW-39
02/2009
6.3' <5.20
10' <7.90

MW-38
02/2009
5' <5.60
9.5' <5.10
15.5' <7.00

SB-2021-047
02/2021
1.5' <6.07
7.1' <7.97

SB-2021-006
01/2021
10' 3480
20' <8.09

MW-41
07/2008
5' <3.20
10' <3.50
20' <3.60
30' <5.30

MW-60
02/2021
1.5' <7.71
5' <9.78
9' <6.62

MW-37
02/2009
6' 18.0
11' <4.80
15.5' <4.80

MW-73
02/2021
3.2' <7.25
7' 107
11' 2550 JL*
15' 402
17.7' <7.70

A2-07A
11/2020
12.0' 676
13.5' 68.3
18.0' 61.7
25.0' <3.25

A2-16A
11/2020
9.5' 71.0
12.5' 39.9
18.0' <3.79

MW-61
02/2021
6' <6.03
1.5' <7.76
11' <8.49

B-1
12/1990
7'-8.5' 3.50
10' <1.00

SB-2020-029
11/2020
3.2' <3.35
7.5' <3.06

SB-2020-045
11/2020
2.8' <3.40
7.2' <3.44

NT-SS-26
08/2023
6.5' <4.9

NT-SS-27
08/2023
6.5' <7.7

NT-SS-28
08/2023
6.5' <5.3

NT-SS-30
08/2023
6.5' <5.8

NT-SS-11
08/2023
5' <7.2

NT-SS-29
08/2023
6.5' <4.9

NT-SS-23
08/2023
5' <6.2

NT-SS-35
08/2023
6.5' 6.5

NT-SS-22
08/2023
5' <5.3

NT-SS-21
08/2023
5' <5.1

NT-SS-20
08/2023
5' <5.2

NT-SS-19
08/2023
5' <6.2

NT-SS-18
08/2023
5' 180

NT-SS-17
08/2023
5' 480

NT-SS-34
08/2023
6.5' 280

NT-piping-SS-25
08/2023
2' <5.2

NT-piping-SS-26
08/2023
2' <4.8

NT-SS-12
08/2023
5' <5.6

NT-SS-13
08/2023
5' 100

NT-SS-32
08/2023
6.5' <5.3

NT-SS-14
08/2023
5' 450

NT-SS-33
08/2023
6.5' <5.7

NT-SS-16
08/2023
5' <6

NT-SS-15
08/2023
5' 110

NT-SS-31
08/2023
6.5' 80

NT-piping-SS-24
08/2023
2' <64

T3-15
03/1991
8.5' <1.00

T3-8
03/1991
10' 180

T3-14
03/1991
8.5' 1.50

T3-16
03/1991
9' <1.00

T2-13
03/1991
9.5' <1.00

T2-12
03/1991
9.5' <1.00

T2-10
03/1991
9.5' 1500

SB-2021-033
01/2021
11' 1420
15' 22.6
18' <7.29

T3-17
03/1991
8.5' <1.00

SB-2021-034
01/2021
10.7' 179 J*
15' 29.8
21' <6.68

T2-11
03/1991
9.5' <1.00

T2-4
03/1991
10' 86.0

SB-2021-035
01/2021
11' <9.26
13.8' <7.91

T1-2
03/1991
10' <1.00

T1-1
03/1991
10' <1.00

T1-3
03/1991
10' 2.20

ST-SS-9
08/2023
6.5' <5.7

ST-SS-1
08/2023
8.5' <6.7

ST-SS-19
08/2023
6.5' <4.7

ST-SS-10
08/2023
6.5' <7.1

ST-SS-11
08/2023
6.5' <7.1

ST-SS-2
08/2023
8.5' <64

ST-SS-5
08/2023
8.5' <120

ST-piping-SS-21
10/2023
2' <4.8

ST-SS-18
08/2023
6.5' <78

ST-SS-3
08/2023
8.5' <56

ST-piping-SS-22
10/2023
2' <4

ST-SS-17
08/2023
6.5' <170

ST-SS-7
08/2023
8.5' <5.7

ST-SS-4
08/2023
8.5' <5.8

ST-piping-SS-20
10/2023
6.5' 220

ST-SS-6
08/2023
8.5' <5.6

ST-SS-16
08/2023
6.5' <230

ST-SS-15
08/2023
6.5' <280

ST-SS-8
08/2023
8.5' 1300

ST-SS-12
08/2023
6.5' <6.6

ST-SS-13
08/2023
6.5' <8.6

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for gasoline-range petroleum hydrocarbons is 100 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

GASOLINE-RANGE PETROLEUM HYDROCARBONS IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 30A

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Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/12/2024 KAC

MW-51
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100
08/2017 <100
02/2021 <100
05/2021 <100
08/2021 <100
12/2021 <100

MW-70
02/2021 <100
05/2021 <100
08/2021 293
11/2021 <100

MW-69
02/2021 455
05/2021 371
08/2021 348
12/2021 215

PL2-JF01AR
08/2006 <250
01/2008 150

PL2-JF01C
01/2008 <100

PL2-JF04A
02/2005 350
08/2006 1800J
01/2008 1200

PL2-JF01B
01/2008 <100

MW-5
01/2008 <100
02/2009 1100
05/2009 220
08/2009 130
12/2009 <100

MW-50
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100
08/2017 <100

MW-52
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100
08/2017 <100
02/2018 <100
02/2021 <100
05/2021 <100
08/2021 <100
12/2021 <100

PL2-JF01A
09/1995 480
11/1995 360
03/1996 <250
05/1996 450
08/1996 460
11/1996 <250
02/2005 <250

PL2-JF02A
01/2008 <100

MW-65
02/2021 <100
05/2021 <100
09/2021 <100
11/2021 <100

MW-46
02/2009 140
05/2009 150
08/2009 <100
12/2009 310T
08/2017 <100
02/2018 <100
02/2021 160
05/2021 132
08/2021 <100
11/2021 <100

MW-47
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100

MW-6
12/2005 <100
05/2006 <100
07/2007 12.0JB
01/2008 <100
02/2018 <100
02/2021 <100
05/2021 <100
09/2021 <100
11/2021 <100

MW-44
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100
08/2017 <100J*

MW-43
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100
08/2017 <100

MW-42
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100

MW-39
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100
02/2021 <100
05/2021 <100
08/2021 <100
11/2021 <100

MW-71
02/2021 <100
05/2021 <100
08/2021 <100
11/2021 <100

MW-25
05/2005 <100
12/2005 <100
05/2006 <100
01/2007 21.0JB
08/2007 17.0JB
01/2008 <100
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100

MW-24
05/2005 <100
12/2005 <100
05/2006 <100
01/2007 <50.0
08/2007 33.0JB
01/2008 <100
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100

MW-49
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100
08/2017 <100

MW-23
11/1992 <500
05/2005 <100
12/2005 <100
05/2006 <100
01/2007 <50.0
08/2007 11.0JB
01/2008 <100
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100

MW-9
04/1993 <50.0
04/1995 <50.0
08/2000 <100
02/2001 <100
05/2005 <100
12/2005 <100
05/2006 <100
01/2007 13.0JB
08/2007 11.0JB
01/2008 <100
08/2017 <100
02/2018 <100
02/2021 <100
05/2021 <100
08/2021 <100
11/2021 <100

MW-8
10/1991 3900
04/1993 990
04/1995 200
02/2001 <100
01/2008 <100
02/2009 <100
08/2017 <100
02/2018 <100
02/2021 <100
05/2021 <100
08/2021 <100

MW-4
05/1991 59000
04/1993 12600
04/1995 630
08/2000 <100
02/2001 <100
01/2008 <400
08/2017 2640
02/2018 199
02/2021 <100
05/2021 847
08/2021 2960
11/2021 139

MW-30
12/2005 <100
05/2006 <100
01/2007 27.0JB
08/2007 39.0JB
01/2008 <100
02/2018 <100
02/2021 <100
05/2021 <100
08/2021 <100

MW-48
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100

MW-31
05/2005 76.9J
12/2005 <100
05/2006 <100
01/2007 23.0JB
08/2007 27.0JB
01/2008 <100
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100

MW-45
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100

MW-75
08/2021 <100

MW-10
04/1993 <50.0
08/2000 <100
02/2001 <100
05/2005 <100
12/2005 <100
05/2006 <100
08/2007 15.0JB
02/2008 <400

MW-14
08/2000 <100
12/2000 <100
12/2005 <100
05/2006 <100
01/2007 17.0JB
08/2007 28.0JB
02/2008 <100
02/2009 <100
02/2018 <100
02/2021 <100
05/2021 <100
08/2021 <100
11/2021 <100

MW-11
04/1993 <50.0
02/2001 <100
05/2006 <100
01/2007 19.0JB
08/2007 56.0B
01/2008 <100
02/2009 <100
02/2018 <100
02/2021 <100
05/2021 <100
08/2021 <100
11/2021 <100

MW-3
05/1991 22000
04/1993 3400
02/2001 <100
01/2008 <100
08/2017 1300
02/2018 <100
02/2021 <100
05/2021 321
08/2021 536
11/2021 <100

MW-15
08/2000 <100
12/2000 <100
12/2005 <100
05/2006 <100
01/2007 11.0JB
08/2007 8.90JB
01/2008 <100
02/2018 <100
02/2021 <100
05/2021 <100
08/2021 <100
11/2021 <100

MW-40
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100

MW-41
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100
08/2017 <100

MW-61
02/2021 <100
05/2021 <100
09/2021 <100
12/2021 167

MW-60
02/2021 170
05/2021 139
09/2021 131
11/2021 129

MW-13R
02/2021 <100
08/2021 <100

MW-73
02/2021 301
05/2021 752
08/2021 510
11/2021 520

MW-72
02/2021 <100
11/2021 <100

MW-74
02/2021 216
05/2021 <100
09/2021 <100
11/2021 <100

MW-38
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100
02/2021 <100
05/2021 <100
08/2021 <100
11/2021 <100

MW-37
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100
02/2021 <100
05/2021 <100
09/2021 <100
12/2021 <100

MW-36
08/2007 13.0JB
02/2008 <100
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100
02/2018 <100
02/2021 <100
05/2021 <100
08/2021 <100

MW-32
08/2000 <100
12/2000 <100
08/2007 88.0B
02/2008 <100
02/2009 <100
05/2009 1600
08/2009 <100
12/2009 <100
08/2017 <100
02/2021 <100
05/2021 <100
08/2021 <100
12/2021 <100

MW-34
08/2000 1500
12/2000 1700
05/2005 375
12/2005 520
05/2006 450
01/2007 230B
08/2007 89.0B
02/2008 <100
02/2018 <100
02/2021 <100
05/2021 <100
08/2021 <100
12/2021 <100

MW-7
12/2005 <100
05/2006 <100
01/2007 <50.0
08/2007 14.0JB
02/2008 <100
02/2009 <100
05/2009 <100
08/2009 <100
12/2009 <100

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for gasoline-range petroleum hydrocarbons is 1000 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

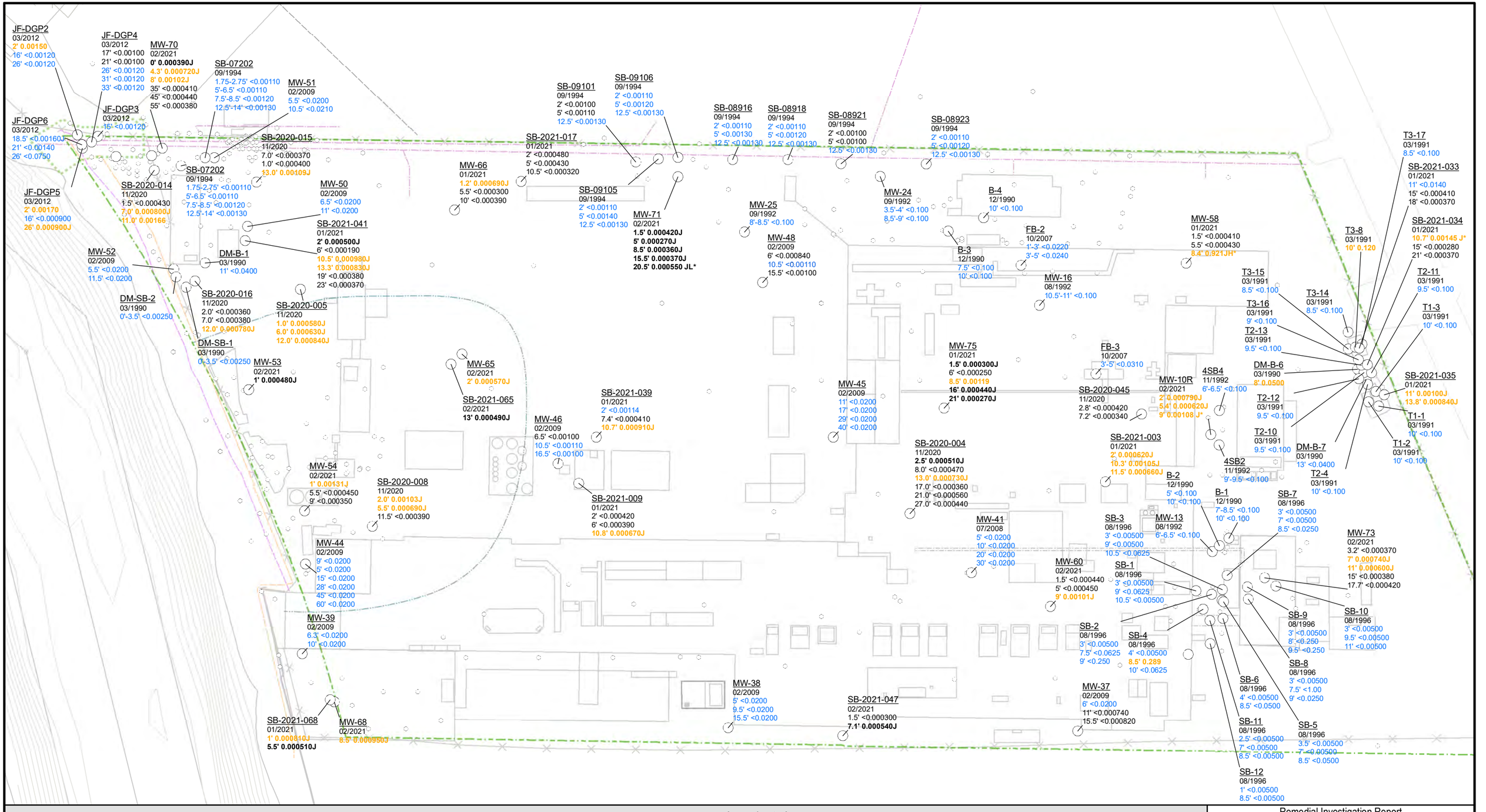
GASOLINE-RANGE PETROLEUM HYDROCARBONS IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON **FIG. 30B**

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/12/2024 KAC



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*
3/2012 *Sample Date*
2'-4' 220 *Depth : Result*
2'-4' 220 *Depth : Result (Detected)*
4'-6' 820 *Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220 *Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections screened against the most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL). Detection limits (when not detected) screened against the laboratory reporting limit (RL) from the QAPP.
4. The PCUL for benzene is 0.00056 mg/kg. The RL for benzene is 0.001 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

BENZENE IN SOIL

September 2024 21-1-12596-40

SHANNON & WILSON

FIG. 31A

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/12/2024 KAC

PL2-JF01AR
05/2001 <5.00D
07/2001 4.00
10/2001 1.00
01/2002 29.0
06/2003 <100
09/2003 <25.0
12/2003 <30.0
12/2003 <5.00
02/2004 <20.0
05/2004 <50.0
08/2004 <50.0
09/2004 <50.0J
11/2004 5.60
02/2005 <50.0J
05/2005 4.60
08/2005 <75.0
10/2005 <10.0
02/2006 <10.0
05/2006 <15.0
07/2006 <15.0
08/2006 <25.0
11/2006 8.50
02/2007 5.30
05/2007 4.40
08/2007 4.50
11/2007 6.20
01/2008 5.80
02/2008 5.20
05/2008 5.50
08/2008 <1.00
02/2009 2.20
08/2009 8.10
02/2010 4.90
08/2010 5.30
01/2011 6.60
08/2011 3.90
02/2012 1.50
08/2012 0.500
01/2013 0.600
08/2013 2.50

PL2-JF01C
05/2001 <1.00J
07/2001 <1.00
10/2001 <1.00
01/2002 <1.00
06/2003 <1.00
12/2003 <1.00
12/2003 <0.200J
05/2004 <1.00
09/2004 <0.200J
11/2004 <1.00
02/2005 <1.00J
05/2005 <1.00
08/2005 <1.00
10/2005 <1.00J
02/2006 <1.00J
05/2006 <1.00
08/2006 <0.200J
11/2006 <1.00
02/2007 <0.200
05/2007 <1.00
08/2007 <1.00
11/2007 <1.00
01/2008 <1.00
02/2008 <1.00
05/2008 <1.00
08/2008 <1.00
02/2009 <1.00
08/2009 <1.00
08/2010 <1.00J
01/2011 <0.200
08/2011 <0.200J
02/2012 <0.200J
08/2012 <1.00
01/2013 <0.200
08/2013 <0.200

MW-5
03/1990 22.0
01/2008 <1.00
02/2009 0.910
05/2009 1.20
08/2009 1.80
12/2009 <0.200

PL2-JF01A
03/1995 4.10
09/1995 5.90
11/1995 2.20
03/1996 <1.00
05/1996 2.20
08/1996 3.90
11/1996 1.20

MW-70
02/2021 <0.0500
05/2021 <0.0500
08/2021 1.72
11/2021 <0.0500

PL2-JF04A
08/2006 0.500
01/2008 1.30

MW-51
02/2009 <1.00
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0300
02/2021 <0.0500

MW-69
02/2021 2.63
05/2021 2.02
08/2021 1.86
12/2021 0.820

MW-52
02/2009 <1.00
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 0.0600J
02/2018 0.0800J
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
12/2021 <0.0500

MW-50
02/2009 1.50
05/2009 1.60
08/2009 1.30
12/2009 1.60
08/2017 <0.0300
02/2018 <0.0300
02/2021 0.100J
05/2021 <0.0500
08/2021 <0.0500
11/2021 0.110J

PL2-JF01B
03/1995 <1.00
09/1995 <1.00
11/1995 <1.00
03/1996 <1.00
05/1996 <1.00
08/1996 <1.00
11/1996 <1.00
04/2001 <1.00
07/2001 <2.00
10/2001 <1.00
01/2002 <1.00
06/2003 <1.00
09/2003 <1.00
12/2003 <5.00
12/2003 <5.00
02/2004 <5.00
05/2004 <1.00
09/2004 <0.200J
11/2004 <1.00
02/2005 <1.00J
05/2005 <1.00
08/2005 <1.00J
10/2005 <1.00
02/2006 <1.00
05/2006 <1.00
07/2006 <1.00
08/2006 <0.200
11/2006 <0.200
02/2007 <0.200
05/2007 <1.00
08/2007 <1.00
11/2007 <1.00
01/2008 <1.00
02/2008 <1.00
05/2008 <1.00
08/2008 <1.00
02/2009 <1.00
08/2009 <1.00
08/2010 <1.00
01/2011 <0.200
08/2011 <0.200
02/2012 <0.200
08/2012 <0.200
01/2013 <0.200
08/2013 <0.200

PL2-JF02A
09/1995 1.30
11/1995 <1.00
03/1996 <1.00
05/1996 <1.00
08/1996 <1.00
11/1996 <1.00
04/2001 <1.00
07/2001 <1.00
10/2001 <1.00
01/2002 <1.00
06/2003 <1.00
09/2003 <1.00
12/2003 <1.00
02/2004 <1.00
05/2004 <1.00
11/2004 <1.00
02/2005 <1.00J
05/2005 <1.00
08/2005 <1.00J
10/2005 <1.00
02/2006 <1.00
05/2006 <1.00
07/2006 <0.200
08/2006 <0.200
11/2006 <0.200
02/2007 <0.200
05/2007 <1.00
08/2007 <1.00
11/2007 <1.00
01/2008 <1.00
02/2008 <1.00
08/2008 <1.00
02/2009 <1.00
08/2009 <1.00
08/2010 <1.00
01/2011 <0.200
08/2011 <0.200
02/2012 <0.200
08/2012 <0.200
01/2013 <0.200
08/2013 <0.200

MW-53
02/2021 <0.0500
05/2021 <0.0500
09/2021 <0.0500
12/2021 <0.0500

PL2-JF03A
09/1995 <1.00
11/1995 <1.00
03/1996 <1.00
05/1996 <1.00
08/1996 <1.00
11/1996 <1.00
04/2001 <1.00
07/2001 <1.00
10/2001 <1.00
01/2002 <1.00
06/2003 <1.00
12/2003 <1.00
05/2004 <1.00
11/2004 <1.00
05/2005 <1.00
10/2005 <1.00

MW-47
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200

MW-6
03/1990 <0.500
12/2005 <2.00
05/2006 <1.00
07/2007 <1.00
01/2008 <1.00
02/2021 <0.0500
05/2021 <0.0500
09/2021 <0.0500
11/2021 <0.0500

MW-44
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0300J*
02/2018 <0.0300
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500

MW-54
02/2021 <0.0500 J*
05/2021 <0.0500
08/2021 <0.0500
12/2021 <0.0500

MW-42
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-43
02/2009 0.250
05/2009 0.210
08/2009 0.300
12/2009 0.270
08/2017 0.190JL*
02/2018 0.180J
02/2021 0.190J
05/2021 0.220
08/2021 0.110J

MW-39
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-68
02/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-67
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
12/2021 <0.0500

MW-65
02/2021 0.220
05/2021 0.250
09/2021 0.190J
11/2021 0.0800J

MW-66
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-71
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-25
09/1992 <2000
04/1993 <1.00
11/1993 <2.00
12/2004 <1.00
05/2005 <0.500
12/2005 <2.00
05/2006 <1.00
01/2007 <1.00
08/2007 <1.00
01/2008 <1.00
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200

MW-48
02/2009 0.390
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-24
09/1992 <100
11/1993 <2.00
05/2005 <0.500
12/2005 <2.00
05/2006 <1.00
01/2007 <1.00
08/2007 <1.00
01/2008 <1.00
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
02/2021 <0.0500

MW-49
02/2009 0.280
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0300
02/2018 <0.0300
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
12/2021 <0.0500

MW-59
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-23
09/1992 <2.00
11/1992 <1.00
11/1993 <2.00
12/2004 <1.00
05/2005 <0.500
12/2005 <2.00
05/2006 <1.00
01/2007 <1.00
08/2007 0.150J
01/2008 <1.00
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200

MW-9
03/1992 <0.500
04/1995 <0.500
08/2000 <1.00
02/2001 <1.00
05/2005 <0.500
12/2005 <2.00
05/2006 <1.00
01/2007 <1.00
08/2007 <1.00
01/2008 <1.00
08/2017 <0.0300
02/2018 <0.0300
02/2021 <0.0500 J*
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-58
02/2021 0.480 JL*
05/2021 50.0
08/2021 188 JH*

MW-4
05/1991 1200
04/1995 4.00
08/2000 <1.00
02/2001 <1.00
01/2008 <4.00
08/2017 0.0700J
02/2018 <0.0300
02/2021 <0.0500 J*
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-8
10/1991 300
04/1995 18.9
02/2001 1.00
01/2008 <1.00
02/2009 <0.200
08/2017 <0.0300
02/2018 <0.0300
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500

MW-76
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-22
09/1992 <2.00
04/1993 <1.00
11/1993 <2.00

MW-30
12/2005 <2.00
05/2006 <1.00
01/2007 <1.00
08/2007 <1.00
01/2008 <1.00

MW-56
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-31
12/2004 0.0826J
05/2005 <0.500
12/2005 <2.00
05/2006 <1.00
01/2007 0.110J
08/2007 <1.00
01/2008 <1.00
02/2009 <0.200
05/2009 <1.00
08/2009 <1.00
12/2009 <1.00

MW-57
02/2021 <0.0500 J*
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-75
02/2021 <0.0500 J*
05/2021 <0.0500
08/2021 <0.0500

MW-10
03/1992 <0.500
08/2000 <1.00
02/2001 <1.00
05/2005 <0.500
12/2005 <2.00
05/2006 <1.00
08/2007 <1.00
02/2008 <4.00

MW-14
11/1993 <2.00
01/2000 <1.00
05/2000 <1.00
08/2000 <1.00
12/2000 <1.00
02/2001 <1.00
12/2005 <2.00
05/2006 <1.00
01/2007 <1.00
08/2007 <1.00
02/2008 <1.00
02/2009 <0.200
02/2021 <0.0500 J*
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-11
03/1992 0.700
10/1999 <1.00
02/2001 <1.00
05/2006 <1.00
01/2007 <1.00
08/2007 <1.00
01/2008 <1.00
02/2009 <0.200

MW-3
05/1991 72.0
02/2001 <1.00
01/2008 <1.00
08/2017 0.0300
02/2018 <0.0300
02/2021 <0.0500 J*
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-15
11/1993 <2.00
10/1999 <1.00
01/2000 <1.00
05/2000 <1.00
08/2000 <1.00
12/2000 <1.00
02/2001 <1.00
12/2005 <2.00
05/2006 <1.00
01/2007 <1.00
08/2007 <1.00
01/2008 <1.00

MW-62
02/2021 <0.0500 J*
05/2021 <0.0500
08/2021 <0.0500

MW-10R
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-13R
02/2021 <0.0500
08/2021 <0.0500

MW-13
09/1992 <2.00

MW-61
02/2021 <0.0500
05/2021 <0.0500
09/2021 <0.0500
12/2021 <0.0500

MW-12
11/1993 <2.00

MW-73
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-72
02/2021 <0.0500

MW-40
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200

MW-63
02/2021 <0.0500
05/2021 <0.0500
09/2021 <0.0500
11/2021 <0.0500

MW-41
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0300

MW-60
02/2021 <0.0500
05/2021 <0.0500
09/2021 <0.0500
11/2021 <0.0500

MW-64
02/2021 <0.0500
05/2021 <0.0500
09/2021 <0.0500
11/2021 <0.0500

MW-74
02/2021 <0.0500
05/2021 <0.0500
09/2021 <0.0500
11/2021 <0.0500

MW-32
10/1999 <1.00
01/2000 <1.00
05/2000 <1.00
08/2000 <1.00
12/2000 <1.00
02/2001 <1.00
08/2007 0.290J
02/2008 <1.00
02/2009 <0.200
05/2009 <1.00
08/2009 <1.00
12/2009 <1.00
08/2017 <0.0300

MW-34
10/1999 12.0
08/2000 9.00
12/2000 6.90
02/2001 6.60
05/2005 <0.500
12/2005 <2.00
05/2006 <1.00
01/2007 <1.00
08/2007 <1.00
02/2008 <1.00
02/2018 <0.0300

MW-7
03/1990 <0.500
12/2005 <2.00
05/2006 <1.00
01/2007 <1.00
08/2007 <1.00
02/2008 <1.00
02/2009 <0.200
05/2009 <1.00
08/2009 <1.00
12/2009 <1.00

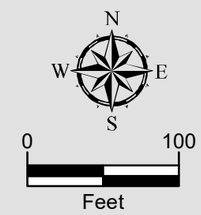
MW-38
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-46
02/2009 0.320
05/2009 <0.400
08/2009 0.250
12/2009 0.300
08/2017 0.0400JL*
02/2018 <0.0300
02/2021 0.100J
05/2021 0.0600J
08/2021 <0.0500
11/2021 <0.0500

MW-45
02/2009 1.20
05/2009 0.780
08/2009 0.800
12/2009 1.30
02/2018 0.460
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500
11/2021 <0.0500

MW-36
10/1999 <1.00
01/2000 <1.00
08/2007 <1.00
02/2008 <1.00
02/2009 <0.200
05/2009 <1.00
08/2009 <1.00
12/2009 <1.00
02/2018 <0.0300
02/2021 <0.0500
05/2021 <0.0500
08/2021 <0.0500

MW-37
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
02/2021 <0.0500
05/2021 <0.0500
09/2021 <0.0500
12/2021 <0.0500



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for benzene is 1.6 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

BENZENE IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 31B

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC

See Figure 32A-1 for results

SB-07231r
02/2005
6'-8' <0.0360
8'-10' <0.0390
10'-12' <0.0460
12'-14' <0.0440
14'-16' <0.0440

SB-2021-017
01/2021
2' <0.00160
5' <0.00160
10.5' <0.00160

SB-09101
09/1994
2' <0.0350
5' <0.0360
12.5' <0.0450

SB-09106
09/1994
2' 0.0690J
5' <0.0830Y
12.5' <0.0450

SB-09105
09/1994
2' <0.0700Y
5' <0.0360
12.5' <0.0440

SB-08916
09/1994
2' <0.0720
5' <0.0830
12.5' <0.0880JH

SB-2021-043
01/2021
9.5' 0.0609

SB-2021-042
01/2021
11' 0.0125J

SB-2021-044
02/2021
12' 0.483D

PEB-2
08/2014
0'-1' 0.191

PEB-3
08/2014
0'-1' <0.00880

SB1
08/2004
0'-2' 0.196
2'-4' 0.00700J
4'-6' 0.00350J
6'-8' 0.00568J
8'-10' 0.00570
10'-12' <0.0136

SB-2021-041
01/2021
2' <0.00160
6' 0.000600J
10.5' 0.00230J
11' 0.0145

TSA-2021-006
01/2021
1.2' 0.00140J
1.7' <0.00160

SB-2020-016
11/2020
2.0' 0.00150J
7.0' 0.00590
12.0' <0.00160

TSA-2020-003
11/2020
1.5' 0.656J
2.0' 0.773

JF-SB3NSW-6
09/2013
1' 0.210

JF-SB3ESW-6
09/2013
1.5' <0.100

SB-2020-007
11/2020
6.0'-7.0' 0.00630
1.2'-2.8' 0.00240J
10.0'-10.9' 0.0114J
20.0'-21.4' <0.00160
23'-24.6' <0.00150

TSA-2021-005
01/2021
1.2' 0.470D
1.7' <0.00160
3' 0.000900J

MW-65
02/2021
2' 0.00210J

SB-2021-065
02/2021
13' <0.00160

PEB-4
08/2014
0'-1' 11.0

SB2
08/2004
0'-2' 0.396
2'-4' 0.119
4'-6' 0.0442
6'-8' 0.0437
8'-10' 0.00618J
10'-12' 0.668
12'-14' 0.00610
14'-16' 0.00606J

SB3
08/2004
0'-2'e 17.8
2'-4' 0.206
4'-6' 0.227
6'-8' 0.259
8'-10' 0.226

JF-SB3BA2-6
09/2013
2.5' <0.100

MW-53
02/2021
1' 0.0216
9.5' 0.00840J
11' 0.0342
15.8' 0.00500

TS-SS-NW
10/2023
2' <0.053

TS-SS-NE
10/2023
2' 0.18

TSA-2021-004
01/2021
1.2' 0.590D
1.7' 0.762JH*
3' 0.00570J

JF-SB4NSW-9
09/2013
4' 4.50

JF-SB3BA1-6
09/2013
2.5'e 4.90

PEB-5
08/2014
0'-1' 0.256

TS-SS-E
10/2023
1.5' 0.36

TS-SS-SW
10/2023
1.5' <0.052

TSA-2020-001
11/2020
1.4' 0.00350J
1.9' 0.0651J*

TS-SS-SE
10/2023
1.5' <0.052

SB4
08/2004
0'-2'e 6.83
2'-4'e 1.92
4'-6'e 11.3
6'-8' 0.397
8'-10' 0.435
10'-12' 0.0221J
12'-14' 7.04
14'-16' 1.56

SB-2020-013
11/2020
1.5' 0.169
6.0' 0.0930
11.5' 0.00380J
20.5' 0.199
23' <0.00160

JF-SB4BA2-9
09/2013
6' 0.358

JF-SB4BA3-9
09/2013
6' <0.100

TSA-2020-002
11/2020
1.5' 1.48
2.0' 0.00370J

TSA-2021-007
01/2021
0.8' 0.0280
1.3' <0.00160

MW-54
02/2021
1' 56.1D
5.5' 4.42D
9' 0.0592
14.5' 0.00800J

SB-2020-008
11/2020
2.0' <0.00160
5.5' 0.00220J
11.5' <0.00160

HA-2020-002
11/2020
0.0' 0.0309J
0.5' 0.0110J

HA-2020-003
11/2020
0.0' 0.0739
0.2' 0.0384J
0.7' 0.0493

HA-2020-001
11/2020
0.0' 0.0972
0.5' 0.109D

JF-SB4SSW-9
09/2013
4' <0.100

JF-SB4BA1-9
09/2013
6' <0.100

JF-SB4ESW-9
09/2013
3' <0.100

PEB-6
08/2014
0'-1' 1.60

SB-2021-068
01/2021
1' 1.40
5.5' <0.205

HA-2020-005
11/2020
0.5' 0.0924

SB5
08/2004
0'-2' 0.0347J
2'-4' 0.0149J
4'-6' 0.0630
6'-8' 0.0201J
8'-10' 0.184
10'-12' 0.125
12'-14' 0.123
14'-16' 0.173

SB6
08/2004
0'-2' 0.138
2'-4' 0.158
4'-6' 0.183
6'-8' 0.203
8'-10' 0.207
10'-12' 0.266
12'-14' 0.185
14'-16' 0.0907

SB7
08/2004
0'-2' 0.0976
2'-4' 0.351
4'-6' 1.62
6'-8' 0.365
8'-10' 0.420
10'-12' 0.302
12'-14' 0.381
14'-16' 0.629

MW-68
02/2021
8.5' <0.00160

SB-2021-047
02/2021
10.5' <0.00160

MW-19
08/1992
9'-9.5' <0.0500

MW-20
08/1992
6'-6.5' <0.0500

MW-16
08/1992
9'-9.5' <0.0500

SB-2021-002
01/2021
3' 0.00110J
6' <0.00160

SB-2020-045
11/2020
2.8' <0.00160
7.2' <0.00160

NT-SS-13
08/2023
5' 0.2

NT-SS-35
08/2023
6.5' <0.059

NT-SS-31
08/2023
6.5' <0.058

SB-2020-004
11/2020
2.5' <0.00140
8.0' 0.0631
13.0' <0.00150
17.0' <0.00140
21.0' <0.00140
27.0' <0.00140

SB-2021-038
01/2021
2' <0.00160
6.9' <0.00150
7.6' <0.00150

NT-SS-18
08/2023
5' 0.084

NT-SS-34
08/2023
6.5' <0.060

NT-SS-17
08/2023
5' 0.27

NT-piping-SS-24
08/2023
2' 0.52

MW-13
08/1992
6'-6.5' <0.0500

MW-73
02/2021
3.2' 0.00780J
7' <0.00160
11' <0.00160
15' <0.00160
17.7' <0.00160

MW-61
02/2021
6' <0.00160
1.5' 0.0947
11' <0.00160

MW-60
02/2021
1.5' <0.00160
5' <0.00160
9' <0.00160

ST-piping-SS-20
10/2023
6.5' <0.057

ST-piping-SS-22
10/2023
2' <0.055

ST-SS-17
08/2023
6.5' <0.053

ST-piping-SS-21
10/2023
2' <0.055

MW-74
02/2021
3' <0.00160
6' <0.00160
10.3' 0.00480J

ST-SS-7
08/2023
8.5' <0.062

ST-SS-15
08/2023
6.5' <0.053

ST-SS-8
08/2023
8.5' <0.063

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*
3/2012 *Sample Date*
2'-4' 220 *Depth : Result*
2'-4' 220 *Depth : Result (Detected)*
4'-6' 820 *Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220 *Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the soil preliminary cleanup level based on bank erosion (PCUL).
4. The PCUL for total PCB aroclors is 0.13 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

TOTAL PCB AROCLORS IN SOIL

September 2024 | 21-1-12596-040

SHANNON & WILSON | FIG. 32A

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_PCB_32A_20240817.mxd Date: 9/12/2024 KAC

DRAFT FOR PUBLIC COMMENT

JF-DGP2
03/2012
0'-2' 0.277
5'-6.5' 13.5
10'-11.8' 219
15'-17' 0.402J
17'-19' 0.00420
19'-19.8' 0.0116J
20'-22' 0.120
22'-24' 0.00460
24'-24.8' 0.0110
25'-27' 0.350
27'-29' 0.190

JF-DGP4
03/2012
0'-2' 0.104
5'-7' 0.0237
7'-8.75' 0.164
2'-3' 0.00880J
10'-12' 0.930
12'-13.75' 8.90
15'-17' 3.70
17'-17.5' 5.80
20'-22' 2.49
22'-23.5' 1.47
25'-27' 1.92
27'-29' 0.290
29'-29.5' 1.20
30'-32' 0.640
32'-34' 0.792

JF-DGP3
03/2012
0'-2' 0.0900
5'-7' 0.0260
7'-7.5' 190
2'-3' 0.00260J
10'-12' 330
15'-16.5' 12.3
20'-21' 6.30
25'-27' 3.29
27'-29' 1.32
30'-32' 3.06
25'-27' 0.180
32'-35' <0.0320
35'-37' <0.0310
37-39' <0.0320
40'-42' <0.0310

JF-DGS1
03/2012
5'-7' 9.80
10'-12' 1.69
15'-17' 0.0460
17'-19' 0.00540
20'-22' 0.380
25'-27' 0.360
30'-32' ND

JF-DGP1
03/2012
0'-1.7' 0.166
4.3'-6.1' 0.580
8.7'-10.8' 26.8
13'-15.6' 99.0
17.3'-19.9' 27.7
21.7'-24.2' 0.179
24.2'-25.8' 0.00340J
26'-28.6' 0.0234

T3B3
01/2011
3'-5' <0.0130
8'-10' 0.670
13'-15' 0.0540

JF-DGP6
03/2012
10'-12' 0.282
12'-14' 42.0
15'-17' 96.0
17'-19' 52.7
20'-22' 13.2
22'-24' 0.0890
24'-24.5' 0.00400
25'-27' 0.920
27'-28.5' 0.132

PEB-1
08/2014
0'-1' 0.660

JF-DGP5
03/2012
0'-2' 0.410
5'-7' 1.90
10'-12' 0.0840J
12'-14' 0.0320J
14'-14.5' 0.0420J
15'-17' 0.0960
17'-19' 0.208
19'-19.8' 0.670
20'-21.25' 1.30
25'-27' 0.770
27'-27.5' 0.342

JF-DGS2
03/2012
5'-7' 0.00760
10'-12' 1.00
15'-17' 0.320
20'-22' <0.00370J

T2B4
01/2011
3'-5' 1.54
18'-20' 274
23'-25' 72.0
27'-28.3' 0.400
30'-32' 0.520
32'-32.3' 0.390
35'-37' 0.560
37-39' 0.0900
40'-42' 2.40

T2B3
01/2011
2'-4' 0.0850
8'-10' <0.00390
13'-15' <0.00390

T3B4
01/2011
3'-5' 0.830
13'-15' 0.0270
23'-25' 0.00450

JF-DGS3
03/2012
5'-7' 0.00880
10'-12' 0.00990
15'-17' 0.0600
20'-22' 0.0500
24'-24.8' <0.00380J
30'-32' <0.00360J

SB-07247
06/2003
0'-2' 0.195J
2'-4' <0.0780
4'-6' <0.0820
6'-8' 0.0200J
8'-10' <0.0780
10'-12' <0.0930
12'-14' <0.0910
14'-16' <0.0860

SB-07246
06/2003
0'-2' 0.201
2'-4' <0.0720
4'-6' <0.0780
6'-8' 0.139J
10'-12' <0.0890
12'-14' <0.0950
14'-16' <0.0910

T2B2
01/2011
3'-5' <0.00390
8'-10' <0.00490
13'-15' <0.00400

SB-07234
06/2003
0'-2' 0.0820J
2'-4' <0.0750
4'-6' <0.0800
6'-8' <0.0870
8'-10' <0.0780
10'-12' 0.107
12'-14' <0.0860
14'-16' <0.0840

T3B2
01/2011
3'-5' <0.00380
8'-10' <0.00390
13'-15' 0.0540

T2B1
01/2011
3'-5' <0.00400
8'-10' <0.00390
13'-15' <0.00390

SB-2020-014
11/2020
1.5' 0.00290J
7.0' 0.00350J
11.0' 0.0688J*
18' <0.00160
23' <0.00160

PEB-2
08/2014
0'-1' 0.191

SB-07245
06/2003
0'-2' 0.0720
2'-4' <0.0850
4'-6' <0.0770
6'-8' <0.0750
8'-10' <0.0850
10'-12' <0.0790
12'-14' <0.0230J
14'-16' 0.0470

SB1
08/2004
0'-2' 0.196
2'-4' 0.00700J
4'-6' 0.00350J
6'-8' 0.00568J
8'-10' 0.00570
10'-12' <0.0136

SB-07228
06/2003
0'-2' 0.100
2'-4' 0.200
4'-6' <0.0760
6'-8' <0.0890
8'-10' <0.0900
10'-12' 0.100
12'-14' 0.0340J
14'-16' <0.0850

PL2-JF04A
02/2005
6'-8' <0.0460
8'-10' <0.0460
10'-12' <0.0450
12'-14' <0.0440
14'-16' <0.0440
16'-18' <0.0430

SB-2021-049
10/2021
1' 0.615D
2.2' 12.2J,D
6.5' 0.304D
7.5' 0.0412J*

SB-2021-048
10/2021
1.5' 0.620JH*
2.2' 9.87D
6' 0.0499D
8.5' 0.00780J*

SB-2021-018
01/2021
1.5' 0.129
2.5' 0.185
5.5' 1.10
7.2' 0.0298
8.2' 0.0355

SB-2021-050
10/2021
0.5' 0.0385
2.5' 447D
6.5' 0.539D
7.5' 0.0440

SB-07206
09/1995
2'-3' <0.0450
8'-9' <0.0450
12.5'-13.5' <0.0490

SB-2021-019
01/2021
0.8' 0.602
2.5' 0.184
5' 0.0601
7' 0.0166P1

T3B1
01/2011
3'-5' <0.00390
8'-10' <0.00390
13'-15' 0.0370

SB-07202
09/1994
1.75-2.75' <0.0730
5'-6.5' <0.0350
7.5'-8.5' <0.0370
12.5'-14' <0.0450

SB-07202
09/1994
1.75-2.75' <0.0730
5'-6.5' <0.0350
7.5'-8.5' <0.0370
12.5'-14' <0.0450

SB-07232r
02/2005
6'-8' <0.0370
8'-10' <0.0470
10'-12' <0.0490
12'-14' <0.0460
14'-16' <0.0880Y

SB-07233r
02/2005
6'-8' <0.220Y
8'-10' <0.220Y
10'-12' <0.0460
12'-14' <0.0440
14'-16' <0.0440

SB-07230r
02/2005
6'-8' <0.0360
8'-10' <0.0400
10'-12' <0.0480
12'-14' <0.0450
14'-16' <0.0440

SB-2021-052
10/2021
0.1' 0.0593J*
2.4' 0.00940J*
6' 0.000700J
7.7' 0.00470

SB-2021-020
01/2021
1' 0.00930
1.5' 0.0314
2.2' 144
6' 0.0403

SB-07229r
02/2005
6'-8' <0.0640
8'-10' <0.0360
10'-12' <0.0470
12'-14' <0.0450
14'-16' <0.0440

SB-07220
06/2003
0'-2' 0.220
2'-4' <0.0850
4'-6' <0.0860
6'-8' 0.0830J
8'-10' 0.132
10'-12' 0.0240J
12'-14' <0.0880
14'-16' <0.0860

OA11-DP10
06/2016
2'-4'e 599
6'-8'e 38.8
8'-10' 0.0406J

SB-2021-054
10/2021
0.5' 0.209
2.5' 0.00490J
5.9' 0.00500
7' 0.0235

OA11-DP09
06/2016
2'-4'e 630
4'-6'e 344
6'-8'e 0.143
8'-10' 0.0611

OA11-ex-S1
09/2016
4.25' 64.6

JF-DP02
04/2017
0'-2' 0.841
2'-4' 0.181
4'-6' 7.51J
6'-8' 70.5
8'-10' 137
10'-12' 7.04

OA11-ex-S7
09/2016
3.6' 486
6' 762

OA11-ex-S2
09/2016
4' 91.4

OA11-ex-S8
09/2016
3' 21.9
6' 22.4

JF-DP04
04/2017
0'-2' 24.9
2'-4' 202
4'-6' 131
6'-8' 0.337

JF-DP10
04/2017
2'-4' 0.0163J
4'-6' 0.349

SB-2021-056
10/2021
1' 0.585D
2.5' 12.8D
5.5' 0.169J*
7.7' 0.0145

JF-DP12
04/2017
4'-6' 0.103
6'-8' <0.0182

JF-DP07
04/2017
0'-2' 2.00
2'-4' 5.97
4'-6' 35.5
6'-8' 14.2
8'-10' 1.58

JF-DP03
04/2017
0'-2' 0.417
2'-4' 114
4'-6' 193
6'-8' 0.889

JF-DP09
04/2017
4'-6' 0.0776J
6'-8' <0.0183
8'-10' <0.0136

OA11-DP11
06/2016
2'-4'e 183
6'-8'e 826
8'-10' 7.02
10'-12' 3.50

JF-DP05
04/2017
0'-2' 0.406
2'-4' 20.1J
4'-6' 6.57J
6'-8' 0.0179

OA11-ex-S10
09/2016
2' 0.278

SB-2021-021
01/2021
1.5' 0.0649
2.5' 0.00210J*
5.2' 0.267
7' <0.00150

JF-DP08
04/2017
0'-2' 0.194
2'-4' 28.7
4'-6' 20.9
6'-8' 0.0340J

JF-DP06
04/2017
0'-2' 1.03
2'-4' 0.0393
4'-6' 13.6
6'-8' 0.0123J

SB-2021-057
10/2021
0.8' 0.208J*
2.4' 19.0D
5.5' 2.80D
7.5' 0.00420

SB-07249
02/2005
0'-2' 0.200
2'-4' <0.0390
4'-6' <0.0440
6'-8' <0.0440
8'-10' <0.0400
10'-12' <0.0430
12'-14' <0.0440
14'-16' <0.0440

SB-2021-025
01/2021
1.5' 0.00980J
2.5' 0.0695
5.5' 0.607
6.5' 0.0702
10' 0.129J*
11' 0.00340J

SB-2021-023
01/2021
1.5' 0.00190J
2.7' 0.00180J
5.5' 0.0272
7' 0.00120J

SB-2021-053
10/2021
2.8' 988D
1' 0.494D
11' 1.10D
13' 0.00940J

SB-2021-024
01/2021
0.5' 0.114P1
2.4' 0.00160J
5.6' 0.000700J
7' 0.00330J

SB-07252
02/2005
0'-2' 0.490
2'-4' <0.0320

SB-07249
02/2005
0'-2' 0.200
2'-4' <0.0390
4'-6' <0.0440
6'-8' <0.0440
8'-10' <0.0400
10'-12' <0.0430
12'-14' <0.0440
14'-16' <0.0440

SB-2020-015
11/2020
1.0' 0.283
7.0' <0.00150
13.0' <0.00160

SB-2021-055
10/2021
0.5' 0.603D
2.2' 0.00270J
5.5' 0.0312
7.5' 0.00120J

SB-07206
09/1995
2'-3' <0.0450
8'-9' <0.0450
12.5'-13.5' <0.0490

SB-2021-026
01/2021
1.5' 0.0128
3' 0.00140J
5.5' 0.000800J
7' <0.00160

SB-07231r
02/2005
6'-8' <0.0360
8'-10' <0.0390
10'-12' <0.0460
12'-14' <0.0440
14'-16' <0.0440

SB-2021-022
01/2021
1.5 0.0232
2.5 0.00940
5.5 <0.00150
7 <0.00150

JF-DP11
04/2017
2'-4' <0.0177
4'-6' 0.0482

SB-07253
02/2005
0'-2' 0.130
2'-4' <0.0320
4'-6' <0.0320
6'-8' <0.0330
8'-10' <0.0330
10'-12' <0.0320

SB-07250
02/2005
0'-2' 1.14J
2'-4' 3.00
4'-6' 0.110
6'-8' <0.0450
8'-10' 0.500
10'-12' <0.0400
12'-14' <0.0430
14'-16' <0.0440

N
W E
S
0 30
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*
3/2012 *Sample Date*
2'-4' 220 *Depth : Result*
2'-4' 220 *Depth : Result (Detected)*
4'-6' 820 *Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220 *Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Approximate Area LNAPL Plume
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the soil preliminary cleanup level based on bank erosion (PCUL).
4. The PCUL for total PCB aroclors is 0.13 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

TOTAL PCB AROCLORS IN SOIL

September 2024 | 21-1-12596-040

SHANNON & WILSON | FIG. 32A-1

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_PCB_32A-1_20240817.mxd Date: 9/12/2024 KAC

PL2-JF01A
09/1995 <1.00
11/1995 <1.00
03/1996 <1.00
05/1996 <1.00
08/1996 <1.00
11/1996 <1.00
02/2005 <0.0300Y

PL2-JF01AR
06/2003 <0.0200
07/2006 <0.0100
08/2006 <0.0100
08/2007 0.0140

PL2-JF01C
08/2007 <0.0100

PL2-JF01B
08/2007 <0.0100

MW-5
04/2003 <0.0478

MW-69
02/2021 <0.0190
05/2021 <0.00300
08/2021 <0.00300
12/2021 <0.00300

MW-70
02/2021 <0.0190
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

PL2-JF04A
02/2005 <0.0500Y
08/2006 <0.0150Y

MW-51
03/2017 <0.0100
08/2017 <0.147
02/2018 <0.147
02/2021 <0.0180 J*
05/2021 <0.00300
08/2021 <0.00300
12/2021 <0.00300

MW-50
08/2017 <0.147
02/2018 <0.147
02/2021 <0.0180
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

MW-52
08/2017 <0.147
02/2018 <0.147
02/2021 <0.0180
05/2021 <0.00300
08/2021 <0.00300
12/2021 <0.00300

MW-66
02/2021 <0.0210
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

MW-71
02/2021 <0.0180
05/2021 <0.00300
08/2021 <0.00300J*
11/2021 <0.00300

MW-24
04/2003 <0.0478Z
08/2017 <0.147
02/2021 <0.0500
05/2021 <0.00300
08/2021 <0.00300
12/2021 <0.00300

MW-49
08/2017 <0.147

MW-23
03/2017 <0.0100
02/2021 <0.0190
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

MW-25
04/2003 <0.0475

MW-48
03/2017 <0.0100

PL2-JF02A
04/2003 <0.0476
06/2003 <0.0200
08/2007 <0.0100

MW-65
02/2021 <0.0180
05/2021 <0.00300
09/2021 <0.00300
11/2021 <0.00300

MW-30
08/2017 <0.147

MW-53
02/2021 <0.0180
05/2021 <0.00300
09/2021 <0.00300
12/2021 <0.00300

MW-31
05/1993 <0.0520
04/2003 <0.0476
11/2021 <0.00300

MW-10R
02/2021 <0.0180
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

MW-47
08/2017 <0.147
02/2018 <0.147
02/2021 <0.0180
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

PL2-JF03A
04/2003 <0.0477

MW-75
02/2021 <0.0180
05/2021 <0.00300
08/2021 <0.00300

MW-62
02/2021 <0.0190
05/2021 <0.00300
08/2021 <0.00300

MW-45
02/2018 <0.147
02/2021 <0.0190
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

MW-54
02/2021 <0.0190
05/2021 <0.00300
08/2021 <0.00300
12/2021 <0.00300

MW-6
04/2003 <0.0478
06/2003 0.410
01/2008 <0.0490
08/2017 <0.147
02/2018 <0.147
02/2021 <0.0200
05/2021 <0.00300
09/2021 <0.00300
11/2021 <0.00300

MW-63
02/2021 <0.0180
05/2021 <0.00300
09/2021 <0.00300
11/2021 <0.00300

MW-41
08/2017 <0.147

MW-60
02/2021 <0.0180
05/2021 <0.00300
09/2021 <0.00300
11/2021 <0.00300

MW-13
09/1992 <0.100

MW-15
04/2003 <0.0476

MW-72
02/2021 <0.0180
11/2021 <0.00300

MW-42
08/2017 <0.147
02/2018 <0.147
02/2021 <0.0190
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

MW-43
08/2017 <0.147
02/2018 <0.147
02/2021 <0.0180
05/2021 <0.00300
08/2021 <0.00300

MW-44
08/2017 <0.147
02/2018 <0.147
02/2021 <0.0190
05/2021 <0.00300
08/2021 <0.00300

MW-64
02/2021 <0.0180
05/2021 <0.00300
09/2021 <0.00300
11/2021 <0.00300

MW-36
04/2003 <0.0478

MW-32
08/2017 <0.147

MW-39
08/2017 <0.147
02/2021 <0.0180
05/2021 0.00300J
08/2021 <0.00300
11/2021 0.00400J

MW-68
02/2021 <0.0180
08/2021 <0.00300J*
11/2021 0.00300 J

MW-67
02/2021 <0.0180
05/2021 <0.00300
08/2021 <0.00300
12/2021 <0.00300

MW-7
04/2003 <0.0477
06/2003 <0.0200Y

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections have been screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). Detection limits (when not detected) have been screened against the laboratory reporting limit (RL) from the QAPP.
4. The PCUL for total PCB aroclors is 0.000007 µg/L. The RL for total PCB aroclors is 0.01 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

TOTAL PCB AROCLORS IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 32B

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Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC

JF-DGP2
03/2012
0'-10' 0.00900J
10'-20' 0.0442
20'-30' <0.0190

T2B4
01/2011
3'-5' 0.127
18'-20' <0.120
23'-25' <0.0620

T3B2
01/2011
3'-5' <0.0600
8'-10' <0.0660
13'-15' <0.0610

T2B1
01/2011
3'-5' <0.0660
8'-10' <0.0620
13'-15' <0.0620

JF-DGP5
03/2012
0'-10' 0.0100J
10'-20' 0.00590J
20'-30' <0.0550

T2B3
01/2011
2'-4' <0.0640
8'-10' <0.0600
13'-15' <0.0650

MW-70
02/2021
15' 0.000285
0' 0.0142
4.3' 0.00992
8' 0.00248

PEB-1
08/2014
0'-1' 0.630

T3B4
01/2011
3'-5' 0.127
13'-15' <0.180
23'-25' <0.0630

SB-2020-014
11/2020
1.5' 0.00456
7.0' 0.000958
11.0' 0.00117
18' 0.000210
23' 0.00244

T3B1
01/2011
3'-5' <0.0640
8'-10' <0.0600
13'-15' <0.0620

SB-2020-015
11/2020
1.0' 0.0123
7.0' <0.000490
13.0' <0.000690

T3B3
01/2011
3'-5' <0.0640
8'-10' <0.0630
13'-15' <0.0620

SB-2021-041
01/2021
2' 0.0000872
6' 0.000409
10.5' 0.000809
13.3' 0.000163
11' 0.00218

PEB-3
08/2014
0'-1' 0.0302

T2B2
01/2011
3'-5' 0.301
8'-10' 0.822
13'-15' <0.0650

SB-2020-016
11/2020
2.0' <0.000790
7.0' 0.00219
12.0' <0.000750

PEB-4
08/2014
0'-1' 0.226

SB-2020-005
11/2020
6.0' 0.0131
1.0' 0.000999
12.0' 0.000534
20' 0.0396

PEB-2
08/2014
0'-1' <0.0580

JF-SB3NSW-6
09/2013
1' <0.00300

MW-65
02/2021
2' 0.00258

SB-2020-007
11/2020
1.2'-2.8' 0.00114
6.0'-7.0' 0.00752
10.0'-10.9' 0.0118
20.0'-21.4' 0.00759
23'-24.6' 0.00683

SB-2021-065
02/2021
11.9' 0.00796
13' 0.00784

JF-SB3BA1-6
09/2013
2.5'e 0.0363

MW-53
02/2021
1' 0.00815
9.5' 0.00917
11' 0.00762
15.8' 0.00499

PEB-5
08/2014
0'-1' <0.0190

MW-54
02/2021
1' 0.0124
5.5' 0.0136
9' 0.000750

JF-SB4NSW-9
09/2013
4' 0.433

SB-2020-013
11/2020
6.0' 0.00331
1.5' 0.0164
11.5' 0.00325
20.5' 0.0335
23' 0.00465

JF-SB4BA2-9
09/2013
6' 0.436

PEB-6
08/2014
0'-1' 0.0908

SB-2020-008
11/2020
2.0' 0.00171
5.5' 0.00422
11.5' 0.00233
20' 0.00458

SB-2021-040
01/2021
2' 0.00682
5' 0.00284
10.4' 0.00541
13.7' 0.0000930

SB-2021-010
01/2021
1.5' 0.00219
6' 0.00173
11' 0.000315

SB-2021-011
01/2021
1' 0.0178
3' 0.0880
10' 0.00539

MW-67
01/2021
0.5' 0.0160
5.5' 0.0413
9' 0.000479
16' <0.00995
20.5' <0.0100

SB-2021-068
01/2021
1' 0.0424
5.5' 0.0456

MW-68
02/2021
8.5' 0.00461
15.5' 0.000715

MW-66
01/2021
1.2' 0.00312
5.5' 0.000154
10' 0.00273

SB-2021-017
01/2021
2' 0.0148
5' 0.000232
10.5' 0.000645

MW-71
02/2021
1.5' 0.0140
5' 0.00353
8.5' 0.00418
15.5' 0.000213

SB-08918
09/1994
2' <0.0720
5' <0.0800
12.5' <0.0870

SB-2021-043
01/2021
9.5' 0.000531

SB-2021-042
01/2021
11' 0.00141

SB-2021-044
02/2021
12' 0.00965

MW-55
02/2021
1.5' 0.000683
5.5' 0.00603
9.5' 0.0229
15.5' 0.00522

SB-2021-046
01/2021
2' 0.000450
5.6' 0.00973
7' 0.00975
13.9' 0.000165

MW-59
02/2021
1' 0.0241
6.5' 0.00116
9.5' 0.00428

MW-58
01/2021
1.5' 0.00250
5.5' 0.000423
8.4' 0.00303
15' 0.000238

MW-22R
02/2021
1' 0.00297
5.5' 0.0135
9' 0.00989
15.5' 0.00704
20.5' 0.000487

MW-76
01/2021
1.5' 0.000207
5' 0.0147
15.5' 0.00243

SB-2020-001
11/2020
2.2' 0.00481
6.8' 0.00112

MW-57
01/2021
5' 0.00933
6' 0.0000694
10' 0.0191
15.3' 0.00156

SB-2021-002
01/2021
3' 0.0116
6' 0.000328

SB-2020-028
11/2020
2.3' 0.00671
6.8' 0.000189

MW-56
02/2021
1' 0.00341
5.5' 0.00562
8' 0.00655

SB-2021-027
01/2021
2..2' 0.00256
5.3' 0.00117
10' 0.000913

SB-2020-045
11/2020
2.8' 0.00156
7.2' 0.000212

NT-SS-13
08/2023
5' 0.172

MW-10R
02/2021
2' 0.00108
5.4' 0.000645
9' 0.00134
15' 0.000215

NT-SS-31
08/2023
6.5' <0.15

NT-SS-34
08/2023
6.5' <0.16

NT-SS-35
08/2023
6.5' 0.004

SB-2021-039
01/2021
2' 0.000123
7.4' 0.00993
10.7' 0.000689

SB-2021-009
01/2021
2' 0.000246
6' 0.000178
10.8' 0.0000930

SB-2020-004
11/2020
2.5' 0.00640
8.0' 0.00908
13.0' 0.000115
17.0' 0.000203
21.0' 0.000698
27.0' 0.000172

MW-62
01/2021
1' 0.00106
5' 0.000131
8.6' 0.0208
15' 0.000307

SB-2020-029
11/2020
3.2' 0.00754
7.5' 0.000197

NT-SS-18
08/2023
5' 0

SB-2021-003
01/2021
2' 0.00885
10.3' 0.00124
11.5' 0.000214

NT-SS-17
08/2023
5' 0.003

NT-piping-SS-24
08/2023
2' 0.012

MW-41
07/2008
5' <0.00680
10' <0.00700
20' <0.00790
30' <0.00870

SB-2021-038
01/2021
2' 0.00348
6.9' 0.000758
7.6' 0.00709
12.9' 0.0000860

MW-61
02/2021
1.5' 0.00306
6' 0.000474
11' 0.0000917

MW-73
02/2021
3.2' 0.0112
7' 0.00302
11' 0.00108
15' 0.000364
17.7' <0.000100

MW-72
02/2021
1' <0.00650
5' <0.00650
10.9' <0.00650

MW-64
01/2021
5.2' 0.00179
9' 0.0000880
14' 0.000109

MW-60
02/2021
1.5' 0.00152
5' 0.00227
9' 0.000684

ST-piping-SS-20
10/2023
6.5' 0.039

ST-piping-SS-22
10/2023
2' 0.83

ST-SS-7
08/2023
8.5' <0.17

SB-2021-012
01/2021
2' 0.00276
3.4' 0.00598
10.4' 0.000298

SB-2021-006
01/2021
10' 0.0958
1.5' 0.0106
6' 0.000422
20' 0.0000725

MW-74
02/2021
3' 0.00138
6' 0.000355
10.3' 0.000979

ST-piping-SS-21
10/2023
2' 0.185

ST-SS-17
08/2023
6.5' 0.095

ST-SS-15
08/2023
6.5' 0.044

ST-SS-8
08/2023
8.5' <0.17

SB-2021-047
02/2021
1.5' 0.000153
7.1' 0.00405
10.5' 0.000117

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*
3/2012 *Sample Date*
2'-4' 220 *Depth : Result*
2'-4' 220 *Depth : Result (Detected)*
4'-6' 820 *Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220 *Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the soil preliminary cleanup level based on direct contact (PCUL).
4. The PCUL for total cPAH TEQ is 0.19 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

TOTAL CPAH TEQ IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 33A

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/12/2024 KAC

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MW-5
01/2008 <0.00960
02/2009 <0.00990
05/2009 <0.00950
08/2009 <0.00980
12/2009 <0.00990

PL2-JF01AR
08/2007 <0.100
01/2008 <0.00960
02/2008 <0.100

PL2-JF01C
08/2007 <0.100
01/2008 0.00783

PL2-JF01B
08/2007 <0.100
01/2008 <0.00960

MW-70
02/2021 <0.00300
05/2021 <0.00300
08/2021 0.00194
11/2021 <0.0100

PL2-JF04A
01/2008 <0.00950

MW-51
08/2017 <0.0700
02/2018 <0.0700
02/2021 <0.0700

MW-52
08/2017 <0.0700
02/2018 <0.0900
02/2021 <0.00300
05/2021 <0.00300
08/2021 <0.00300
12/2021 <0.0100

MW-50
08/2017 <0.0700

PL2-JF02A
08/2007 <0.100
01/2008 <0.00970
02/2008 <0.100

MW-53
02/2021 <0.00300
05/2021 <0.00300
09/2021 <0.00300
12/2021 <0.0100

MW-47
02/2009 <0.00990
05/2009 <0.00950
08/2009 <0.00950
12/2009 <0.00970
02/2018 <0.0900
02/2021 <0.0700
05/2021 <0.0700
08/2021 <0.0700
11/2021 <0.0700

MW-54
02/2021 <0.00400
05/2021 <0.00300
08/2021 <0.00300
12/2021 <0.0100

MW-6
01/2008 <0.0100

MW-43
02/2009 <0.00990
05/2009 <0.00950
08/2009 <0.00970
12/2009 <0.00970

MW-44
02/2009 <0.0100
05/2009 <0.00940
08/2009 <0.00970
12/2009 <0.00980

MW-42
02/2009 <0.00990
05/2009 <0.00950
08/2009 <0.00960
12/2009 <0.00970

MW-39
02/2009 <0.00980
05/2009 <0.00950
08/2009 <0.00950
12/2009 <0.00980

MW-68
02/2021 <0.0700
08/2021 <0.0700
11/2021 <0.0337

MW-67
02/2021 <0.0700
05/2021 <0.0700
08/2021 <0.0700
12/2021 <0.0700

MW-65
02/2021 <0.00300
05/2021 <0.00300
09/2021 <0.00300
11/2021 <0.00300

MW-66
02/2021 <0.00300
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

MW-71
02/2021 <0.00300
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

MW-76
02/2021 <0.00300
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

MW-46
02/2009 <0.00990
05/2009 <0.00950
08/2009 <0.00970
12/2009 <0.00950
08/2017 <0.0700
02/2018 <0.0700
02/2021 <0.00300
05/2021 0.00138
08/2021 <0.00300
11/2021 0.00145

MW-38
02/2009 <0.0100
05/2009 <0.00950
08/2009 <0.0100
12/2009 <0.00960

MW-25
01/2008 <0.00970
02/2009 <0.0100
08/2017 <0.0900
02/2018 <0.0900
02/2021 <0.00300
05/2021 <0.00300
08/2021 0.00140
11/2021 <0.00300

MW-24
01/2008 <0.00960
02/2009 <0.0100
08/2017 <0.0700
02/2018 <0.0700
02/2021 <0.00300

MW-55
02/2021 <0.00300
08/2021 <0.00300
11/2021 0.00193

MW-48
02/2009 <0.00950
05/2009 <0.00950
08/2009 <0.00970
12/2009 <0.00960

MW-56
02/2021 <0.00300
05/2021 <0.00300
08/2021 <0.0100
11/2021 0.00133

MW-31
01/2008 <0.00980
02/2009 <0.0100
08/2017 <0.0700
02/2018 <0.0700
02/2021 <0.00300
05/2021 <0.00300
08/2021 0.00139
11/2021 <0.00400

MW-45
02/2009 <0.0100
05/2009 <0.00950
08/2009 <0.0100
12/2009 <0.00970

MW-40
02/2009 <0.00940
05/2009 <0.00950
08/2009 <0.00980
12/2009 <0.00970
02/2018 <0.0700
02/2021 <0.00300
05/2021 <0.00300
09/2021 <0.00300
11/2021 <0.00300

MW-41
02/2009 <0.0100
05/2009 <0.00950
08/2009 <0.00990
12/2009 <0.00990
08/2017 <0.0700
02/2018 <0.0700
02/2021 <0.00300
05/2021 <0.00300
09/2021 0.00139

MW-30
01/2008 <0.00970
08/2017 <0.0700

MW-75
02/2021 <0.0700
05/2021 <0.0700
08/2021 <0.0700

MW-57
02/2021 <0.00300
05/2021 <0.00300
08/2021 <0.00300
11/2021 <0.00300

MW-59
02/2021 <0.00300
05/2021 <0.00300
08/2021 0.00151
11/2021 <0.0100

MW-23
01/2008 <0.00950
02/2009 <0.0100
08/2017 <0.0900

MW-58
02/2021 <0.00300
05/2021 <0.00300
08/2021 0.00147

MW-9
01/2008 <0.00980
08/2017 <0.0900

MW-4
01/2008 <0.00990

MW-3
01/2008 <0.00990

MW-8
01/2008 <0.00990
02/2009 <0.0100

MW-10
02/2008 0.150

MW-10R
02/2021 <0.00300
05/2021 <0.00300
08/2021 <0.00300
11/2021 0.00132

MW-11
01/2008 <0.00980
02/2009 <0.0100

MW-62
02/2021 <0.00300
05/2021 0.00132
08/2021 <0.00300

MW-14
02/2008 <0.00970
02/2009 <0.0100
08/2017 <0.0700
02/2018 <0.500

MW-15
01/2008 <0.00990
08/2017 <0.0900

MW-72
02/2021 <0.00300
05/2021 <0.0700
08/2021 <0.0700
11/2021 <0.0700

MW-61
02/2021 <0.00300
05/2021 <0.00300
09/2021 <0.00300
12/2021 0.00460

MW-60
02/2021 0.0104
05/2021 <0.00300
09/2021 <0.00300
11/2021 <0.00300

MW-63
02/2021 <0.0700
05/2021 <0.0700
09/2021 <0.0700
11/2021 <0.0700

MW-64
02/2021 <0.00300
05/2021 0.00168
09/2021 <0.00300
11/2021 0.00138

MW-34
02/2008 <0.00950

MW-73
02/2021 <0.00300
05/2021 0.00135
08/2021 0.00155
11/2021 <0.0100

MW-74
02/2021 <0.00300
05/2021 <0.00300
09/2021 <0.00300
11/2021 <0.00300

MW-37
02/2009 <0.0100
05/2009 <0.00950
08/2009 <0.00970
12/2009 <0.00950
08/2017 <0.0700
02/2018 <0.0900
02/2021 <0.00300
05/2021 <0.00300
09/2021 <0.00300
12/2021 <0.0100

MW-36
02/2008 <0.00980
02/2009 <0.00970

MW-32
02/2008 <0.00980
02/2009 <0.0100
08/2017 <0.0700
02/2018 <0.0700
02/2021 <0.00300
05/2021 <0.00300
08/2021 <0.00300
12/2021 <0.0100

MW-7
02/2008 <0.00990
02/2009 <0.0100

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections have been screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). Detection limits (when not detected) have been screened against the laboratory reporting limit (RL) from the QAPP.
4. The PCUL for total cPAH TEQ is 0.000016 µg/L. The RL for total cPAH TEQ is 0.01 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

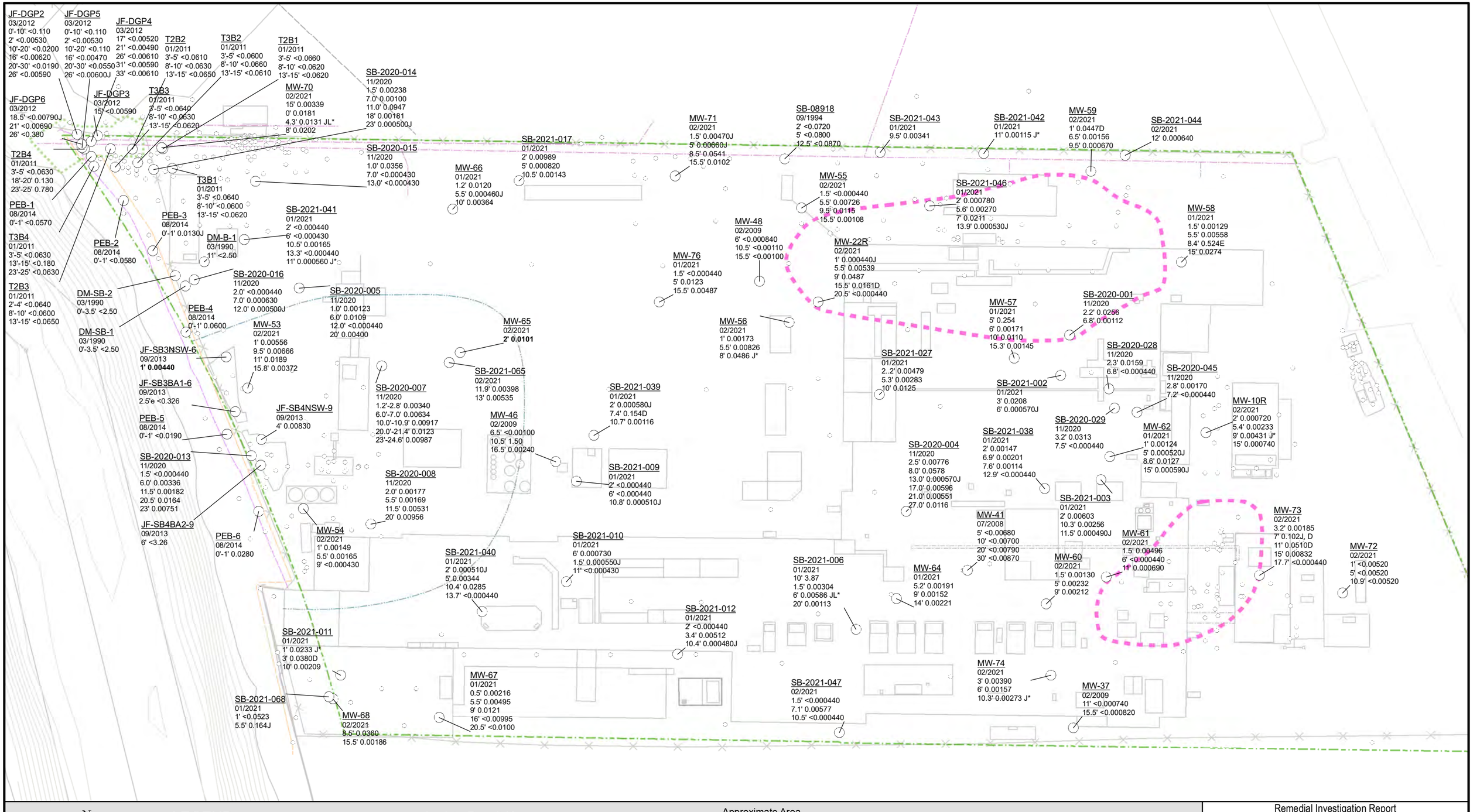
TOTAL CPAH TEQ IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON

FIG. 33B

DRAFT FOR PUBLIC COMMENT



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*
3/2012 *Sample Date*
2'-4' 220 *Depth : Result*
2'-4' 220 *Depth : Result (Detected)*
4'-6' 820 *Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220 *Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the soil preliminary cleanup level based on direct contact (PCUL).*
4. The PCUL for naphthalene is 1,600 mg/kg.

*Direct contact PCUL selected because the PCUL based on bank erosion (2.1 mg/kg) is exceeded at only one location (SB-2021-006), which is not within the proximity of the top of bank.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

NAPHTHALENE IN SOIL

November 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 34A

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 11/12/2024 KAC

PL2-JF01B
08/2007 <0.100
01/2008 <0.0960

MW-69
02/2021 11.8

MW-70
02/2021 0.0280 JH*
05/2021 <0.0100 B*
08/2021 0.135
11/2021 <0.0100 B*

PL2-JF01AR
08/2007 <0.100
01/2008 <0.0960
02/2008 <0.100

PL2-JF04A
01/2008 0.490

MW-51
05/2009 <1.00
12/2009 <1.00
08/2017 <0.0200
02/2018 <0.0300
02/2021 <0.0300

PL2-JF01C
08/2007 <0.100
01/2008 <0.0940

MW-5
01/2008 <0.0960
02/2009 0.150
05/2009 <0.0950
08/2009 <0.0980
12/2009 <0.0990

MW-50
05/2009 <1.00
12/2009 <1.00
08/2017 <0.0200

MW-52
05/2009 <1.00
12/2009 <1.00
08/2017 <0.0200
02/2018 1.07
02/2021 <0.0100 B*
05/2021 <0.0100 B*
08/2021 <0.0100 B*
12/2021 <0.0100 B*

PL2-JF02A
08/2007 <0.100
01/2008 <0.0970
02/2008 <0.100

MW-53
02/2021 0.00300J
05/2021 <0.00100
09/2021 <0.0100 B*
12/2021 <0.0100 B*

MW-47
02/2009 <0.0990
05/2009 <0.0950
08/2009 <0.0950
12/2009 <0.0970
02/2018 <0.0200
02/2021 <0.0300
05/2021 <0.0300
08/2021 <0.0300
11/2021 <0.0300

MW-54
02/2021 0.00400J
05/2021 <0.0100 B*
08/2021 <0.0100B*
12/2021 <0.0100 B*

MW-44
02/2009 <0.100
05/2009 <0.0940
08/2009 <0.0970
12/2009 <0.0980

MW-6
01/2008 <0.100

MW-43
02/2009 <0.0990
05/2009 <0.0950
08/2009 <0.0970
12/2009 <0.0970

MW-42
02/2009 <0.0990
05/2009 <0.0950
08/2009 <0.0960
12/2009 <0.0970

MW-39
02/2009 <0.0980
05/2009 <0.0950
08/2009 <0.0950
12/2009 <0.0980

MW-68
02/2021 <0.0300
08/2021 <0.0300
11/2021 <0.0300

MW-67
02/2021 <0.0300
05/2021 <0.0300
08/2021 <0.0300
12/2021 <0.0300

MW-66
02/2021 <0.0100 B*
05/2021 <0.0100 B*
08/2021 0.00200J
11/2021 <0.0100B*

MW-71
02/2021 0.00500J
05/2021 <0.0100 B*
08/2021 <0.0100B*
11/2021 <0.0100B*

MW-65
02/2021 <0.0100 B*
05/2021 0.00800 JH*
09/2021 <0.0100 B*
11/2021 <0.0100B*

MW-76
02/2021 0.00400J
05/2021 <0.0100 B*
08/2021 <0.0100B*
11/2021 <0.00100 B*

MW-46
02/2009 28.0
05/2009 75.0
08/2009 15.0
12/2009 97.0
08/2017 1.30
02/2018 1.81
02/2021 27.6D, B
05/2021 4.09E
08/2021 <0.0100B*
11/2021 0.342

MW-25
12/2004 0.0449JB
01/2008 <0.0970
02/2009 <0.100
05/2009 <1.00
12/2009 <1.00
08/2017 <0.0200
02/2018 <0.0200
02/2021 <0.0100 B*
05/2021 <0.00100 B*
08/2021 0.00400J
11/2021 <0.0100B*

MW-55
02/2021 <0.0100 B*
08/2021 0.00400J
11/2021 <0.00100 B*

MW-24
01/2008 <0.0960
02/2009 <0.100
05/2009 <1.00
12/2009 <1.00
08/2017 <0.0200
02/2018 <0.0300
02/2021 <0.0100 B*

MW-49
02/2009 <1.00
02/2009 <1.00
05/2009 <1.00
12/2009 <1.00

MW-59
02/2021 <0.0100 B*
05/2021 <0.0100 B*
08/2021 <0.0100 B*
11/2021 <0.0100 B*

MW-23
12/2004 <1.00
01/2008 <0.0950
02/2009 <0.100
05/2009 <1.00
12/2009 <1.00
08/2017 <0.0200

MW-58
02/2021 0.00700J
05/2021 9.70D
08/2021 2.62D

MW-9
01/2008 <0.0980
08/2017 <0.0200

MW-48
02/2009 <1.00
02/2009 <0.0950
05/2009 <0.0950
08/2009 <0.0970
12/2009 <0.0960

MW-56
02/2021 <0.0100 B*
05/2021 <0.00100 B*
08/2021 <0.0100 B*
11/2021 <0.0100 B*

MW-30
01/2008 <0.0970
08/2017 <0.0200

MW-57
02/2021 0.00900J
05/2021 <0.0100B*
08/2021 <0.0100 B*
11/2021 <0.0100B*

MW-31
12/2004 0.0475JB
01/2008 <0.0980
02/2009 <0.100
08/2017 <0.0200
02/2018 0.450
02/2021 <0.0500 B*
05/2021 <0.0100 B*
08/2021 <0.0100 B*
11/2021 <0.00100 B*

MW-45
02/2009 <0.100
05/2009 <0.0950
08/2009 <0.100
12/2009 <0.0970

MW-75
02/2021 <0.0300
05/2021 <0.0300
08/2021 <0.0300

MW-4
01/2008 0.300

MW-3
01/2008 <0.0990

MW-8
01/2008 <0.0990
02/2009 <0.100

MW-10
02/2008 <0.0980

MW-10R
02/2021 0.00300J
05/2021 <0.00100
08/2021 <0.0100 B*
11/2021 <0.00100 B*

MW-11
01/2008 <0.0980
02/2009 <0.100

MW-62
02/2021 0.00500J
05/2021 0.00500J*
08/2021 <0.0100 B*

MW-14
02/2008 <0.0970
02/2009 <0.100
08/2017 <0.0200
02/2018 <0.200

MW-15
01/2008 <0.0990
08/2017 <0.0200

MW-72
02/2021 <0.00100
05/2021 <0.0300
08/2021 <0.0300
11/2021 <0.0300

MW-40
02/2009 <0.0940
05/2009 <0.0950
08/2009 <0.0980
12/2009 <0.0970
02/2018 <0.0200
02/2021 <0.0100 B*
05/2021 0.00300J
09/2021 <0.0100 B*
11/2021 <0.0100B*

MW-61
02/2021 0.00400J
05/2021 <0.0100B*
09/2021 <0.0130 B*
12/2021 0.0200

MW-73
02/2021 0.00600J
05/2021 0.00500J
08/2021 <0.0100 B*
11/2021 <0.0100 B*

MW-34
02/2008 <0.0950

MW-63
02/2021 <0.0300
05/2021 <0.0300
09/2021 <0.0300
11/2021 <0.0300

MW-41
02/2009 <0.100
05/2009 <0.0950
08/2009 <0.0990
12/2009 <0.0990
08/2017 <0.0200
02/2018 <0.0200
02/2021 <0.0100 B*
05/2021 0.00800J
09/2021 0.0140 JH*

MW-64
02/2021 <0.00100
05/2021 0.00700J
09/2021 <0.0100 B*
11/2021 <0.0100B*

MW-60
02/2021 0.0290
05/2021 0.0120
09/2021 <0.0100 B*
11/2021 <0.00100

MW-36
02/2008 <0.0980
02/2009 <0.0970

MW-32
02/2008 0.320
02/2009 0.120
08/2017 <0.0200
02/2018 <0.0200
02/2021 0.00400J
05/2021 <0.00100
08/2021 <0.0100 B*
12/2021 <0.0100 B*

MW-38
02/2009 <0.100
05/2009 <0.0950
08/2009 <0.100
12/2009 <0.0960

MW-74
02/2021 0.00600J
05/2021 0.00500J
09/2021 <0.0100 B*
11/2021 <0.00100 B*

MW-37
02/2009 <0.100
05/2009 <0.0950
08/2009 <0.0970
12/2009 <0.0950
08/2017 <0.0200
02/2018 <0.0200
02/2021 0.00300J
05/2021 <0.0100B*
09/2021 <0.0100 B*
12/2021 <0.0100 B*

MW-7
02/2008 <0.0990
02/2009 <0.100

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for naphthalene is 1.4 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

NAPHTHALENE IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 34B

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC

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JF-DGP2
03/2012
0'-10' <0.130
10'-20' 0.380
20'-30' 0.0220J

T2B3
01/2011
2'-4' <0.0640
8'-10' <0.0600
13'-15' <0.0650

T2B2
01/2011
3'-5' <0.0610
8'-10' <0.0630
13'-15' <0.0650

JF-DGP5
03/2012
0'-10' <0.140
10'-20' <0.130
20'-30' 0.120

T3B2
01/2011
3'-5' <0.0600
8'-10' <0.0660
13'-15' <0.0610

T2B4
01/2011
3'-5' <0.0630
23'-25' 0.820

T2B1
01/2011
3'-5' <0.0660
8'-10' <0.0620
13'-15' <0.0620

T3B1
01/2011
3'-5' <0.0640
8'-10' <0.0600
13'-15' <0.0620

PEB-1
08/2014
0'-1' <0.140

T3B4
01/2011
3'-5' 0.590
13'-15' <0.180
23'-25' <0.0630

PEB-2
08/2014
0'-1' <0.150

T3B3
01/2011
3'-5' <0.0640
8'-10' <0.0630
13'-15' <0.0620

PEB-3
08/2014
0'-1' <0.0470

SB-08918
09/1994
2' 0.120
5' <0.0800
12.5' 0.140

MW-76
01/2021
1.5' 0.00570J
5' 0.00860J

PEB-4
08/2014
0'-1' <0.0480

JF-SB3NSW-6
09/2013
1' <0.0960

JF-SB3BA1-6
09/2013
2.5'e <0.0960

JF-SB4NSW-9
09/2013
4' <0.0960J

JF-SB4BA2-9
09/2013
6' <0.960

PEB-5
08/2014
0'-1' <0.0470

PEB-6
08/2014
0'-1' <0.0490

MW-41
07/2008
5' <0.0340
10' 0.240
20' 0.0420
30' <0.0430

MW-72
02/2021
1' <0.0288
5' <0.0287
10.9' <0.0287

SB-2021-068
01/2021
1' 0.413J
5.5' <0.288

MW-67
01/2021
0.5' <0.0249
5.5' 0.0171J
9' 0.0586
16' 0.00640J
20.5' 0.00570J

MW-68
02/2021
8.5' <0.0288

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections screened against the most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL). Detection limits (when not detected) screened against the laboratory reporting (RL) from the QAPP.
4. The PCUL for bis(2-ethylhexyl) phthalate is 0.0051 mg/kg. The RL for bis(2-ethylhexyl) phthalate is 0.05 mg/kg.

Remedial Investigation Report
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Tukwila, Washington

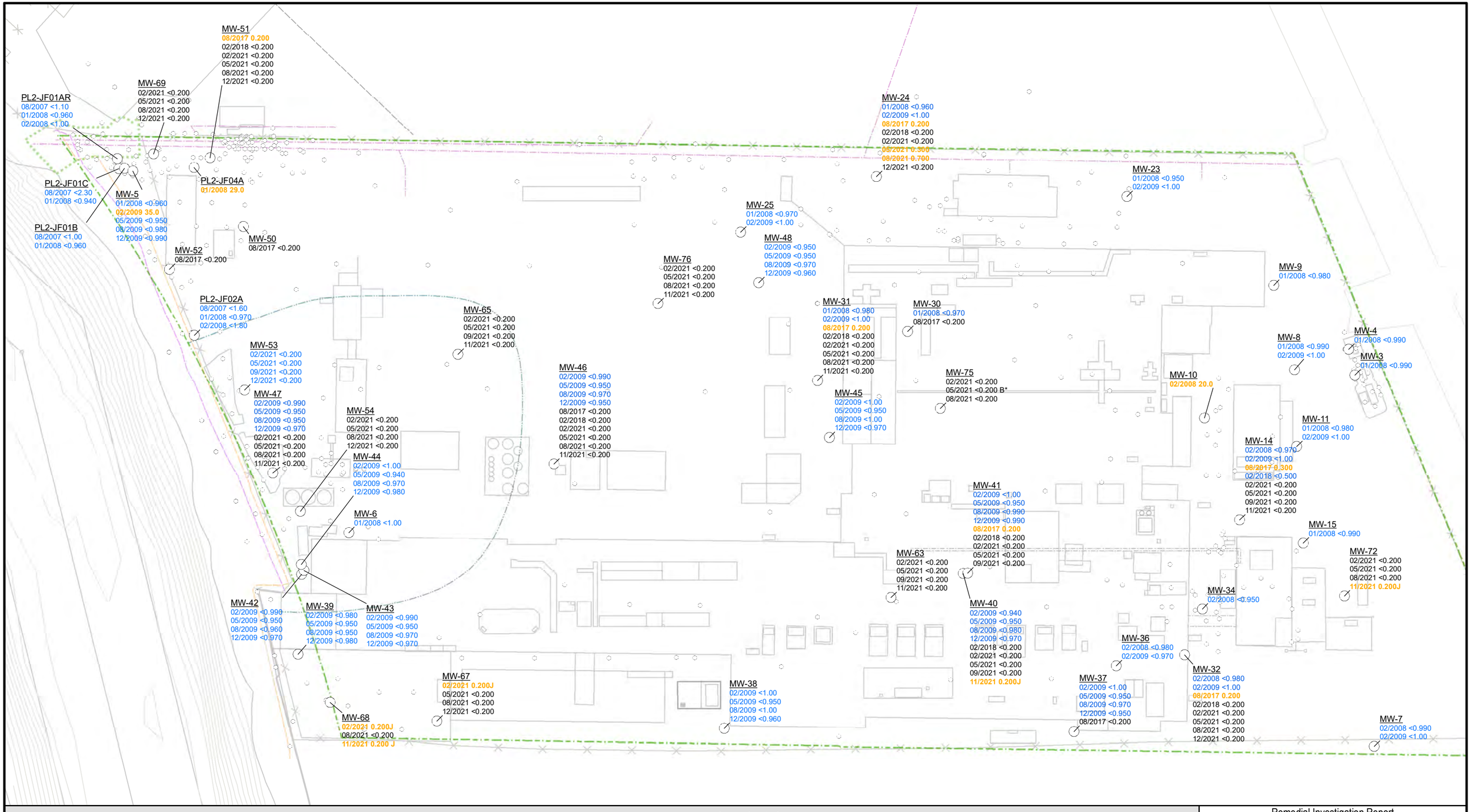
BIS(2-ETHYLHEXYL) PHTHALATE IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 35A

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N
W E
S

0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections screened against the most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL). Detection limits (when not detected) screened against the laboratory reporting (RL) from the QAPP.
4. The PCUL for bis(2-ethylhexyl) phthalate is 0.046 µg/L. The RL for bis(2-ethylhexyl) phthalate is 0.2 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

BIS(2-ETHYLHEXYL) PHTHALATE IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 35B

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC

JF-DGP2
03/2012
2' 0.00440
16' 0.00940
26' 0.00240

JF-DGP4
03/2012
17' 0.0180
21' 0.00480
26' 0.00720
31' 0.00280
33' 0.00110J

MW-70
02/2021
0' 0.00236
4.3' 0.0427
8' 0.0297
35' <0.000290
45' <0.000320
55' <0.000270

SB-07202
09/1994
1.75-2.75' 0.00370
5'-6.5' <0.00110
7.5'-8.5' <0.00120
12.5'-14' <0.00130

SB-2020-015
11/2020
1.0' 0.0157
7.0' 0.00437
13.0' <0.000310

JF-DGP3
03/2012
15' 0.0130

MW-51
02/2009
5.5' 0.0120
10.5' <0.000950

JF-DGP6
03/2012
18.5' 0.00840J
21' 0.00380
26' <0.0750

JF-DGP5
03/2012
2' 0.00310
16' 0.00120
26' 0.00170

SB-2020-014
11/2020
1.5' 0.000770J
7.0' 0.0783
11.0' 0.0128

MW-50
02/2009
6.5' 0.00260
11' 0.0210

MW-52
02/2009
5.5' <0.000830
11.5' 0.00770

SB-07202
09/1994
1.75-2.75' 0.00370
5'-6.5' <0.00110
7.5'-8.5' <0.00120
12.5'-14' <0.00130

SB-2021-041
01/2021
2' 0.00305 J*
6' 0.00201
10.5' 0.00129J
13.3' 0.000640J
19' <0.000270
23' <0.000260

DM-B-1
03/1990
11' <0.00250

DM-SB-2
03/1990
0'-3.5' <0.00250

SB-2020-016
11/2020
2.0' 0.00156
7.0' 0.0122
12.0' <0.000360

SB-2020-005
11/2020
1.0' <0.000330
6.0' <0.000360
12.0' <0.000310

DM-SB-1
03/1990
0'-3.5' <0.00250

MW-53
02/2021
1' <0.000260

MW-54
02/2021
1' <0.000310
5.5' <0.000320
9' <0.000250

SB-2020-008
11/2020
2.0' <0.000220
5.5' <0.000220
11.5' <0.000280

SB-2021-068
01/2021
1' <0.000180
5.5' 0.00305

MW-68
02/2021
8.5' 0.0142

MW-67
01/2021
0.5' <0.000200
5.5' <0.000220
9' <0.000190
16' <0.000190
20.5' <0.000190

MW-66
01/2021
1.2' <0.000280
5.5' <0.000220
10' 0.000520J

SB-2021-017
01/2021
2' <0.000340
5' <0.000310
10.5' <0.000230

SB-09101
09/1994
2' <0.00100
5' <0.00110
12.5' <0.00130

SB-09106
09/1994
2' <0.00110
5' 0.0140
12.5' <0.00130

SB-09105
09/1994
2' <0.00110
5' 0.0210
12.5' <0.00130

MW-71
02/2021
1.5' <0.000150
5' <0.000150
8.5' <0.000150
15.5' <0.000140
20.5' <0.000130 J*

SB-08916
09/1994
2' <0.00110
5' 0.0580
12.5' <0.00130

SB-08918
09/1994
2' <0.00110
5' 0.00400
12.5' <0.00130

SB-08921
09/1994
2' <0.00100
5' <0.00100
12.5' <0.00130

MW-48
02/2009
6' <0.000840
10.5' <0.00110
15.5' <0.00100

MW-24
09/1992
3.5'-4' <0.100
8.5'-9' <0.100

SB-08923
09/1994
2' 0.00650
5' 0.0520
12.5' <0.00130

MW-58
01/2021
1.5' <0.000290
5.5' <0.000310
8.4' <0.000360

MW-16
08/1992
10.5'-11' <0.100

SB-2021-033
01/2021
11' <0.0154

SB-2021-034
01/2021
10.7' <0.000280

MW-65
02/2021
2' <0.000310

SB-2021-065
02/2021
13' <0.000230

SB-2021-039
01/2021
2' <0.000820
7.4' <0.000290
10.7' <0.000310

MW-46
02/2009
6.5' <0.00100
10.5' <0.00110
16.5' <0.00100

SB-2021-009
01/2021
2' <0.000300
6' <0.000280
10.8' <0.000300

MW-75
01/2021
1.5' <0.000170
6' <0.000180
8.5' <0.000220

SB-2020-045
11/2020
2.8' <0.000300
7.2' <0.000250

MW-10R
02/2021
2' <0.000270
5.4' <0.000320
9' <0.000390

SB-2020-004
11/2020
2.5' <0.000340
8.0' <0.000330
13.0' <0.000330
17.0' <0.000260
21.0' <0.000400
27.0' <0.000320

SB-2021-003
01/2021
2' <0.000310
10.3' <0.000320
11.5' <0.000260

MW-13
08/1992
6'-6.5' <0.100

MW-73
02/2021
3.2' <0.000270
7' <0.000340
11' <0.000260
15' <0.000270
17.7' <0.000300

MW-60
02/2021
1.5' <0.000310
5' <0.000320
9' <0.000300

MW-37
02/2009
11' <0.000740
15.5' 0.00100

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the soil preliminary cleanup level based on direct contact (PCUL).
4. The PCUL for trichloroethene is 12 mg/kg.

Remedial Investigation Report
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Tukwila, Washington

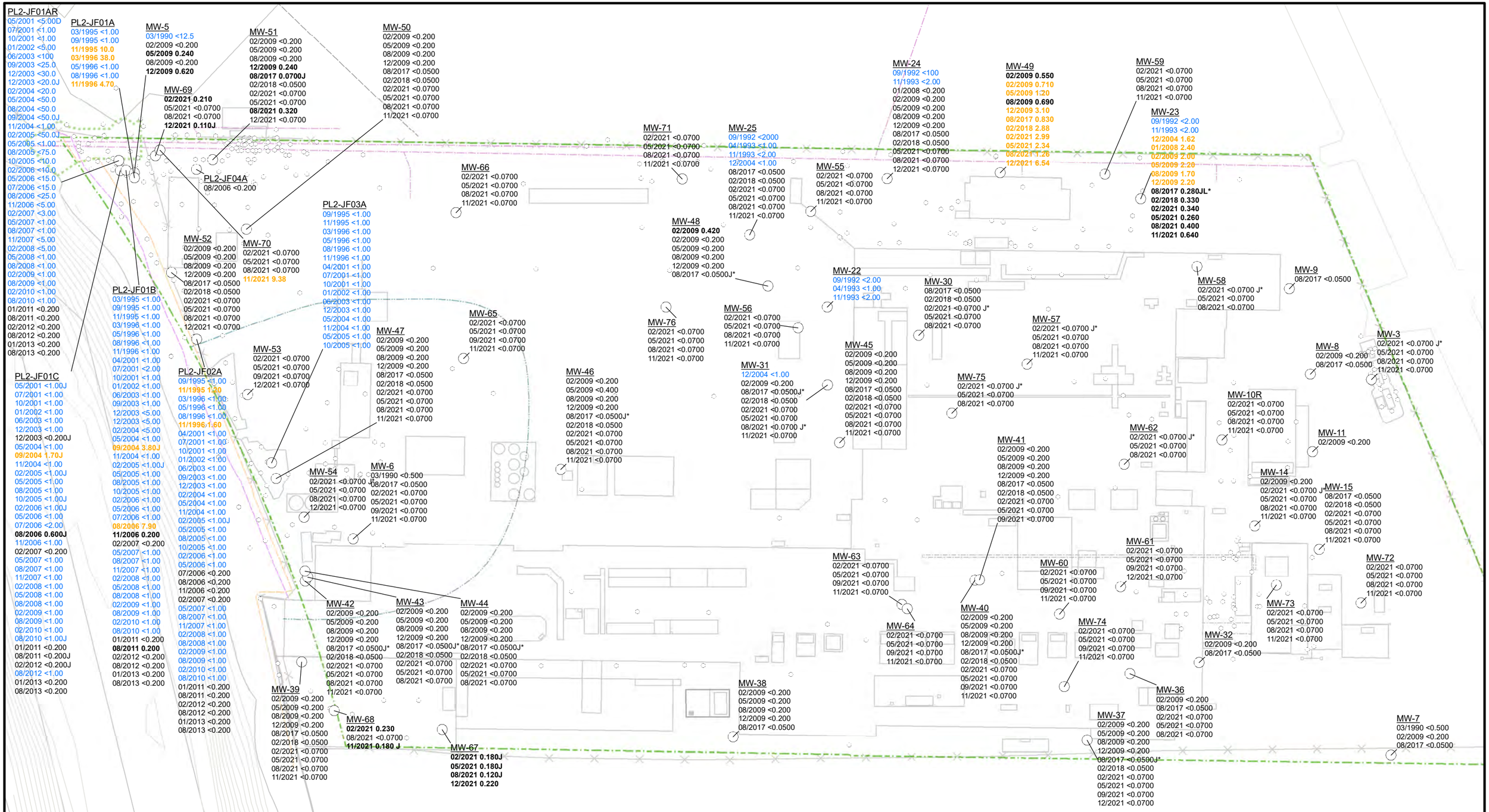
TRICHLOROETHENE IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 36A

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/12/2024 KAC



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

0 100 Feet

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for trichloroethene is 0.7 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

TRICHLOROETHENE IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON

FIG. 36B

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC

JF-DGP2
03/2012
2' <0.00110
16' <0.00120
26' <0.00120

JF-DGP4
03/2012
17' 0.00110
21' <0.00100
26' <0.00120
31' <0.00120
33' <0.00120

JF-DGP3
03/2012
15' <0.00120

MW-70
02/2021
0' <0.000290
4.3' <0.000290
8' <0.000370
35' <0.000320
45' <0.000350
55' <0.000300

SB-07202
09/1994
1.75-2.75' <0.00220
5'-6.5' <0.00230
7.5'-8.5' <0.00240
12.5'-14' <0.00260

MW-51
02/2009
5.5' <0.00360
10.5' <0.00470

SB-2020-015
11/2020
1.0' <0.000310
7.0' <0.000300
13.0' <0.000340

JF-DGP6
03/2012
18.5' <0.00160J
21' <0.00140
26' <0.0750

JF-DGP5
03/2012
2' <0.00110
16' <0.000900
26' <0.00120

SB-2020-014
11/2020
1.5' <0.000340
7.0' <0.000260
11.0' <0.000220

SB-07202
09/1994
1.75-2.75' <0.00220
5'-6.5' <0.00230
7.5'-8.5' <0.00240
12.5'-14' <0.00260

MW-50
02/2009
6.5' <0.00520
11' <0.00470

SB-2021-041
01/2021
2' <0.000310
6' <0.000150
10.5' <0.000330
13.3' <0.000350
19' <0.000300
23' <0.000290

MW-52
02/2009
5.5' <0.00410
11.5' <0.00510

DM-B-1
03/1990
11' <0.00500

DM-SB-2
03/1990
0'-3.5' <0.00500

DM-SB-1
03/1990
0'-3.5' <0.00500

SB-2020-016
11/2020
2.0' <0.000280
7.0' <0.000300
12.0' <0.000400

MW-53
02/2021
1' <0.000290

SB-2020-005
11/2020
1.0' <0.000370
6.0' <0.000400
12.0' <0.000340

MW-65
02/2021
2' <0.000340

SB-2021-065
02/2021
13' <0.000260

MW-46
02/2009
6.5' <0.00520
10.5' <0.00560
16.5' <0.00520

SB-2021-039
01/2021
2' <0.000910
7.4' <0.000320
10.7' <0.000340

SB-2020-008
11/2020
2.0' <0.000240
5.5' <0.000250
11.5' <0.000310

SB-2021-009
01/2021
2' <0.000330
6' <0.000310
10.8' <0.000330

MW-54
02/2021
1' <0.000350
5.5' <0.000350
9' <0.000280

SB-2021-068
01/2021
1' <0.000200
5.5' <0.000280

MW-68
02/2021
8.5' <0.000230

MW-67
01/2021
0.5' <0.000230
5.5' <0.000240
9' <0.000210
16' <0.000210
20.5' <0.000210

SB-2021-017
01/2021
2' <0.000380
5' <0.000340
10.5' <0.000250

MW-66
01/2021
5.5' <0.000240
1.2' <0.000310
10' <0.000310

SB-09105
09/1994
2' <0.00210
5' <0.00280
12.5' <0.00270

SB-09106
09/1994
2' <0.00210
5' <0.00240
12.5' <0.00260

SB-09101
09/1994
2' <0.00210
5' <0.00230
12.5' <0.00270

MW-71
02/2021
1.5' <0.000160
5' <0.000170
8.5' <0.000170
15.5' <0.000160
20.5' 0.00159 JL*

SB-08916
09/1994
2' <0.00220
5' <0.00250
12.5' 0.0100J

SB-08918
09/1994
2' <0.00220
5' <0.00230
12.5' <0.00260

SB-08921
09/1994
2' <0.00210
5' <0.00210
12.5' <0.00260

MW-24
09/1992
3.5'-4' <0.100
8.5'-9' <0.100

SB-08923
09/1994
2' <0.00220
5' <0.00250
12.5' 0.00900

MW-48
02/2009
6' <0.00420
10.5' <0.00540
15.5' <0.00510

MW-58
01/2021
1.5' <0.000320
5.5' <0.000340
8.4' <0.000400

MW-16
08/1992
10.5'-11' <0.100

MW-75
01/2021
1.5' <0.000190
6' <0.000200
8.5' <0.000250

SB-2020-045
11/2020
2.8' <0.000340
7.2' <0.000270

MW-10R
02/2021
2' <0.000290
5.4' <0.000350
9' <0.000430

SB-2021-033
01/2021
11' <0.0133

SB-2021-034
01/2021
10.7' <0.000310

SB-2020-004
11/2020
2.5' <0.000380
8.0' <0.000370
13.0' <0.000370
17.0' <0.000290
21.0' <0.000440
27.0' <0.000350

SB-2021-003
01/2021
2' <0.000340
10.3' <0.000360
11.5' <0.000290

MW-13
08/1992
6'-6.5' <0.100

MW-73
02/2021
3.2' <0.000290
7' <0.000380
11' <0.000280
15' <0.000300
17.7' <0.000340

MW-60
02/2021
1.5' <0.000350
5' <0.000360
9' <0.000340

MW-37
02/2009
11' <0.00370
15.5' <0.00410

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections screened against the most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL). Detection limits (when not detected) screened against the laboratory reporting (RL) from the QAPP.
4. The PCUL for vinyl chloride is 0.000056 mg/kg. The RL for vinyl chloride is 0.001 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

VINYL CHLORIDE IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 37A

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/12/2024 KAC

DRAFT FOR PUBLIC COMMENT

PL2-JF01AR
05/2001 410D
07/2001 2300D
10/2001 550D
01/2002 16000D
06/2003 4800
09/2003 1700
12/2003 1300
12/2003 2200J
02/2004 5400
05/2004 4500JL
08/2004 7000J
09/2004 5000J
11/2004 2900
02/2005 2000J
05/2005 4300
08/2005 4000
10/2005 1900J
02/2006 1100
05/2006 2600J
07/2006 820
08/2006 2100
11/2006 330
02/2007 2100
05/2007 13000
08/2007 2200
11/2007 500
02/2008 1100
05/2008 3000
08/2008 89.0
02/2009 7.60
08/2009 1300
02/2010 100
08/2010 26.0
01/2011 29.0
08/2011 3.60
02/2012 2.80
08/2012 3.80
01/2013 1.80
08/2013 9.30

MW-70
02/2021 0.540
05/2021 <0.0800
08/2021 0.0800J
11/2021 <0.00501

MW-5
03/1990 <25.0
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200

MW-51
02/2009 1.00
05/2009 1.30
08/2009 1.40
12/2009 1.10
08/2017 0.410
02/2018 0.220
02/2021 0.840
05/2021 0.560
08/2021 0.160J
12/2021 0.400

MW-69
02/2021 0.890
05/2021 0.210
08/2021 0.0900J
12/2021 0.140J

PL2-JF04A
08/2006 <0.200

MW-71
02/2021 <0.00501
05/2021 <0.0800
08/2021 0.0407M
11/2021 <0.00501

MW-25
09/1992 <2000
04/1993 <1.00
11/1993 <10.0
12/2004 <1.00
08/2017 <0.0600
02/2018 <0.0600
02/2021 <0.0800
05/2021 <0.0800
08/2021 0.00523J
11/2021 <0.00501

MW-24
09/1992 <100
11/1993 <10.0
01/2008 <0.200
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0600
02/2018 <0.0600
05/2021 <0.0800
08/2021 <0.00501
12/2021 <0.00501

MW-49
02/2009 1.30
02/2009 1.80
05/2009 0.840
08/2009 0.530
12/2009 1.40
08/2017 0.0700J
02/2018 0.0900J
02/2021 <0.0800
05/2021 <0.0800
08/2021 0.0270
12/2021 <0.00501

MW-23
09/1992 <2.00
11/1993 <10.0
12/2004 <1.00
01/2008 <0.200
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0600J*
02/2018 <0.0600
02/2021 <0.0800
05/2021 <0.0800
08/2021 0.0292
11/2021 <0.00501

MW-59
02/2021 <0.0800
05/2021 <0.0800
08/2021 <0.00501
11/2021 <0.00501

MW-66
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501
11/2021 <0.00501

MW-55
02/2021 <0.0800
05/2021 <0.0800
08/2021 <0.00501
11/2021 <0.00501

MW-50
02/2009 0.510
05/2009 0.390
08/2009 0.380
12/2009 0.360
08/2017 1.49
02/2018 0.200
02/2021 1.45
05/2021 2.96
08/2021 2.69
11/2021 2.46

PL2-JF01A
03/1995 2.20
09/1995 <2.00
11/1995 <2.00
03/1996 <2.00
05/1996 <2.00
08/1996 <2.00
11/1996 <2.00

MW-48
02/2009 0.200
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0600J*

MW-52
02/2009 0.920
05/2009 0.770
08/2009 0.560
12/2009 0.690
08/2017 0.640
02/2018 0.830
02/2021 0.740
05/2021 0.410
08/2021 0.320
12/2021 0.700

MW-58
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501

MW-76
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501
11/2021 <0.00501

MW-30
08/2017 <0.0600
02/2018 <0.0600
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501

MW-9
08/2017 <0.0600

PL2-JF03A
09/1995 <2.00
11/1995 <2.00
03/1996 <2.00
05/1996 <2.00
08/1996 <2.00
11/1996 <2.00
04/2001 <1.00J
07/2001 <1.00
10/2001 <1.00
01/2002 <1.00
06/2003 <1.00
12/2003 <1.00
05/2004 <1.00JL
11/2004 <1.00
05/2005 <1.00
10/2005 <1.00

MW-65
02/2021 <0.00501
05/2021 <0.0800
09/2021 <0.00501
11/2021 <0.00501

MW-22
09/1992 <2.00
04/1993 <1.00
11/1993 <10.0

MW-57
02/2021 <0.00501
05/2021 <0.0800
08/2021 0.00640J
11/2021 <0.00501

MW-8
02/2009 <0.200
08/2017 <0.0600

MW-4
02/2021 <0.00501

MW-53
02/2021 <0.00501
05/2021 <0.0800
09/2021 <0.0800
12/2021 <0.00501

MW-46
02/2009 0.300
05/2009 <0.400
08/2009 0.220
12/2009 0.210
08/2017 0.170JL*
02/2018 0.100J
02/2021 0.0311
05/2021 <0.0800
08/2021 0.110J
11/2021 0.120J

MW-56
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501 J*
11/2021 <0.00501

MW-75
02/2021 <0.00501
05/2021 <0.0800
08/2021 0.0740

MW-10R
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501
11/2021 <0.00501

MW-3
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501 J*
11/2021 <0.00501

PL2-JF01B
03/1995 <2.00
09/1995 <2.00
11/1995 <2.00
03/1996 <2.00
05/1996 <2.00
08/1996 <2.00
11/1996 <2.00
04/2001 130J
07/2001 170
10/2001 190D
01/2002 150
06/2003 57.0
09/2003 240
12/2003 120
12/2003 170J
02/2004 100
05/2004 13.0JL
09/2004 1.20J
11/2004 62.0
02/2005 87.0J
05/2005 29.0
08/2005 55.0
10/2005 35.0
02/2006 160
05/2006 5.10
07/2006 30.0
08/2006 0.300
11/2006 7.60
02/2007 20.0
05/2007 2.90
08/2007 2.40
11/2007 7.90
02/2008 20.0
05/2008 3.50
08/2008 1.80
02/2009 26.0
08/2009 9.00
02/2010 20.0
08/2010 12.0
01/2011 14.0
08/2011 0.700
02/2012 2.70
08/2012 0.600
01/2013 0.800
08/2013 0.300

PL2-JF01C
05/2001 <1.00J
07/2001 <1.00
10/2001 <1.00
01/2002 <1.00
06/2003 <1.00
12/2003 <1.00
12/2003 <0.200J
05/2004 <1.00JL
09/2004 0.300J
11/2004 <1.00
02/2005 <1.00J
05/2005 <1.00
08/2005 <1.00
10/2005 <1.00J
02/2006 <1.00J
05/2006 <1.00
07/2006 <2.00
08/2006 <0.200J
11/2006 <1.00
02/2007 <0.200
05/2007 <1.00
08/2007 <1.00
11/2007 <1.00
02/2008 <1.00
05/2008 <1.00
08/2008 <1.00
02/2009 <1.00
08/2009 <1.00
02/2010 <1.00
08/2010 <1.00J
01/2011 <0.200
08/2011 <0.200J
02/2012 <0.200J
08/2012 <1.00
01/2013 <0.200
08/2013 <0.200

PL2-JF02A
09/1995 <2.00
11/1995 <2.00
03/1996 <2.00
05/1996 <2.00
08/1996 <2.00
11/1996 <2.00
04/2001 1.20J
07/2001 3.30
10/2001 5.80
01/2002 2.50
06/2003 <1.00
09/2003 <1.00
12/2003 <1.00
02/2004 <1.00
05/2004 <1.00JL
11/2004 <1.00
02/2005 <1.00J
05/2005 <1.00
08/2005 <1.00
10/2005 <1.00
02/2006 <1.00
05/2006 <1.00
07/2006 0.400
08/2006 0.300
11/2006 0.500
02/2007 0.600
05/2007 <1.00
08/2007 <1.00
11/2007 <1.00
02/2008 <1.00
08/2008 <1.00
02/2009 <1.00
08/2009 <1.00
02/2010 <1.00
08/2010 <1.00
01/2011 <0.200
08/2011 <0.200
02/2012 <0.200
08/2012 <0.200
01/2013 <0.200
08/2013 <0.200

MW-54
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501
12/2021 <0.00501

MW-6
03/1990 <1.00
08/2017 <0.0600
02/2021 <0.00501
05/2021 <0.0800
09/2021 <0.00501
11/2021 <0.00501

MW-45
02/2009 0.890
05/2009 0.760
08/2009 0.450
12/2009 0.330
08/2017 0.140J
02/2018 0.180J
02/2021 0.310
05/2021 <0.0800
08/2021 0.0596 J*
11/2021 0.100J

MW-31
12/2004 0.202J
02/2009 <0.200
08/2017 0.110JL*
02/2018 0.140J
02/2021 0.0250
05/2021 <0.0800
08/2021 0.0633 JL*
11/2021 0.0477M

MW-62
02/2021 <0.00501
05/2021 <0.0800
08/2021 0.00525J

MW-11
02/2009 <0.200

MW-40
02/2009 0.740
05/2009 0.970
08/2009 1.30
12/2009 1.40
08/2017 0.930JL*
02/2018 0.870
02/2021 0.0523
05/2021 0.390
09/2021 0.340
11/2021 0.240J*

MW-14
02/2009 <0.200
02/2021 <0.00501
05/2021 <0.0800
08/2021 0.0167J
11/2021 0.0207

MW-15
08/2017 <0.0600
02/2018 <0.0600
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501
11/2021 <0.00501

MW-47
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0600
02/2018 <0.0600
02/2021 <0.00501
05/2021 <0.0800
08/2021 0.0124 J*
11/2021 <0.00501

MW-42
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0600J*
02/2018 <0.0600
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501
11/2021 <0.00501

MW-43
02/2009 0.420
05/2009 0.530
08/2009 0.670
12/2009 0.520
08/2017 0.350JL*
02/2018 0.300
02/2021 0.440
05/2021 0.430
08/2021 0.250

MW-44
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0600J*
02/2018 <0.0600
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501

MW-63
02/2021 <0.00501
05/2021 <0.0800
09/2021 <0.00501
11/2021 <0.00501

MW-60
02/2021 0.0279
05/2021 <0.0800
09/2021 <0.0800
11/2021 0.0772M

MW-72
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501
11/2021 <0.00501

MW-64
02/2021 0.390
05/2021 0.220
09/2021 0.240
11/2021 0.250

MW-41
02/2009 0.470
05/2009 0.350
08/2009 0.360
12/2009 0.430
08/2017 0.120J
02/2018 0.760
02/2021 0.500
05/2021 0.510
09/2021 0.510

MW-61
02/2021 <0.00501
05/2021 <0.0800
09/2021 <0.00501
12/2021 <0.00501

MW-73
02/2021 <0.00501
05/2021 <0.0800
08/2021 0.0139 J*
11/2021 <0.00501

MW-74
02/2021 <0.00501
05/2021 <0.0800
09/2021 <0.00501
11/2021 <0.00501

MW-32
02/2009 <0.200
08/2017 <0.0600

MW-39
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0600
02/2018 <0.0600
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501
11/2021 <0.00501

MW-68
02/2021 0.620
08/2021 0.380
11/2021 14.1 13.2
11/2021 0.0423M

MW-67
02/2021 <0.00501
05/2021 <0.0800
08/2021 0.0162J
12/2021 <0.00501

MW-38
02/2009 <0.200
05/2009 <0.200
08/2009 <0.200
12/2009 <0.200
08/2017 <0.0600

MW-36
02/2009 <0.200
08/2017 <0.0600
02/2021 <0.00501
05/2021 <0.0800
08/2021 <0.00501

MW-37
02/2009 <0.200
05/2009 <0.200
08/2009 0.420
12/2009 <0.200
08/2017 <0.0600J*
02/2018 <0.0600
02/2021 <0.00501
05/2021 <0.0800
09/2021 <0.0200 B*
12/2021 <0.00501

MW-7
03/1990 <1.00
02/2009 <0.200
08/2017 <0.0600

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections have been screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). Detection limits (when not detected) have been screened against the laboratory reporting limit (RL) from the QAPP.
4. The PCUL for vinyl chloride is 0.18 µg/L. The RL for vinyl chloride is 0.2 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

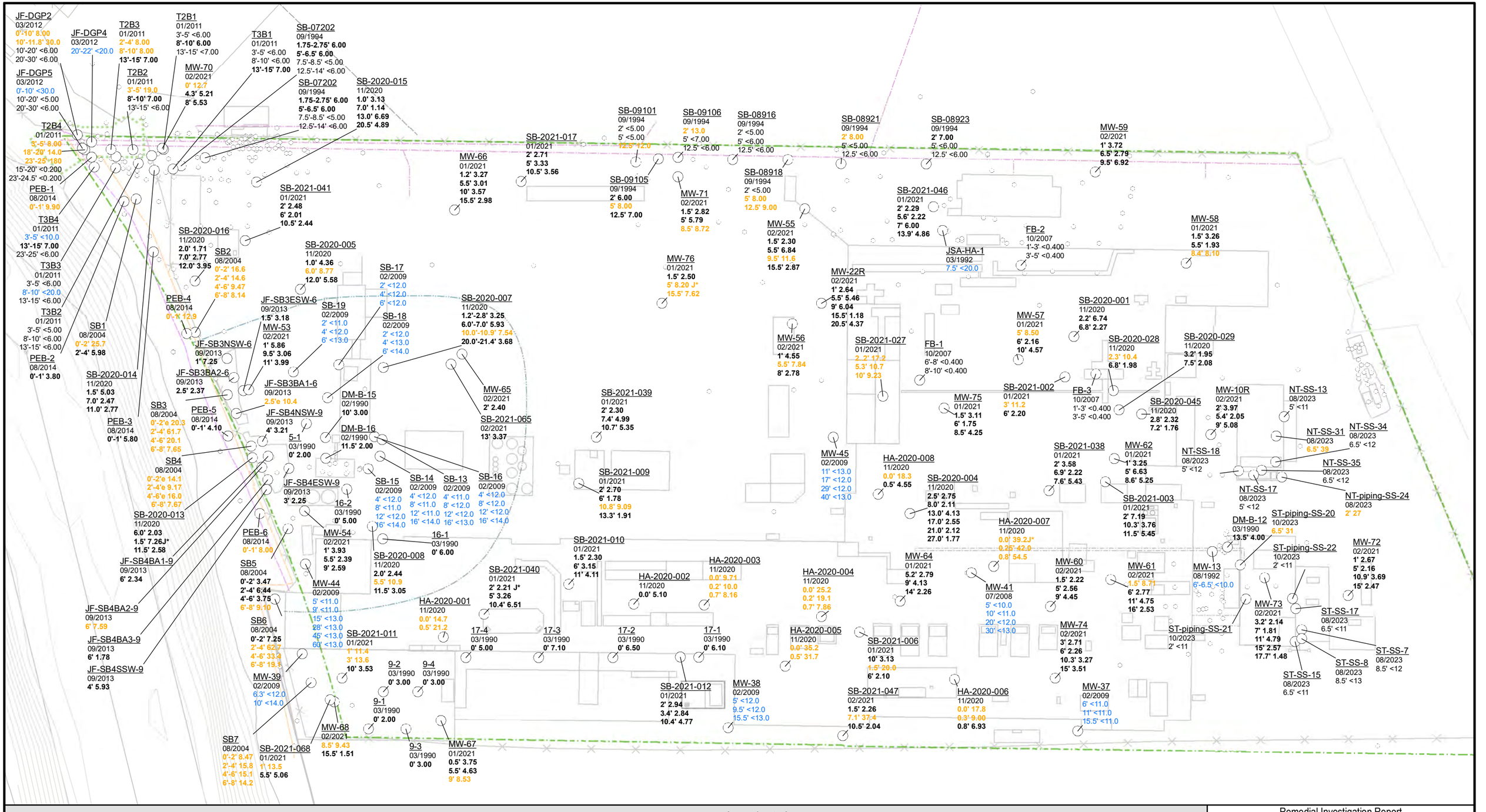
VINYL CHLORIDE IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 37B

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

N W E S

0 100

Feet

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for arsenic is 7.3 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

ARSENIC IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 38A

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/13/2024 KAC

PL2-JF01AR
05/2001 <0.500 <0.500
07/2001 **0.700** <0.500
10/2001 **0.800** <1.00
01/2002 **0.600 0.700**
06/2003 <0.500 **0.400**
09/2003 **0.400 0.400**
12/2003 **0.400 0.300**
12/2003 **0.300** ----
02/2004 **0.400** <0.500
05/2004 **0.400 0.400**
08/2004 **0.400 0.400**
09/2004 **0.500** ----
11/2004 <0.500 **0.800**
02/2005 **0.400** <0.500
05/2005 <0.500 <0.500
08/2005 **0.400 0.500**
10/2005 <0.500 <0.500
02/2006 <0.500 **1.80**
05/2006 <0.500 **0.400**
07/2006 **0.400 0.400**
08/2006 **0.600** <0.500
11/2006 <1.00 **0.800**
02/2007 **0.500 1.70**
05/2007 **0.400** <0.500
08/2007 <0.500 <0.500
11/2007 <0.500 <0.500
01/2008 ---- <3.00
02/2008 <0.200 <0.500
05/2008 <0.500 <0.500
08/2008 <0.500 <0.500
02/2009 <0.500 <0.500
08/2009 <0.500 **0.900**
02/2010 **0.600 0.700**
08/2010 <0.500 <0.500
01/2011 **0.625 0.560**
08/2011 **0.388 0.421**
02/2012 <0.950 <0.950
08/2012 <0.400 <0.400
01/2013 <0.400 <0.400
08/2013 <0.420 <0.420

PL2-JF01B
03/1995 <1.00 **1.00**
09/1995 **2.00** ----
11/1995 <1.00 ----
03/1996 <1.00 ----
05/1996 **1.00** ----
08/1996 <1.00 ----
11/1996 <1.00 ----
04/2001 **1.00 1.00**
07/2001 <1.00 <1.00
10/2001 **2.90** <2.00
01/2002 **2.00 1.00**
06/2003 <0.500 <0.500
09/2003 **2.20 3.50**
12/2003 <1.00 <1.00
12/2003 **1.60** ----
02/2004 **1.00** <0.500
05/2004 <1.00 <1.00
09/2004 **1.10** ----
11/2004 **2.20 2.40**
02/2005 <1.00 <1.00
05/2005 **2.20 2.00**
08/2005 **0.500 0.600**
10/2005 <2.00 <2.00
02/2006 **0.700 1.00**
05/2006 <1.00 <1.00
07/2006 **1.60** <1.00
08/2006 **0.700** <0.500
11/2006 **2.40 1.80**
02/2007 **2.00** <1.00
05/2007 <0.500 <0.500
08/2007 <1.00 <1.00
11/2007 <1.00 <1.00
01/2008 ---- <3.00
02/2008 **0.700 1.20**
05/2008 <1.00 <1.00
08/2008 **0.800 0.500**
02/2009 <1.00 <1.00
08/2009 <1.00 <1.00
02/2010 **2.00 2.00**
08/2010 <1.00 <1.00
01/2011 **0.391 0.357**
08/2011 **0.370 0.333**
02/2012 <0.950 <0.950
08/2012 <0.400 <0.400
01/2013 <0.400 <0.400
08/2013 <0.420 <0.420

MW-5
03/1990 **3.00** ----
01/2008 ---- <3.00
02/2009 ---- **14.0**
05/2009 ---- <3.00
08/2009 ---- <3.00
12/2009 ---- <3.00

PL2-JF01A
03/1995 **1.00 1.00**
09/1995 **2.00** ----
11/1995 <1.00 ----
03/1996 **1.00** ----
05/1996 **2.00** ----
08/1996 <1.00 ----
11/1996 <1.00 ----

MW-70
02/2021 **2.34D 1.02D**
05/2021 **0.940J, D 0.660J, D**
08/2021 **0.784 0.471**
11/2021 **2.06 1.41**

MW-69
02/2021 **1.66 0.887**
05/2021 **1.12 0.583**
08/2021 **0.852 0.473**
12/2021 **0.872 0.478**

MW-51
08/2017 **0.166J 0.140J**
02/2018 **0.137J 0.0840J**

PL2-JF04A
08/2006 **8.10 8.50**
01/2008 ---- **21.0**

PL2-JF01C
05/2001 **8.00 4.00**
07/2001 **3.00** <2.00
10/2001 **10.0 6.00**
01/2002 <5.00 **6.00**
06/2003 **6.00 3.00**
12/2003 **4.00** <2.00
12/2003 **4.00** ----
09/2004 **6.00** ----
11/2004 **0.400** ----
02/2005 <5.00 **3.00**
05/2005 **2.65 0.317J**
08/2005 **2.94 0.300**
10/2005 **2.15 0.297**
02/2006 **1.72 0.291**
07/2006 **6.00 0.277**
08/2006 <2.00 <2.00
11/2006 **0.912 0.174**
02/2007 **5.20 4.00**
08/2007 **0.892 0.164**
11/2007 **0.772Z-01 4.00**
01/2008 ---- <3.00
05/2008 **0.790Z-01 4.12Z-01**
08/2008 **0.729 3.00**
08/2009 **4.00 9.00**
08/2010 **0.607 0.512**
01/2011 **2.18 0.844**
08/2011 **1.15 0.679**
08/2012 **<20.0 <20.0**
08/2013 <2.00 <2.00

MW-50
08/2017 **0.196J 0.127J**
02/2018 **0.212 0.142J**

MW-52
08/2017 **1.19 0.592**
02/2018 **0.756 0.625**

MW-53
02/2021 **1.41 0.845**
05/2021 **0.393 0.335**
09/2021 **0.456 0.376**
12/2021 **0.759 0.203**

PL2-JF02A
09/1995 **5.00** ----
11/1995 **2.00** ----
03/1996 **4.00** ----
05/1996 **4.00** ----
08/1996 **4.00** ----
11/1996 **2.00** ----
04/2001 **0.700 0.400**
07/2001 **0.900 0.700**
10/2001 <0.500 <0.500
01/2002 **3.80 3.90**
06/2003 <0.500 **0.500**
09/2003 <0.500 **0.800**
12/2003 **1.00 0.800**
02/2004 **1.40 0.800**
05/2004 **1.10 0.600**
11/2004 **1.30 0.400**
02/2005 **1.10 0.300**
05/2005 **0.800 0.300**
08/2005 **0.400 0.400**
10/2005 **0.500 0.200**
02/2006 **0.900** <0.500
05/2006 **0.400 0.300**
07/2006 **0.500 0.200**
08/2006 **0.500 0.400**
11/2006 <0.500 <0.500
02/2007 <0.500 <0.500
05/2007 **0.400 0.300**
08/2007 **0.300 0.300**
11/2007 **0.300 0.200**
01/2008 ---- <3.00
02/2008 **0.200 0.200**
08/2008 <0.500 <0.500
02/2009 **0.800 0.200**
08/2009 **0.300 0.300**
02/2010 **0.700 0.400**
08/2010 **0.200 0.400**
01/2011 **0.670 0.285**
08/2011 **0.308 0.299**
02/2012 <0.950 <0.950
08/2012 <0.400 <0.400
01/2013 **0.650J** <0.400
08/2013 <0.420 <0.420

PL2-JF03A
09/1995 **2.00** ----
11/1995 **2.00** ----
03/1996 <1.00 ----
05/1996 **1.00** ----
08/1996 **1.00** ----
11/1996 <1.00 ----
04/2001 **0.400 0.400**
07/2001 **0.600 0.600**
10/2001 **0.700 0.600**
01/2002 **0.800 0.800**
06/2003 **1.10 1.00**
12/2003 **0.400 0.400**
11/2004 **0.500 0.500**
05/2005 **0.700 0.400**

MW-47
02/2009 ---- <3.00
05/2009 ---- <3.00
08/2009 ---- <3.00
12/2009 ---- <3.00

MW-6
03/1990 **70.0** ----
01/2008 ---- <3.00
08/2017 **39.4 10.8**
02/2018 **11.1 4.58**
02/2021 **9.37 2.82**
05/2021 **32.3 10.2**
09/2021 **44.7 28.1**
11/2021 **14.8 8.55**

MW-44
02/2009 ---- <4.50
05/2009 ---- <4.60
08/2009 ---- **9.50**
12/2009 ---- **<8.70**
08/2017 **1.21 1.06**
02/2018 **1.14J* 0.980J**

MW-54
02/2021 **5.72 5.41**
05/2021 **4.04 3.88**
08/2021 **3.38 3.05**
12/2021 **2.67 2.66**

MW-42
02/2009 ---- **34.0**
05/2009 ---- **8.10**
08/2009 ---- **3.80**
12/2009 ---- **4.30**
08/2017 **3.45 2.29**
02/2018 **4.36 4.47**

MW-43
02/2009 ---- <3.00
05/2009 ---- <3.00
08/2009 ---- <3.00
12/2009 ---- <3.00
08/2017 **0.141J 0.0750J**
02/2018 **0.143J 0.104J**

MW-39
02/2009 ---- <4.50
05/2009 ---- <3.00
08/2009 ---- <4.00
12/2009 ---- <3.50
08/2017 **1.83J 1.67J**
02/2018 **12.9 1.33**
02/2021 **2.24D 1.18D**
05/2021 **6.97D 1.28**
08/2021 ---- **1.81J, D**
08/2021 **2.48D** ----
11/2021 **1.59 1.65**

MW-68
02/2021 **10.7 9.79**
08/2021 **6.31D 5.84D**
11/2021 **14.1 13.2**

MW-67
02/2021 **0.592 0.551**
05/2021 **0.708 0.626**
08/2021 **1.08 0.716**
12/2021 **1.01 0.498**

MW-65
02/2021 **0.956D 0.345**
05/2021 **1.88 0.353**
09/2021 **2.58 0.641**
11/2021 **1.18 0.674**

MW-66
02/2021 **3.68 2.61**
05/2021 **2.77 1.52**
08/2021 **1.54 J* 0.657**
11/2021 **3.06 1.91**

MW-46
02/2009 ---- **8.10**
05/2009 ---- **16.0**
08/2009 ---- **5.20**
12/2009 ---- **11.0**
02/2018 **20.7 5.91**
02/2021 **26.1 1.79**
05/2021 **19.9 1.60**
08/2021 **17.6 7.28**
11/2021 **7.10 5.52**

MW-71
02/2021 **6.86D 2.92**
05/2021 **6.18 3.17**
08/2021 **9.44 3.94**
11/2021 **4.08 2.87**

MW-25
01/2008 ---- **9.90**
02/2009 ---- **21.0**
08/2017 **6.73 0.487JL***
02/2018 **3.71 0.102J**
02/2021 **131 91.6**
05/2021 **15.5D 9.48D**
08/2021 **20.1 1.94**
11/2021 **9.36 5.22**

MW-48
02/2009 ---- <3.00
05/2009 ---- <3.00
08/2009 ---- <3.00
12/2009 ---- <3.00
08/2017 **0.555 0.344**
02/2018 **0.694 0.330**

MW-76
02/2021 **0.524 0.306**
05/2021 **2.09 1.19**
08/2021 **0.999 0.351**
11/2021 **0.808 0.611**

MW-24
01/2008 ---- **32.0**
02/2009 ---- **39.0**
08/2017 **30.6 29.4**
02/2018 **27.3 6.29**
02/2021 **34.6 8.43**
05/2021 **33.4D 8.09D**
08/2021 **43.3D 9.22D**
12/2021 **36.9 4.56**

MW-55
02/2021 **0.417 0.362**
05/2021 **1.62 0.272**
08/2021 **3.08 0.634**
11/2021 **0.775 0.422**

MW-56
02/2021 **0.475 0.324**
05/2021 **0.676 0.341**
08/2021 **2.52 1.40**
11/2021 **0.553 0.509**

MW-30
01/2008 ---- <3.00
08/2017 **0.491 0.188J**
02/2018 **0.430 0.223**

MW-31
01/2008 ---- <3.00
02/2009 ---- **5.30**
08/2017 **1.95 1.28**
02/2018 **2.17 1.08**

MW-75
02/2021 **0.215 0.0990J**
05/2021 **0.605 0.162J**
08/2021 **0.611 0.351**

MW-45
02/2009 ---- <3.00
05/2009 ---- <3.00
08/2009 ---- <3.00
12/2009 ---- <3.00
08/2017 **0.478 0.415**
02/2018 **0.466 0.365**

MW-40
02/2009 ---- **9.10**
05/2009 ---- **3.70**
08/2009 ---- **6.20**
12/2009 ---- **4.90**
02/2018 **55.5 11.0**
02/2021 **6.44 1.99**
05/2021 **12.9 0.961**
09/2021 **18.5 5.07**
11/2021 **17.8 6.52**

MW-49
02/2009 ---- **5.50**
02/2018 **0.814 0.639**
02/2021 **0.472 0.281**
05/2021 **0.458 0.233**
08/2021 **2.79 0.349**
12/2021 **1.79 0.469**

MW-57
02/2021 **14.3 9.24**
05/2021 **13.7 12.1**
08/2021 **8.87 3.70**
11/2021 **6.66 4.85**

MW-59
02/2021 **6.09 5.10**
05/2021 **0.900 0.421**
08/2021 **0.942 0.556**
11/2021 **2.96 1.93**

MW-28
11/1992 **<50.0** ----
01/2008 ---- **8.60**
02/2009 ---- **5.20**
08/2017 **18.1 12.2**
02/2018 **13.2 7.47**
02/2021 **18.3 6.29**
05/2021 **25.7 5.69**
08/2021 **23.0 14.5**
11/2021 **13.2D 14.0**

MW-58
02/2021 **2.40 0.987**
05/2021 **43.2 26.3**
08/2021 **64.3D 16.8**

MW-10
02/2008 ---- <3.00

MW-62
02/2021 **5.53 2.16**
05/2021 **2.09 1.79**
08/2021 **1.10 0.385**

MW-8
01/2008 ---- **14.0**
02/2009 ---- **32.0**
02/2018 **0.851 0.829**
02/2021 **1.03 0.389**
05/2021 **13.4 12.0D**
08/2021 **18.8 16.2**

MW-10R
02/2021 **0.885 0.528**
05/2021 **0.651 0.504**
08/2021 **0.697 0.413**
11/2021 **0.861 0.675**

MW-9
01/2008 ---- **13.0**
08/2017 **15.2 0.906**
02/2018 **46.0 0.290**
02/2021 **2.48 0.437**
05/2021 **6.79 0.932**
08/2021 **2.80 0.417**
11/2021 **1.81 0.578**

MW-4
01/2008 ---- **5.30**
02/2018 **2.08 1.44**
02/2021 **2.37 2.08**
05/2021 **5.82 3.09**
08/2021 **3.04 1.43**
11/2021 **3.21D 2.26**

MW-3
01/2008 ---- <3.00

MW-11
08/2017 **4.24 2.15**
02/2018 **6.19 5.80**
02/2021 **3.48 1.78**
05/2021 **7.06 5.75**
08/2021 **7.98 5.89**
11/2021 **6.14 5.41**

MW-14
02/2008 ---- **3.80**
02/2009 ---- <3.00
08/2017 **7.44 1.14**
02/2018 **7.04 3.72**
02/2021 **0.492 0.265**
05/2021 **4.71 3.61**
08/2021 **8.10 3.72**
11/2021 **4.19 2.78**

MW-13
09/1992 **19.0** ----

MW-63
02/2021 **28.0 J* 1.19**
05/2021 **2.37 1.32**
09/2021 **10.4 2.91**
11/2021 **14.1 2.12**

MW-64
02/2021 **5.07 2.42**
05/2021 **3.07D 1.33**
09/2021 **3.51 1.61**
11/2021 **4.62 3.11**

MW-41
02/2009 ---- **5.60**
05/2009 ---- **4.50**
08/2009 ---- <3.00
12/2009 ---- <3.00
02/2018 **82.2 29.3**
02/2021 **52.2 28.7**
05/2021 **43.9 18.6**
09/2021 **60.6 34.0**

MW-60
02/2021 **18.5D 2.99**
05/2021 **16.5 10.8**
09/2021 **16.1 12.8**
11/2021 **20.8D 14.3**

MW-74
02/2021 **13.8 5.17**
05/2021 **5.90 3.94**
09/2021 **5.43 4.71**
11/2021 **5.92 1.72**

MW-61
02/2021 **1.36 1.28**
05/2021 **1.21 1.06**
09/2021 **9.39 7.16**
12/2021 **2.86 1.55**

MW-36
02/2008 ---- **50.0**
02/2009 ---- **92.0**
08/2017 **46.6 14.3**
02/2018 **46.0 11.3**
02/2021 **37.0 14.8**
05/2021 **43.1 18.3**
08/2021 **51.7 19.3**

MW-34
02/2008 ---- <3.00

MW-73
02/2021 **1.77 0.720**
05/2021 **6.45D 3.84D**
08/2021 **9.65 0.0900J**
11/2021 **5.48 1.12**

MW-15
01/2008 ---- <3.00
08/2017 **2.33 0.304**
02/2018 **1.56 0.277**

MW-72
02/2021 **25.7 25.0**
05/2021 **8.25 9.11**
08/2021 **15.5 13.3**
11/2021 **0.761 0.606**

MW-38
02/2009 ---- <3.00
05/2009 ---- <3.00
12/2009 ---- <3.00
08/2017 **0.523 0.449**
02/2018 **0.334J 0.267**

MW-37
02/2009 ---- **4.80**
05/2009 ---- <3.00
08/2009 ---- <3.00
12/2009 ---- <3.00
08/2017 **7.23 3.39**
02/2018 **0.374J 0.186J**
02/2021 **0.264 0.251**
05/2021 **1.99 2.28**
09/2021 **7.61 5.62**
12/2021 **0.307 0.250**

MW-32
02/2008 ---- **19.0**
02/2009 ---- **39.0**
08/2017 **35.0 9.01**
02/2018 **5.46 3.58**
02/2021 **0.991 0.504**
05/2021 **28.9 3.79**
08/2021 **26.8 2.42D**
12/2021 **2.89 1.24**

MW-7
03/1990 **19.0** ----
02/2008 ---- <3.00
02/2009 ---- <3.00
05/2009 ---- <3.00
08/2009 ---- <3.00
12/2009 ---- <3.00
08/2017 **0.235 0.165J**
02/2018 **0.242 0.158J**

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

N W E S

0 100
Feet

Analyte Result Key

T2B2	*Sample Location Name*
1/2010 220 100	*Sample Date: Result - Total Result - Dissolved*
1/2010 220 100	*Sample Date: Result - Total Result - Dissolved (Detected)*
1/2010 820 100	*Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*
1/2010 356,220 100	*Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for arsenic is 8 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

ARSENIC (TOTAL AND DISSOLVED) IN GROUNDWATER

September 2024 | 21-1-12596-040

SHANNON & WILSON | FIG. 38B

DRAFT FOR PUBLIC COMMENT

JF-DGP2
03/2012
0'-10' 24.0
10'-11.8' 61.0
10'-20' 27.4
20'-30' 13.5

MW-70
02/2021
0' 122
4.3' 24.2
8' 15.8

SB-07202
09/1994
1.75-2.75' 75.2
5'-6.5' 23.8
7.5'-8.5' 12.5
12.5'-14' 16.4

SB-07202
09/1994
1.75-2.75' 75.2
5'-6.5' 23.8
7.5'-8.5' 12.5
12.5'-14' 16.4

JF-DGP4
03/2012
20'-22' 66.0

JF-DGP5
03/2012
0'-10' 62.0
10'-20' 23.7
20'-30' 35.9

SB1
08/2004
0'-2' 515
2'-4' 209

SB-2020-015
11/2020
7.0' 8.89
1.0' 26.0
13.0' 19.7
20.5' 44.4

PEB-2
08/2014
0'-1' 23.3

T2B4
12/2012
15'-20' <0.0200
23'-24.5' <0.0200

SB-2021-041
01/2021
2' 9.16
6' 9.11
10.5' 13.5

PEB-1
08/2014
0'-1' 30.0

SB-2020-014
11/2020
1.5' 13.4
7.0' 10.1
11.0' 11.6

PEB-3
08/2014
0'-1' 629

SB-2020-016
11/2020
2.0' 8.64
7.0' 19.3
12.0' 19.3

SB2
08/2004
0'-2' 829
2'-4' 707
4'-6' 588B2
6'-8' 618B2

SB-2020-005
11/2020
1.0' 10.8
6.0' 19.5
12.0' 18.9

PEB-4
08/2014
0'-1' 481

SB-17
02/2009
2' 19.0
4' 12.0
6' 11.0

JF-SB3NSW-6
09/2013
1' 561

SB-2020-007
11/2020
1.2'-2.8' 10.2
6.0'-7.0' 14.1
10.0'-10.9' 17.6

SB3
08/2004
0'-2'e 282
2'-4' 1170
4'-6' 765B2
6'-8' 772B2

JF-SB3BA2-6
09/2013
2.5' 8.01

SB-19
02/2009
2' 87.0
4' 16.0
6' 14.0

MW-65
02/2021
2' 14.1

JF-SB3ESW-6
09/2013
1.5' 25.3

MW-53
02/2021
1' 44.9
9.5' 9.66
11' 20.8

SB-18
02/2009
2' 14.0
4' 9.50
6' 18.0

SB-16
02/2009
4' 8.00
8' 7.60
12' 1800
16' 9.00

SB4
08/2004
0'-2'e 507
2'-4'e 476
4'-6'e 666B2
6'-8' 691B2

SB-2021-065
02/2021
13' 16.6

PEB-5
08/2014
0'-1' 54.2

JF-SB3BA1-6
09/2013
2.5'e 151

JF-SB4NSW-9
09/2013
4' 116

5-1
03/1990
0' 37.2

SB-13
02/2009
4' 7.90
8' 290
12' 9.30
16' 8.50

SB-2020-013
11/2020
1.5' 30.8J*
6.0' 13.4
11.5' 7.57

DM-B-15
02/1990
10' 7.57

SB-14
02/2009
4' 9.90
8' 8.30
12' 1800
16' 14.0

JF-SB4BA1-9
09/2013
6' 6.76

JF-SB4BA2-9
09/2013
6' 298

JF-SB4BA3-9
09/2013
6' 11.9

DM-B-16
02/1990
11.5' 6.17

16-2
03/1990
0' 913

SB-15
02/2009
4' 8.90
8' 6.80
12' 24.0
16' 17.0

PEB-6
08/2014
0'-1' 1130

JF-SB4SSW-9
09/2013
4' 298

MW-54
02/2021
1' 16.5
5.5' 10.4
9' 19.1

SB5
08/2004
0'-2' 560
2'-4' 961
4'-6' 799B2
6'-8' 889B2

16-1
03/1990
0' 1740

JF-SB4ESW-9
09/2013
3' 5.31

MW-44
02/2009
5' 9.30
9' 37.0
15' 32.0
28' 9.80
45' 7.20
60' 7.70

SB-2020-008
11/2020
2.0' 10.0
5.5' 10.9
11.5' 11.0

HA-2020-001
11/2020
0.0' 335
0.5' 41.8

SB6
08/2004
0'-2' 593
2'-4' 1170
4'-6' 1550B2
6'-8' 606B2

SB-2021-011
01/2021
1' 2620D
3' 420D
10' 19.9

17-4
03/1990
0' 3720

17-3
03/1990
0' 301

17-2
03/1990
0' 282

17-1
03/1990
0' 780

MW-39
02/2009
6.3' 1000
10' 1100

9-2
03/1990
0' 6500

9-4
03/1990
0' 504

9-1
03/1990
0' 914

9-3
03/1990
0' 1910

SB7
08/2004
0'-2' 3200
2'-4' 410
4'-6' 1950B2
6'-8' 1000B2

SB-2021-068
01/2021
1' 1660
5.5' 1600

MW-68
02/2021
8.5' 70.1
15.5' 8.33

MW-67
01/2021
0.5' 25.0
5.5' 11.9
9' 17.8

MW-66
01/2021
1.2' 19.2
5.5' 26.4
10' 17.3
15.5' 15.1

SB-2021-017
01/2021
2' 9.77
5' 16.3
10.5' 23.4

SB-09101
09/1994
2' 20.8
5' 14.4
12.5' 24.0

SB-09105
09/1994
2' 11.5
5' 21.8
12.5' 18.5

SB-09106
09/1994
2' 111
5' 20.5
12.5' 15.9

MW-71
02/2021
1.5' 9.91
5' 19.1
8.5' 21.2

SB-08916
09/1994
2' 14.6
5' 13.8
12.5' 14.3

SB-08918
09/1994
2' 13.5
5' 15.9
12.5' 21.1

SB-08921
09/1994
2' 11.7
5' 12.6
12.5' 16.9

SB-08923
09/1994
2' 16.1
5' 15.2
12.5' 19.4

SB-2021-046
01/2021
2' 11.0
5.6' 9.35
7' 14.6
13.9' 16.2

MW-59
02/2021
1' 10.4
6.5' 10.4
9.5' 17.9

MW-55
02/2021
1.5' 12.0
5.5' 18.7
9.5' 24.2
15.5' 11.4

MW-76
01/2021
1.5' 13.4
5' 25.9
15.5' 14.6

MW-22R
02/2021
1' 11.2
5.5' 15.9
9' 20.0
15.5' 9.50
20.5' 13.7

JSA-HA-1
03/1992
7.5' 7.00

FB-2
10/2007
1'-3' <0.0200
3'-5' <0.0200

MW-58
01/2021
1.5' 12.1
5.5' 10.8
8.4' 13.3

SB-2020-001
11/2020
2.2' 17.3
6.8' 9.36

MW-57
01/2021
5' 21.7
6' 9.03
10' 21.2

FB-3
10/2007
1'-3' <0.0200
3'-5' <0.0200

SB-2020-029
11/2020
3.2' 9.84
7.5' 10.7

MW-56
02/2021
1' 15.8
5.5' 22.3
8' 9.83

SB-2021-027
01/2021
2..2' 23.6
5.3' 21.2
10' 21.2

FB-1
10/2007
6'-8' <0.0200
8'-10' <0.0200

MW-75
01/2021
1.5' 12.0
6' 9.88
8.5' 16.6

SB-2021-002
01/2021
3' 21.9
6' 10.8

SB-2020-028
11/2020
2.3' 23.0
6.8' 8.88

SB-2020-045
11/2020
2.8' 10.0
7.2' 8.50

MW-10R
02/2021
2' 13.8
5.4' 9.23
9' 19.3

NT-SS-13
08/2023
5' 7.9

SB-2021-039
01/2021
2' 11.1
7.4' 16.7
10.7' 19.6

MW-45
02/2009
11' 9.80
17' 7.40
29' 8.00
40' 6.80

SB-2020-004
11/2020
2.5' 11.5
8.0' 7.53
13.0' 13.9
17.0' 7.59
21.0' 7.98
27.0' 8.78

SB-2021-038
01/2021
2' 12.0
6.9' 9.34
7.6' 11.2

MW-62
01/2021
1' 12.6
5' 17.0
8.6' 16.7

NT-SS-18
08/2023
5' 7.7

NT-SS-35
08/2023
6.5' 8.7

NT-SS-31
08/2023
6.5' 7.2

NT-SS-34
08/2023
6.5' 7

NT-SS-17
08/2023
5' 9.3

NT-piping-SS-24
08/2023
2' 100

SB-2021-009
01/2021
2' 10.4
6' 9.43
10.8' 21.6
13.3' 11.9

HA-2020-008
11/2020
0.0' 148
0.5' 12.1

SB-2021-003
01/2021
2' 17.3
10.3' 19.4
11.5' 20.4

MW-41
07/2008
5' 7.70
10' 18.0
20' 4.50
30' 6.10

ST-piping-SS-20
10/2023
6.5' 25

DM-B-12
03/1990
13.5' 8.85

MW-73
02/2021
3.2' 11.5
7' 10.4
11' 14.4
15' 12.0
17.7' 8.67

MW-72
02/2021
1' 10.0
5' 12.3
10.9' 15.9
15' 11.8

SB-2021-010
01/2021
1.5' 10.5
6' 10.0
11' 10.4

HA-2020-002
11/2020
0.0' 2330
0.5' 3650

HA-2020-003
11/2020
0.0' 1400
0.2' 2430
0.7' 1630

HA-2020-004
11/2020
0.0' 944
0.2' 889
0.7' 143

MW-64
01/2021
5.2' 11.0
9' 9.25
14' 9.15

HA-2020-007
11/2020
0.0' 673J*
0.25' 469
0.8' 528

MW-60
02/2021
1.5' 11.3
5' 11.2
9' 18.2

MW-13
08/1992
6'-6.5' 9.70

MW-61
02/2021
1.5' 89.6
6' 9.34
11' 22.3
16' 12.4

ST-piping-SS-22
10/2023
2' 20

ST-SS-7
08/2023
8.5' 7.7

ST-SS-17
08/2023
6.5' 8.3

ST-SS-15
08/2023
6.5' 7.1

ST-SS-8
08/2023
8.5' 7.9

SB-2021-040
01/2021
2' 10.9
5' 11.5
10.4' 13.8

HA-2020-005
11/2020
0.0' 5330
0.5' 373

SB-2021-006
01/2021
10' 22.3
1.5' 28.6
6' 9.89

HA-2020-006
11/2020
0.0' 5690
0.3' 6620
0.8' 2490

ST-piping-SS-21
10/2023
2' 55

SB-2021-012
01/2021
2' 11.3
3.4' 12.1
10.4' 26.3

MW-38
02/2009
5' 15.0
9.5' 940
15.5' 11.0

SB-2021-047
02/2021
1.5' 28.3
7.1' 14.2
10.5' 10.4

MW-37
02/2009
6' 35.0
11' 36.0
15.5' 29.0

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

0 100 Feet

Analyte Result Key

T2B2 — *Sample Location Name*
3/2012 — *Sample Date*
2'-4' 220 — *Depth : Result*
2'-4' 220 — *Depth : Result (Detected)*
4'-6' 820 — *Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220 — *Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the simplified Terrestrial Ecological Evaluation value for industrial/commercial properties from MTCA Table 749-2 (PCUL).
4. The PCUL for chromium is 135 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

CHROMIUM IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 39A

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/13/2024 KAC

PL2-JF01AR
05/2001 <5.00 <5.00
07/2001 <5.00 <5.00
10/2001 <5.00 <5.00
01/2002 <5.00 <5.00
06/2003 <5.00 <5.00
09/2003 <5.00 <5.00
12/2003 <5.00 <5.00
12/2003 <5.00 ----
02/2004 **6.00 8.00**
05/2004 <5.00 <5.00
08/2004 <5.00 <5.00
09/2004 <5.00 ----
11/2004 <5.00 <5.00
02/2005 <5.00 <5.00
05/2005 <5.00 <5.00
08/2005 **6.00 6.00**
10/2005 <5.00 <5.00
02/2006 <5.00 <5.00
05/2006 <5.00 <5.00
07/2006 <5.00 <5.00
08/2006 <2.00 <5.00
11/2006 **6.00 5.00**
02/2007 **2.00** <1.00
05/2007 <5.00 <5.00
08/2007 <5.00 <5.00
11/2007 <5.00 **6.00**
01/2008 ---- <10.0
02/2008 <5.00 <5.00
05/2008 <5.00 <5.00
08/2008 <5.00 <5.00
02/2009 <5.00 <5.00
08/2009 <5.00 **5.00**
02/2010 <5.00 <5.00
08/2010 <5.00 <5.00

MW-5
03/1990 **48.0** ----
01/2008 ---- <10.0
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0

PL2-JF01A
03/1995 <5.00 <5.00
09/1995 <5.00 ----
11/1995 <5.00 ----
03/1996 <5.00 ----
05/1996 <5.00 ----
08/1996 <5.00 ----
11/1996 <5.00 ----

MW-69
02/2021 **1.37 0.541**
05/2021 **1.48** <0.520
08/2021 **1.41 0.549**
12/2021 **1.90 0.794**

MW-70
02/2021 **4.57D 3.13D**
05/2021 **7.59D 6.14D**
08/2021 **1.67D 0.486J**
11/2021 **1.08 0.517**

MW-51
08/2017 **1.66 1.45**
02/2018 **1.64J 0.684J**

PL2-JF04A
08/2006 <5.00 <1.00
01/2008 ---- <10.0

MW-66
02/2021 <0.260 **0.147J**
05/2021 <0.260 <0.260
08/2021 <0.260 <0.260
11/2021 <0.520 <0.520

MW-71
02/2021 **0.570J, D** <0.130
05/2021 **0.685** <0.260
08/2021 **0.610J, D** <0.260
11/2021 **0.309J** <0.260

MW-55
02/2021 **0.219J** <0.130
05/2021 <0.520 <0.260
08/2021 **0.407J** <0.260
11/2021 <0.260 <0.260

MW-24
01/2008 ---- <10.0
02/2009 ---- **14.0**
08/2017 **11.4 11.4**
02/2018 **2.46 1.14**

MW-49
02/2009 ---- <10.0
02/2018 **0.632J 0.302J**

MW-59
02/2021 <0.650 **0.205J**
05/2021 **0.354J** <0.260
08/2021 <0.260 <0.260
11/2021 **0.561** <0.260

MW-23
11/1992 <100 ----
01/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 **0.636** <0.650
02/2018 **0.609** <1.30
02/2021 **0.468J, D** <0.260
05/2021 <2.60 <2.60
08/2021 **0.601 0.444J**
11/2021 <1.30 <1.30

MW-25
01/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 **1.43J**** <0.130
02/2018 **1.57** <0.130

MW-48
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **0.309J** <0.650
02/2018 **0.292J** <0.130

MW-58
02/2021 **0.608J, D** <0.260
05/2021 **1.04** <1.30
08/2021 **0.904J, D** <0.260

MW-9
01/2008 ---- <10.0
08/2017 **0.472J 5.34**
02/2018 **1.61** <0.130

MW-52
08/2017 **0.854J** <0.260
02/2018 **0.834J 0.815J**

MW-50
08/2017 **0.877 0.525**
02/2018 **1.30 0.555**

MW-76
02/2021 **0.386J, D 0.148J**
05/2021 **0.947** <0.260
08/2021 <0.520 <0.260
11/2021 **0.297J** <0.520

MW-53
02/2021 **0.618J, D** <1.00 B*
05/2021 **0.306J** <0.260
09/2021 <0.260 <0.260
12/2021 **0.626** <0.260

PL2-JF03A
09/1995 <5.00 ----
11/1995 <5.00 ----
03/1996 <5.00 ----
05/1996 <5.00 ----
08/1996 <5.00 ----
11/1996 <5.00 ----
04/2001 <5.00 <5.00
07/2001 <5.00 <5.00
10/2001 <5.00 <5.00
01/2002 <5.00 <5.00
06/2003 <5.00 <5.00
12/2003 <5.00 <5.00
11/2004 <5.00 <5.00
05/2005 <5.00 <5.00

MW-56
02/2021 **0.358J, D 0.189J**
05/2021 **0.438J** <1.30
08/2021 **0.770** <0.260
11/2021 **0.461J 0.261J**

MW-30
01/2008 ---- <10.0
08/2017 **0.419J** <0.260
02/2018 **0.432J** <0.130

MW-57
02/2021 **2.69D 1.84D**
05/2021 **2.29 1.20**
08/2021 **1.45 0.845**
11/2021 **1.12 0.679**

MW-8
03/1990 <4.20 ----
01/2008 ---- <10.0
02/2009 ---- <10.0
02/2018 <0.130 <0.130

MW-4
01/2008 ---- <10.0
02/2018 **0.370J 0.158J**

MW-3
01/2008 ---- <10.0

PL2-JF01B
03/1995 <5.00 <5.00
09/1995 <5.00 ----
11/1995 <5.00 ----
03/1996 <5.00 ----
05/1996 <5.00 ----
08/1996 <5.00 ----
11/1996 <5.00 ----
04/2001 <5.00 <5.00
07/2001 <5.00 <5.00
10/2001 <5.00 <5.00
01/2002 <5.00 <5.00
06/2003 <5.00 <5.00
09/2003 <5.00 <5.00
12/2003 <5.00 ----
02/2004 <5.00 <5.00
05/2004 <10.0 <10.0
09/2004 <5.00 ----
11/2004 <5.00 <5.00
02/2005 <5.00 <5.00
05/2005 <10.0 <10.0
08/2005 **10.0 12.0**
10/2005 <5.00 <5.00
02/2006 <5.00 <20.0
05/2006 <5.00 <5.00
07/2006 <5.00 <5.00
08/2006 **0.600** <2.00
11/2006 **8.00 8.00**
02/2007 <1.00 <1.00
05/2007 <5.00 <5.00
08/2007 <5.00 <5.00
11/2007 <5.00 **6.00**
01/2008 ---- <10.0
02/2008 <5.00 <5.00
05/2008 <5.00 <5.00
08/2008 <5.00 <5.00
02/2009 <5.00 <5.00
08/2009 <5.00 <5.00
02/2010 <5.00 <5.00
08/2010 <5.00 <5.00

MW-65
02/2021 <0.260 <0.130
05/2021 <0.260 <0.260
09/2021 <0.260 <0.260
11/2021 **1.32** <0.260

PL2-JF01C
05/2001 **10.0** <10.0
07/2001 **8.00** <5.00
10/2001 <5.00 <5.00
01/2002 <5.00 <5.00
06/2003 <10.0 <10.0
12/2003 **10.0** <10.0
12/2003 <10.0 ----
09/2004 <10.0 ----
11/2004 <10.0 <10.0
02/2005 <20.0 <20.0
05/2005 <50.0 <50.0
08/2005 **60.0 60.0**
10/2005 <10.0 <10.0
02/2006 <20.0 <5.00
07/2006 <10.0 <20.0
08/2006 <2.00 <2.00
11/2006 **10.0** <10.0
02/2007 **4.00 2.00**
08/2007 <10.0 <20.0
11/2007 **20.0** <20.0
01/2008 ---- <10.0
05/2008 <10.0 <10.0
08/2008 <10.0 <20.0
08/2009 <10.0 <10.0
08/2010 <10.0 <10.0

PL2-JF02A
09/1995 <5.00 ----
11/1995 <5.00 ----
03/1996 <5.00 ----
05/1996 <5.00 ----
08/1996 <5.00 ----
11/1996 <5.00 ----
04/2001 <5.00 <5.00
07/2001 <5.00 <5.00
10/2001 <5.00 <5.00
01/2002 <5.00 <5.00
06/2003 <5.00 <5.00
09/2003 <5.00 <5.00
12/2003 <5.00 <5.00
02/2004 **6.00 6.00**
05/2004 <5.00 <5.00
11/2004 <5.00 <5.00
02/2005 <5.00 <5.00
05/2005 **8.00** <5.00
08/2005 **6.00 6.00**
10/2005 <5.00 <5.00
02/2006 <5.00 <5.00
05/2006 <5.00 <5.00
07/2006 <5.00 <5.00
08/2006 <2.00 <1.00
11/2006 **5.00** <5.00
02/2007 <1.00 <1.00
05/2007 <5.00 <5.00
08/2007 <5.00 <5.00
11/2007 <5.00 <5.00
01/2008 ---- <10.0
02/2008 <5.00 <5.00
05/2008 <5.00 <5.00
08/2008 <5.00 <5.00
02/2009 <5.00 <5.00
08/2009 <5.00 <5.00
02/2010 <5.00 <5.00
08/2010 <5.00 <5.00

MW-47
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
02/2021 **0.258J** <0.130
05/2021 **0.511** <0.260
08/2021 <0.260 <0.260
11/2021 <1.30 <1.30

MW-46
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
02/2018 **1.57 0.490J**
02/2021 **1.23** <0.145 B*
05/2021 <2.60 <2.60
08/2021 <1.30 **0.441J**
11/2021 **1.18 0.805**

MW-54
02/2021 **1.20D 1.04 JH***
05/2021 **0.417J** <0.260
08/2021 <0.520 <0.260
12/2021 **0.764 0.612**

MW-45
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **0.559** <0.650
02/2018 **0.616J** <0.650

MW-62
02/2021 **1.04D** <1.00 B*
05/2021 <1.30 <1.30
08/2021 **0.810** <0.260

MW-75
02/2021 **0.314J, D** <0.260
05/2021 <0.260 <0.260
08/2021 <0.260 <0.260

MW-10
02/2008 ---- <10.0

MW-10R
02/2021 **0.478J, D 0.318J, D**
05/2021 **0.404J** <0.260
08/2021 <0.260 <0.260
11/2021 <0.260 <0.260

MW-14
02/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 <1.30 **0.254J**
02/2018 **0.728** <1.30
02/2021 **0.280J, D** <0.260
05/2021 **0.834J, D 0.740J, D**
08/2021 **0.801 0.436J**
11/2021 **0.664 0.375J**

MW-11
08/2017 <0.933B* **0.388J**
02/2018 **0.888** <0.753B*

MW-6
03/1990 **91.0** ----
01/2008 ---- <10.0
08/2017 **1.76 0.209J**
02/2018 **1.25** <0.517B*

MW-44
02/2009 ---- <10.0
05/2009 ---- **38.0**
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **2.11 1.02**
02/2018 **5.43J* 2.23**

MW-40
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
02/2018 **0.610J 0.158J**

MW-41
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
02/2018 **0.755J** <0.130

MW-63
02/2021 **1.24 J*** <0.130
05/2021 <0.260 <0.260
09/2021 <0.260 <0.260
11/2021 <0.520 <0.260

MW-60
02/2021 **1.57D 0.410J, D**
05/2021 **1.30** <1.30
09/2021 **2.56 0.624**
11/2021 **1.40D 0.864J, D**

MW-61
02/2021 **0.540** <0.357 B*
05/2021 **0.637 0.420J**
09/2021 **1.28 0.774**
12/2021 **0.595 0.360J**

MW-13
09/1992 **90.0** ----

MW-15
01/2008 ---- <10.0
08/2017 **0.289J** <0.130
02/2018 **0.204J** <0.130

MW-72
02/2021 **22.7D 23.5D**
05/2021 **0.874J, D 0.683**
08/2021 **0.919 0.726**
11/2021 <0.260 <0.260

MW-34
02/2008 ---- <10.0

MW-73
02/2021 **1.03D** <0.948 B*
05/2021 **0.708J, D** <1.30
08/2021 **0.967** <0.260
11/2021 **0.841 0.312J**

MW-42
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **2.30 0.238J**
02/2018 **31.7 29.7**
02/2021 **11.0D 12.0D**
05/2021 **10.5 5.29D**
08/2021 **9.97D 0.779**
11/2021 **12.5 12.3**

MW-43
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 <1.00B* **0.346J**
02/2018 <0.514B* <0.533B*

MW-64
02/2021 **3.69D 0.760J, D**
05/2021 **2.73D 0.290J**
09/2021 **0.775 0.282J**
11/2021 **0.858J, D 0.479J**

MW-74
02/2021 **2.25D 1.11 JH***
05/2021 **1.11D** <1.30
09/2021 **0.923 0.856**
11/2021 **1.51 0.524**

MW-32
02/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 <2.50B* **0.264J**
02/2018 **0.181J** <0.130

MW-7
03/1990 **180** ----
02/2008 ---- <10.0
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **0.270J** <0.130
02/2018 **0.430J 0.347J**
02/2021 <0.564 B* **0.436J**
05/2021 **0.833** <0.260
08/2021 <0.260 <0.260
11/2021 <0.520 <0.520

MW-67
02/2021 **4.46 4.23**
05/2021 **1.06 0.715**
08/2021 **1.82 0.743**
12/2021 **4.96 0.451 J***

MW-38
02/2009 ---- <10.0
05/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **0.177J** <0.650
02/2018 <0.260 <0.130

MW-39
02/2009 ---- **120**
05/2009 ---- **56.0**
08/2009 ---- **64.0**
12/2009 ---- **18.0**
08/2017 **22.3 27.4**
02/2018 **93.0 9.44**
02/2021 **13.7D 9.54D**
05/2021 **48.6D 10.4**
08/2021 ---- **11.8JL***
08/2021 **14.9D** ----
11/2021 **11.4 12.3**

MW-68
02/2021 **9.49D 6.57**
08/2021 **5.10D 5.08D**
11/2021 **14.4 12.4**

MW-37
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **1.31 0.715**
02/2018 <0.260 <0.130

MW-36
02/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 **1.28 0.692J**
02/2018 **1.35 0.373J**
02/2021 **1.44D** <1.00 B*
05/2021 **1.25** <5.20
08/2021 **1.31D 0.430J**

LEGEND

- Sample Location
- Sample Location w/ Analytical Result
- NT = not tested

0 100 Feet

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for chromium is 100 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

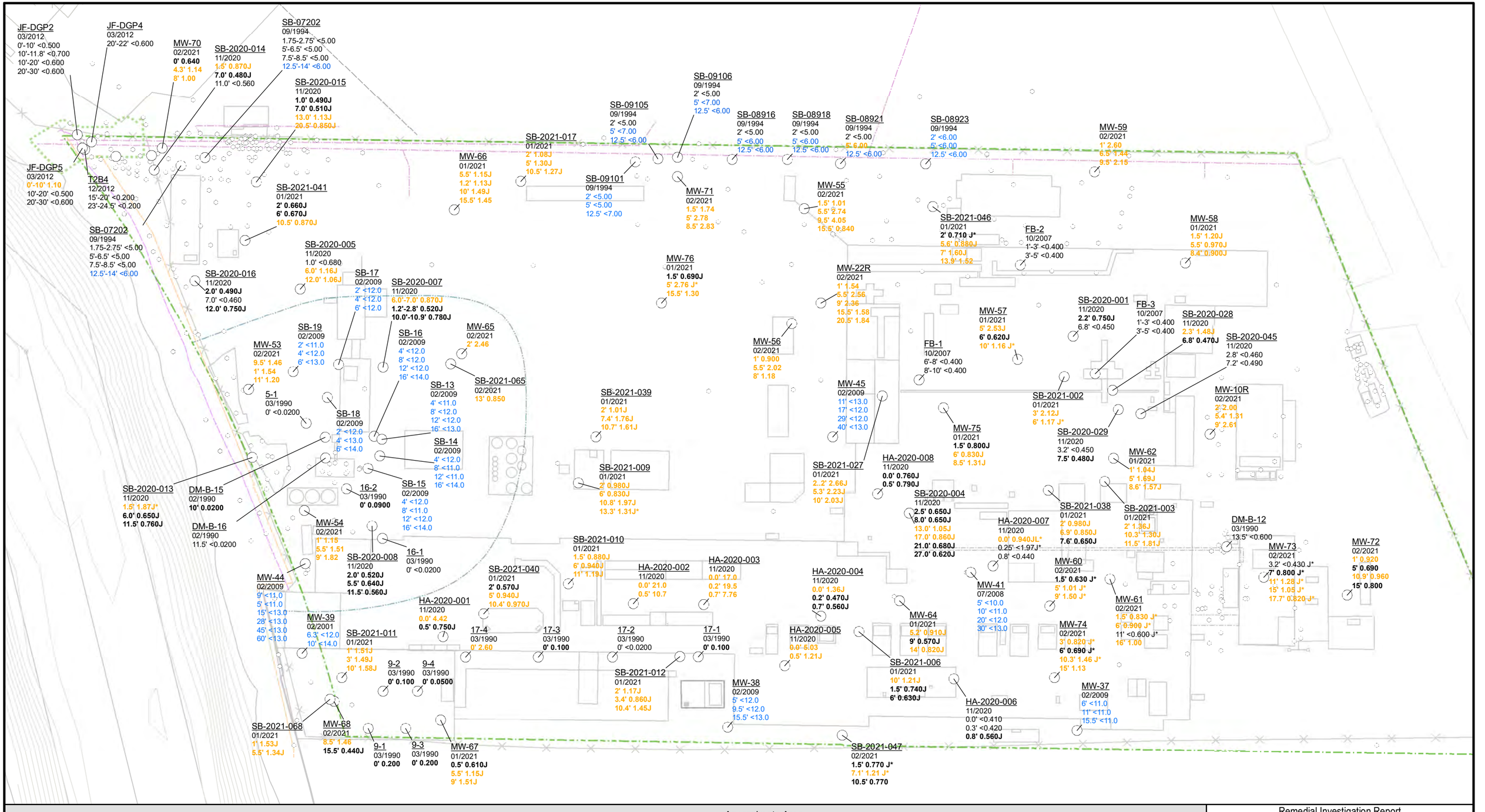
CHROMIUM (TOTAL AND DISSOLVED) IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON **FIG. 39B**

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections have been screened against the simplified TEE value for industrial/commercial properties (MTCA Table 749-2) (PCUL). Detection limits (when not detected) have been screened against the laboratory reporting (RL) from the QAPP.
4. The PCUL for selenium is 0.8 mg/kg. The RL for selenium is 5 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

SELENIUM IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 40A

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/13/2024 KAC

DRAFT FOR PUBLIC COMMENT

PL2-JF01AR
05/2001 <50.0 <50.0
07/2001 <50.0 <50.0
10/2001 <50.0 <50.0
01/2002 <50.0 <50.0
06/2003 <2.00 **0.900**
09/2003 **0.800 0.800**
12/2003 <50.0 <50.0
12/2003 <50.0 ----
02/2004 <50.0 <50.0
05/2004 <50.0 <50.0
08/2004 <50.0 <50.0
09/2004 <50.0 ----
11/2004 <50.0 <50.0
02/2005 <50.0 <50.0
05/2005 <50.0 <50.0
08/2005 <50.0 <50.0
10/2005 <50.0 <50.0
02/2006 <50.0 <50.0
05/2006 <50.0 <50.0
07/2006 <50.0 <50.0
08/2006 <50.0 <50.0
11/2006 <50.0 <50.0
02/2007 <50.0 <50.0
05/2007 <50.0 <50.0
08/2007 <50.0 <50.0
11/2007 <50.0 <50.0
05/2008 <50.0 <50.0
02/2009 <50.0 <50.0
02/2010 <50.0 <50.0
08/2010 <50.0 <50.0
01/2011 **0.137 0.0860**
08/2011 **0.137 0.128**
02/2012 <0.270 <0.270
08/2012 <0.180 **0.190J**
01/2013 <0.500 <0.500
08/2013 <0.500 <0.500

PL2-JF01A
03/1995 <50.0 <50.0
09/1995 <50.0 ----
11/1995 <50.0 ----
03/1996 <50.0 ----
05/1996 <50.0 ----
08/1996 <50.0 ----
11/1996 <50.0 ----

MW-69
02/2021 **0.478J** <0.440
05/2021 **0.221J** <0.179
08/2021 <0.179 <0.179
12/2021 **0.380J** <0.179

MW-70
02/2021 **6.12D 7.23D**
05/2021 **3.91J, D 2.75J, D**
08/2021 **0.271J** <0.179
11/2021 **0.686 0.379J**

MW-51
08/2017 <0.440 <0.440
02/2018 <0.440 <0.440

PL2-JF02A
09/1995 <50.0 ----
11/1995 <50.0 ----
03/1996 <50.0 ----
05/1996 <50.0 ----
08/1996 <50.0 ----
11/1996 <50.0 ----
04/2001 <50.0 <50.0
07/2001 <50.0 <50.0
10/2001 <50.0 <50.0
01/2002 <50.0 <50.0
06/2003 <2.00 <2.00
09/2003 <2.00 **2.00**
12/2003 <50.0 <50.0
02/2004 <50.0 <50.0
05/2004 <50.0 <50.0
11/2004 <50.0 <50.0
02/2005 <50.0 <50.0
05/2005 <50.0 <50.0
08/2005 <50.0 <50.0
10/2005 <50.0 <50.0
02/2006 <50.0 <50.0
05/2006 <50.0 <50.0
07/2006 <50.0 <50.0
08/2006 <50.0 <50.0
11/2006 <50.0 <50.0
02/2007 <50.0 <50.0
05/2007 <50.0 <50.0
08/2007 <50.0 <50.0
11/2007 <50.0 <50.0
02/2009 <50.0 <50.0
08/2010 <50.0 <50.0
01/2011 **0.0990** <0.0650
08/2011 **0.121 0.0770**
02/2012 <0.270 <0.270
08/2012 <0.180 <0.180
01/2013 <0.500 <0.500
08/2013 <0.500 <0.500

PL2-JF04A
08/2006 <50.0 <50.0

MW-5
03/1990 **0.300** ----

MW-50
08/2017 <0.440 <0.440
02/2018 <0.440 <0.440

MW-52
08/2017 <0.440 <0.440
02/2018 <0.440 <0.440

MW-66
02/2021 ---- <0.440
05/2021 <0.179 <0.179
08/2021 <0.179 <0.179
11/2021 <0.179 <0.179

MW-71
02/2021 <0.880 <0.440
05/2021 <0.179 <0.179
08/2021 <0.179 <0.179
11/2021 <0.179 **0.662J, D**

MW-55
02/2021 <0.440 <0.440
05/2021 **0.287J 0.271J**
08/2021 **0.206J** <0.179
11/2021 **0.381J 0.240J**

MW-24
08/2017 **0.971 0.972**
02/2018 <0.880 <0.440

MW-49
02/2018 <0.880 <0.440
02/2021 <0.440 <0.440
05/2021 **0.377J** <0.179
08/2021 <0.179 **0.242J**
12/2021 **0.198J** <0.179

MW-59
02/2021 <0.440 <0.440
05/2021 <0.179 <0.179
08/2021 <0.179 <0.179
11/2021 **0.420J 0.338J**

MW-23
11/1992 <500 ----
08/2017 <0.440 <0.880
02/2018 <0.440 <0.440

MW-25
08/2017 <0.440 <0.440
02/2018 <0.880 <0.440

MW-58
02/2021 <0.440 <0.440
05/2021 **0.514** <0.179
08/2021 <0.358 <0.179

MW-9
08/2017 <0.440 <0.440
02/2018 **0.671** <0.440

MW-76
02/2021 <0.440 <0.440
05/2021 <0.179 <0.179
08/2021 <0.179 <0.179
11/2021 <0.179 <0.179

MW-48
08/2017 <0.440 <2.20
02/2018 <0.880 <0.440

MW-56
02/2021 <0.440 <0.440
05/2021 <0.179 <0.179
08/2021 <0.179 <0.179
11/2021 <0.179 <0.179

MW-30
08/2017 <0.440 <0.440
02/2018 <0.880 <0.440

MW-57
02/2021 <0.440 <0.440
05/2021 **0.533 0.311J**
08/2021 <0.179 **0.253J**
11/2021 **0.201J** <0.179

MW-4
02/2018 <0.440 <0.440
02/2021 <0.440 **0.443J**
05/2021 **0.225J** <0.179
08/2021 <0.179 **0.404J**
11/2021 **0.322J 0.213J**

MW-65
02/2021 <0.880 <0.440
05/2021 <0.179 <0.179
09/2021 <0.179 <0.179
11/2021 **0.232J** <0.179

MW-31
08/2017 <0.440 <0.880
02/2018 <0.440 <0.440

MW-75
02/2021 <0.440 <0.440
05/2021 <0.179 <0.358
08/2021 <0.179 **0.370J**

MW-8
02/2018 <0.440 <0.440
02/2021 <0.440 <0.440
05/2021 <0.179 **0.646J, D**
08/2021 **0.198J 0.392J**

MW-53
02/2021 <0.440 <0.440
05/2021 <0.179 <0.179
09/2021 <0.179 <0.179
12/2021 **0.430J** <0.573 B*

PL2-JF01C
05/2001 **110 120**
07/2001 <50.0 **70.0**
10/2001 **90.0 90.0**
01/2002 <50.0 <50.0
06/2003 **12.0 12.0**
12/2003 <100 <100
12/2003 <100 ----
09/2004 <100 ----
11/2004 <0.113 ----
02/2005 <200 <200
05/2005 **0.0820** <0.0400J
08/2005 **0.177 0.171**
10/2005 **0.257 0.238**
02/2006 **0.225 0.190**
07/2006 **0.166 0.167**
08/2006 <100 <100
11/2006 **0.310 0.225**
02/2007 **0.253 0.217**
08/2007 **0.310 0.258**
11/2007 **0.218 0.201**
05/2008 **0.266 0.245**
08/2010 **0.303 110**
01/2011 **0.762 0.243**
08/2011 **0.533 0.424**
08/2012 <2.00 <20.0
08/2013 <2.00 <2.00

PL2-JF01B
03/1995 <50.0 <50.0
09/1995 <50.0 ----
11/1995 <50.0 ----
03/1996 <50.0 ----
05/1996 <50.0 ----
08/1996 <50.0 ----
11/1996 <50.0 ----
04/2001 <50.0 <50.0
07/2001 **50.0 60.0**
10/2001 **50.0** <50.0
01/2002 **50.0** <50.0
06/2003 **2.00 3.00**
09/2003 **1.90 1.40**
12/2003 <50.0 <50.0
12/2003 <50.0 ----
02/2004 <50.0 <50.0
05/2004 <100 <100
08/2005 <50.0 <50.0
10/2005 <50.0 <50.0
02/2006 <50.0 <250
05/2006 <50.0 <50.0
07/2006 <50.0 <50.0
08/2006 <50.0 <50.0
11/2006 <50.0 <50.0
02/2007 <50.0 <50.0
05/2007 <50.0 <50.0
08/2007 <50.0 <50.0
11/2007 <50.0 <50.0
05/2008 <50.0 <50.0
02/2009 <50.0 <50.0
08/2010 <50.0 <50.0
01/2011 **0.0960** <0.0650
08/2011 **0.198 0.150**
02/2012 <0.270 <0.270
08/2012 **0.310J 0.270J**
01/2013 <0.500 <0.500
08/2013 **0.540J** <0.500

MW-46
02/2018 <0.440 <0.440
02/2021 <0.440 <0.440
05/2021 <0.179 <0.179
08/2021 **0.199J** <0.179
11/2021 **0.399J 0.314J**

MW-54
02/2021 **1.35 1.05**
05/2021 **1.28 1.16**
08/2021 **1.77 1.66**
12/2021 **1.59 1.31**

PL2-JF03A
09/1995 <50.0 ----
11/1995 <50.0 ----
03/1996 <50.0 ----
05/1996 <50.0 ----
08/1996 <50.0 ----
11/1996 <50.0 ----
04/2001 <50.0 <50.0
07/2001 <50.0 <50.0
10/2001 <50.0 <50.0
01/2002 <50.0 <50.0
06/2003 <0.500 <0.500
12/2003 <50.0 <50.0
11/2004 <50.0 <50.0
05/2005 <50.0 <50.0
10/2005 <50.0 <50.0

MW-6
03/1990 **0.800** ----
08/2017 <0.440 <0.440
02/2018 **1.31 0.855**

MW-42
08/2017 <0.440 <0.440
02/2018 **0.578 0.619**

MW-43
08/2017 <0.440 <0.440
02/2018 <0.440 <0.440

MW-44
08/2017 **0.545 0.529**
02/2018 **2.63 4.02**

MW-39
08/2017 <4.40 <4.40
02/2018 **1.46** <0.440

MW-67
02/2021 **2.05 2.19**
05/2021 **1.13 1.16**
08/2021 **0.704 0.470J**
12/2021 **3.36 3.05**

MW-68
02/2021 **2.15 2.01**
08/2021 **0.608J, D 0.628J, D**
11/2021 **2.00 1.58 J***

MW-38
08/2017 **0.646** <2.20
02/2018 **0.910J 0.771**

MW-45
08/2017 <0.440 <2.20
02/2018 <0.440 <0.440

MW-40
02/2018 <0.440 <0.440
02/2021 **1.92 1.85**
05/2021 **0.202J 0.235J**
09/2021 **0.204J** <0.179
11/2021 **0.292J 0.353J***

MW-41
02/2018 <2.20 <0.440
02/2021 <0.440 <0.440
05/2021 <0.179 <0.179
09/2021 <0.179 <0.179

MW-63
02/2021 **0.942 J* 0.854**
05/2021 <0.179 <0.179
09/2021 <0.179 <0.179
11/2021 <0.179 <0.179

MW-64
02/2021 <0.440 <0.440
05/2021 **0.530J, D 0.454J**
09/2021 <0.179 <0.179
11/2021 <0.179 <0.179

MW-60
02/2021 <0.880 <0.440
05/2021 <0.179 <0.179
09/2021 <0.179 <0.179
11/2021 <0.358 <0.179

MW-74
02/2021 <0.440 <0.440
05/2021 **0.286J** <0.179
09/2021 <0.179 <0.179
11/2021 **0.294 J* 0.266 J***

MW-61
02/2021 **0.683 0.797**
05/2021 **0.472J 0.296J**
09/2021 **0.302J 0.192J**
12/2021 **0.354J** <0.500 B*

MW-36
08/2017 <0.440 <0.440
02/2018 <0.440 <0.440
02/2021 <0.440 <0.440
05/2021 **0.247J 0.214J**
08/2021 **0.287J** <0.179

MW-37
08/2017 <0.440 <0.440
02/2018 <0.880 **0.503**
02/2021 **0.763 0.754**
05/2021 **0.589 0.432J**
09/2021 <0.179 <0.179
12/2021 **1.09 0.897**

MW-32
08/2017 <0.440 <0.440
02/2018 <0.880 <0.440

MW-62
02/2021 <0.440 <0.440
05/2021 **0.338J 0.414J**
08/2021 <0.179 <0.179

MW-10R
02/2021 <0.440 <0.440
05/2021 <0.179 <0.179
08/2021 <0.179 <0.179
11/2021 **0.296J 0.194J**

MW-11
08/2017 <0.440 <0.440
02/2018 <0.440 <0.440

MW-14
08/2017 <0.440 <0.440
02/2018 <0.440 <0.440
02/2021 <0.440 <0.440
05/2021 <0.179 <0.179
08/2021 **0.203J** <0.179
11/2021 **0.385J 0.445J**

MW-15
08/2017 <0.440 <0.440
02/2018 <0.440 <0.440

MW-72
02/2021 **79.7 77.0**
05/2021 **0.301J** <0.179
08/2021 **0.210J** <0.179
11/2021 <0.179 <0.179

MW-73
02/2021 <0.440 <0.440
05/2021 **1.24D** <0.179
08/2021 **0.368J** <0.179
11/2021 **0.508** <0.179

MW-7
03/1990 **2.00** ----
08/2017 <0.440 <0.440
02/2018 <0.440 <0.440

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for selenium is 71 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

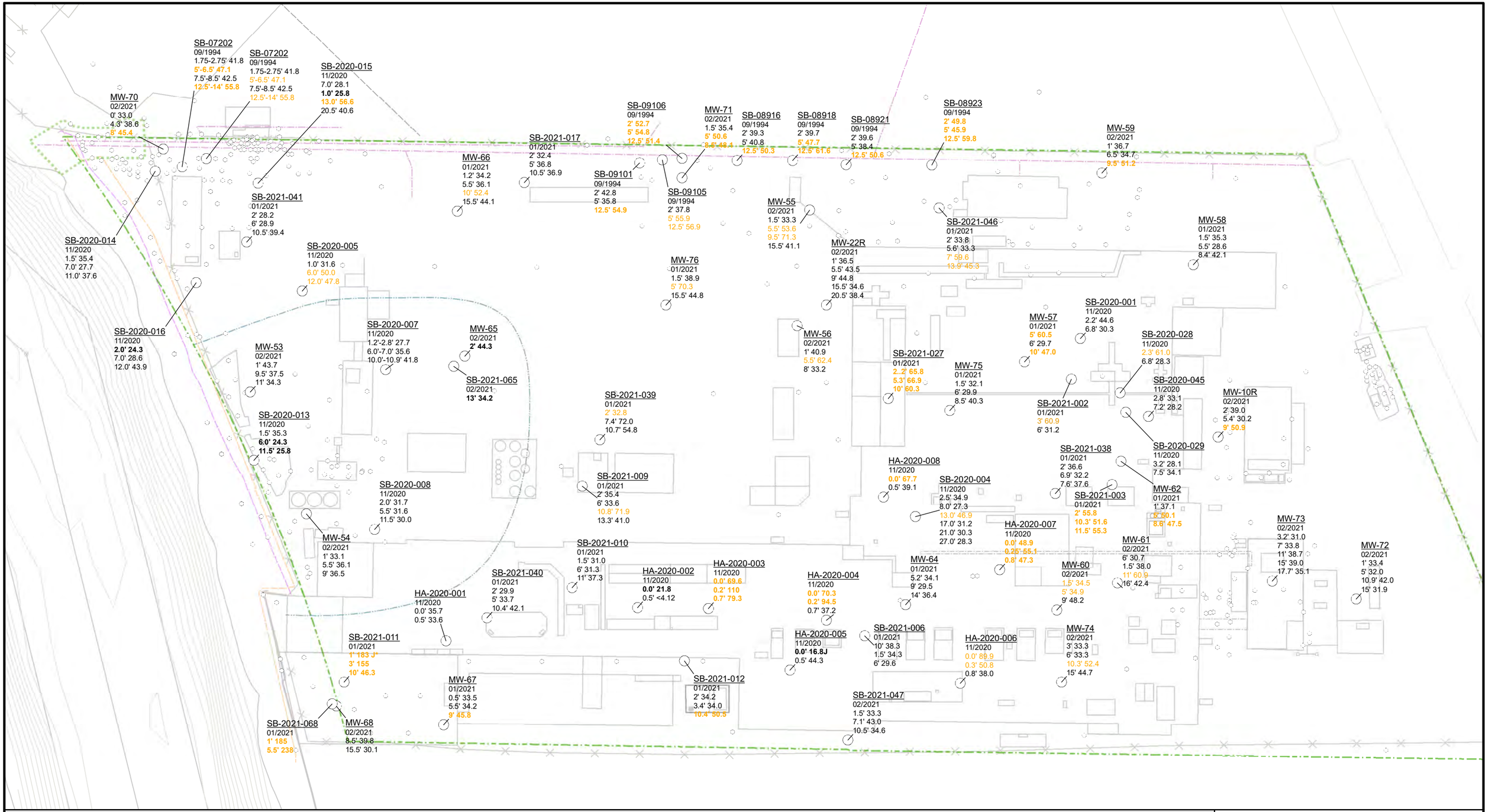
SELENIUM (TOTAL AND DISSOLVED) IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 40B

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC

DRAFT FOR PUBLIC COMMENT



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections have been screened against the simplified TEE value for industrial/commercial properties from MTCA Table 749-2 (PCUL). Detection limits (when not detected) screened against the laboratory reporting (RL) from the QAPP.
4. The PCUL for vanadium is 45 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

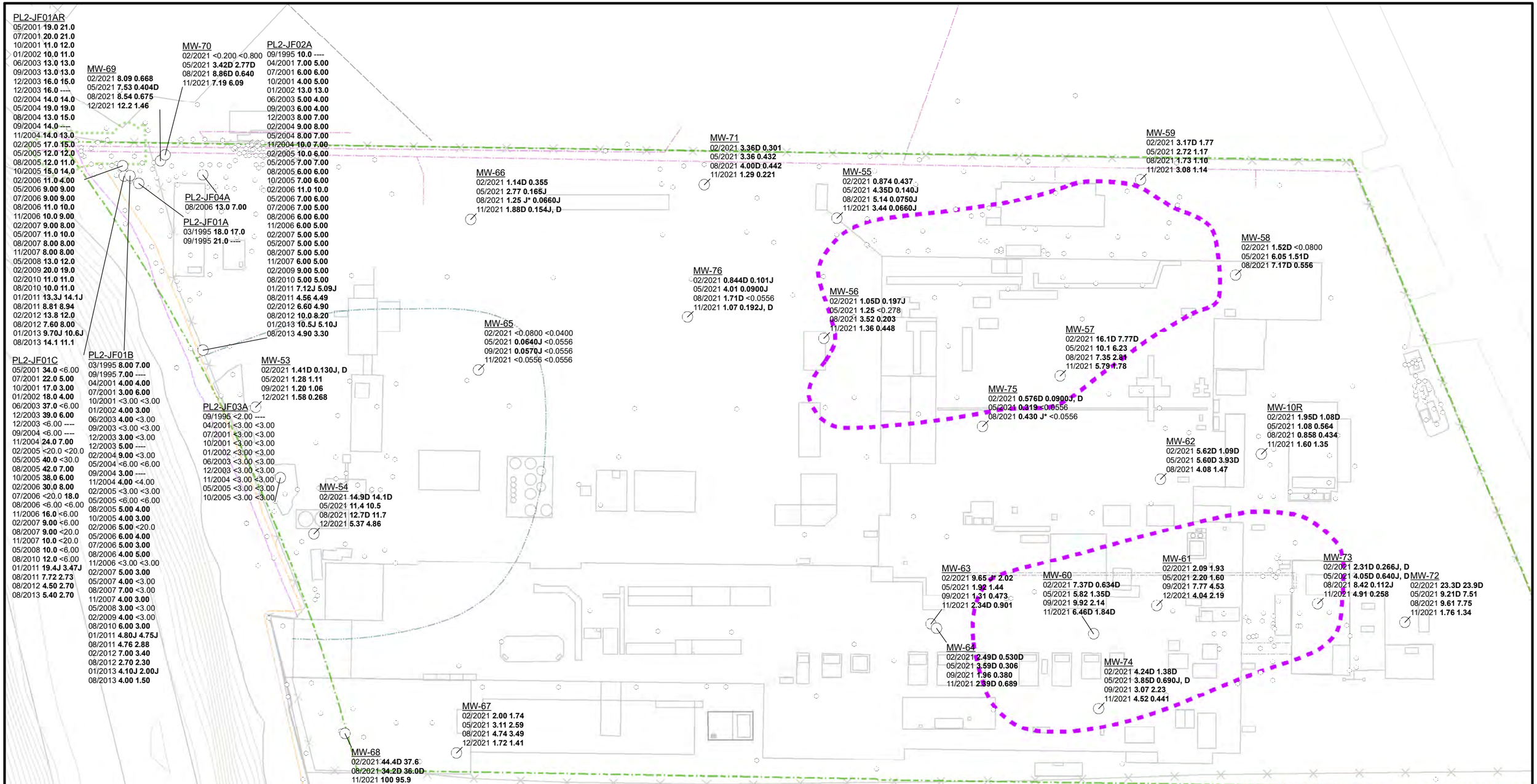
VANADIUM IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 41A

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/13/2024 KAC



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for vanadium is 140 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

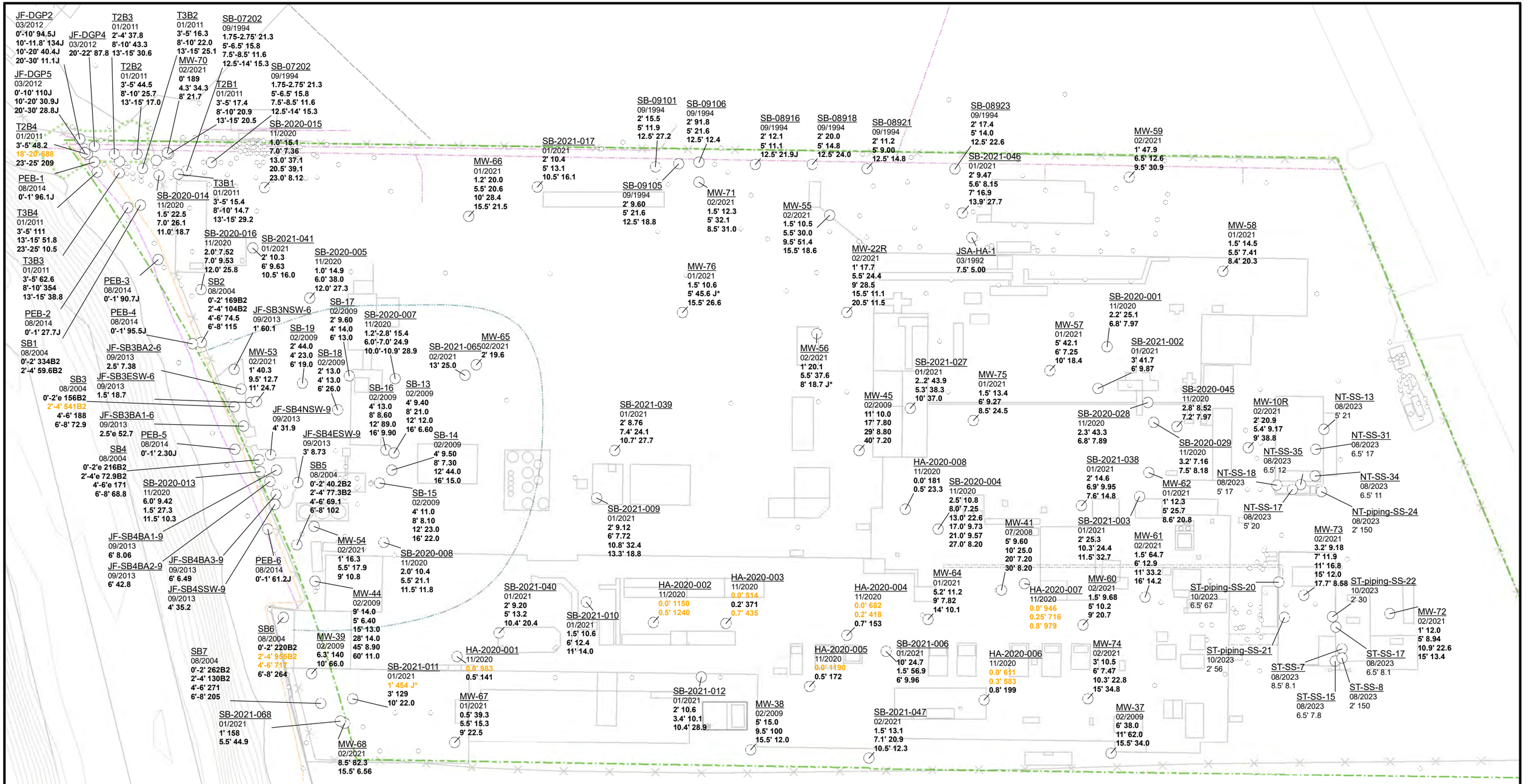
VANADIUM (TOTAL AND DISSOLVED) IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 41B

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*
3/2012 *Sample Date*
2'-4' 220 *Depth : Result*
2'-4' 220 *Depth : Result (Detected)*
4'-6' 820 *Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220 *Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the soil preliminary cleanup level based on bank erosion (PCUL).
4. The PCUL for copper is 390 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

COPPER IN SOIL

September 2024 21-1-12596-40

SHANNON & WILSON FIG. 42A

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/13/2024 KAC

PL2-JF01AR
05/2001 **2.00** <0.500
07/2001 <0.500 <0.500
10/2001 **0.600 0.500**
01/2002 <0.500 **0.500**
06/2003 <0.500 **0.500**
09/2003 **0.900 0.900**
12/2003 **0.700** <0.500
12/2003 **0.600** ----
02/2004 **1.00 0.500**
05/2004 <0.500 <0.500
08/2004 <0.500 <0.500
09/2004 <0.500 ----
11/2004 <0.700 <0.500
02/2005 **0.500** <0.500
05/2005 **1.70** <0.500
08/2005 <1.40 <0.500
10/2005 <0.500 <0.500
02/2006 <0.500 **1.00**
05/2006 <0.500 **0.700**
07/2006 <0.500 <0.500
08/2006 <0.500 <0.500
11/2006 <1.00 <1.00
02/2007 <1.00 **2.00**
05/2007 <0.500 <0.500
08/2007 **0.700** <0.500
11/2007 **2.00 0.500**
01/2008 ---- <10.0
02/2008 <0.800 <0.500
05/2008 <0.500 <0.500
08/2008 <0.500 <0.500
02/2009 **0.700J** <0.500
08/2009 **0.700** <0.500
02/2010 **0.700 0.500**
08/2010 <0.500 <0.500
01/2011 <0.910 <0.910
08/2011 **0.660J 0.380J**
02/2012 <0.380 <0.380
08/2012 **0.220J** <0.150J
01/2013 **1.90J 1.50J**
08/2013 <0.400 <0.400

PL2-JF01C
05/2001 30.0 <2.00
07/2001 23.0 <2.00
10/2001 14.0 **3.00**
01/2002 15.0 <5.00
06/2003 36.0 <2.00
12/2003 28.0 <2.00
12/2003 **3.00** ----
09/2004 **3.00** ----
11/2004 20.0 4.00
02/2005 8.00 <2.00
05/2005 25.0 <2.00
08/2005 35.0 <2.00
10/2005 28.0 <2.00
02/2006 19.7 <1.30
07/2006 15.0 <2.00
08/2006 4.00 **3.00**
11/2006 13.0 **2.00**
02/2007 8.00 **2.00**
08/2007 8.00 <2.00
11/2007 5.00 <2.00
01/2008 ---- <10.0
05/2008 11.0 <2.00
08/2008 9.00 **2.00**
08/2009 7.00 <2.00
08/2010 9.00 <5.00
01/2011 13.2 <0.910
08/2011 4.94J **1.00J**
08/2012 <20.0J <20.0J
08/2013 4.10 <2.00

PL2-JF01A
03/1995 <2.00 <2.00
09/1995 <2.00 ----
11/1995 <2.00 ----
03/1996 **2.00** ----
05/1996 <2.00 ----
08/1996 <2.00 ----
11/1996 <2.00 ----

MW-5
01/2008 ---- <10.0
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0

MW-70
02/2021 <3.40 <1.70
05/2021 <1.73 <1.73
08/2021 **0.718** <0.173
11/2021 3.61 **1.99**

MW-69
02/2021 **0.596** <0.340
05/2021 **0.448J** <0.173
08/2021 **0.757** <0.173
12/2021 **1.03** <0.173

MW-51
08/2017 **0.519 0.462J**
02/2018 <0.500B* <0.340

PL2-JF04A
08/2006 <0.500 <1.40
01/2008 ---- <10.0

MW-52
08/2017 **0.677J*** <0.340
02/2018 <0.340 <0.340

MW-50
08/2017 <0.340 <0.340
02/2018 <0.340 <0.340

PL2-JF01B
03/1995 <2.00 <2.00
09/1995 <2.00 ----
11/1995 <2.00 ----
03/1996 <2.00 ----
05/1996 <2.00 ----
08/1996 <2.00 ----
11/1996 <2.00 ----
04/2001 **2.50B 1.10**
07/2001 **3.00 1.00**
10/2001 **1.50 1.20**
01/2002 **1.00 1.00**
06/2003 **1.80 0.800**
09/2003 **1.70 1.50**
12/2003 <1.00 <1.00
12/2003 **3.00** ----
02/2004 4.40 **1.70**
05/2004 **2.00** <1.00
09/2004 **1.20** ----
11/2004 **2.00 2.00**
02/2005 **2.00 2.00**
05/2005 **2.00 2.00**
08/2005 <1.70 <1.30
10/2005 <2.00 <2.00
02/2006 **1.30** 4.00
05/2006 **3.00 3.00**
07/2006 **2.00** <1.00
08/2006 <0.900 <1.00
11/2006 **2.00 1.00**
02/2007 <1.00 <1.00
05/2007 <1.30 <1.10
08/2007 **2.00** <1.00
11/2007 **2.00 2.00**
01/2008 ---- <10.0
02/2008 <1.40 <1.00
05/2008 <1.00 <1.00
08/2008 <1.50 <1.30
02/2009 <1.00J <1.00
08/2009 **2.00 1.00**
02/2010 **1.00** <1.00
08/2010 **1.20** <1.00
01/2011 <0.910 <0.910
08/2011 **0.610J 0.590J**
02/2012 <0.380 <0.380
08/2012 <0.330J **0.160J**
01/2013 **2.00J** <0.400
08/2013 <0.400 <0.400

MW-53
02/2021 <0.340 <0.340
05/2021 <0.173 <0.173
09/2021 **0.294J** <0.173
12/2021 **0.292J 0.510**

PL2-JF03A
09/1995 <2.00 ----
11/1995 <2.00 ----
03/1996 <2.00 ----
05/1996 8.00 ----
08/1996 7.00 ----
11/1996 <2.00 ----
04/2001 **2.20B 2.90**
07/2001 **0.700** <0.500
10/2001 <0.500 <0.500
01/2002 **1.00 0.600**
06/2003 **1.30** <0.500
12/2003 **2.10** <0.500
11/2004 **2.10** <0.600
05/2005 7.10 <0.500
10/2005 <1.00 <1.00

MW-54
02/2021 **1.64 0.991**
05/2021 **1.02 0.768**
08/2021 **1.04 0.860**
12/2021 **1.42 1.05**

MW-47
02/2009 ---- <10.0
05/2009 ---- 10.0
08/2009 ---- <10.0
12/2009 ---- <10.0

MW-6
01/2008 ---- <10.0
08/2017 9.69 **0.434J**
02/2018 <4.48B* <1.23B*
02/2021 **1.23 0.383J**
05/2021 **1.06 0.193J**
09/2021 **1.91 0.283J**
11/2021 **2.46 0.917**

MW-39
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 <3.40 <3.40

MW-42
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **0.928 0.790**
02/2018 <1.02B* <0.886B*

MW-43
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 <2.15B* **0.376J**
02/2018 <0.527B* <0.340

MW-44
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **1.28 0.466J**
02/2018 <1.70 <2.50B*

MW-68
02/2021 9.16 6.74
08/2021 5.93D 4.43D
11/2021 8.31 6.35

MW-67
02/2021 **1.88 1.64**
05/2021 **2.34 J* 2.14**
08/2021 4.03 3.33
12/2021 **2.06 1.75**

PL2-JF02A
09/1995 <2.00 ----
11/1995 <2.00 ----
03/1996 <2.00 ----
05/1996 <2.00 ----
08/1996 <2.00 ----
11/1996 <2.00 ----
04/2001 4.60B **0.600**
07/2001 **0.700** <0.500
10/2001 <0.500 <0.500
01/2002 **1.70 1.50**
06/2003 **0.900 1.00**
09/2003 **1.10 0.800**
12/2003 **0.900 0.600**
02/2004 **1.20 0.700**
05/2004 **1.30** <0.500
11/2004 <1.00 <0.500
02/2005 **1.10** <0.500
05/2005 **1.80** <0.500
08/2005 **2.00** <0.500
10/2005 **0.700 0.600**
02/2006 <0.700 <0.500
05/2006 **1.00 0.600**
07/2006 **1.80 0.600**
08/2006 <0.500 <0.500
11/2006 **1.00** <1.00
02/2007 <1.00 <1.00
05/2007 <0.500 **1.30**
08/2007 **1.60 1.50**
11/2007 **2.50** <0.500
01/2008 ---- <10.0
02/2008 <0.500 **0.500**
08/2008 <1.40 <0.500
02/2009 **2.90J 1.20**
08/2009 **1.00** <0.500
02/2010 <0.500 **0.800**
08/2010 **1.20 0.500**
01/2011 **2.42** <0.910
08/2011 **0.500J 0.300J**
02/2012 **0.820J** <0.380
08/2012 <0.320J <0.150J
01/2013 5.60 <0.400
08/2013 **0.410J** <0.400

MW-65
02/2021 <0.680 <0.340
05/2021 **0.279J** <0.173
09/2021 **0.280J** <0.173
11/2021 **1.40 0.263J**

MW-66
02/2021 <0.340 <0.340
05/2021 **0.536 0.223J**
08/2021 **0.667 J*** <0.173 B*
11/2021 **0.472J** <0.173

MW-46
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
02/2018 <0.340 <0.340
02/2021 <0.340 <0.340
05/2021 **0.257J** <0.173
08/2021 <0.173 <0.173
11/2021 **0.746 0.186J**

MW-38
02/2009 ---- <10.0
05/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **2.87 2.54**
02/2018 <2.63B* <2.11B*

MW-64
02/2021 3.24 <0.340
05/2021 6.72D <0.173
09/2021 **0.893** <0.173
11/2021 <0.173 <0.173

MW-63
02/2021 4.19 J* **1.80**
05/2021 **1.69 1.34**
09/2021 **1.31 0.726**
11/2021 **0.897JH* 0.394J**

MW-71
02/2021 **2.02D 0.383J**
05/2021 **1.28** <0.173
08/2021 **0.556** <0.173
11/2021 **1.60JH*** <0.173

MW-25
01/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 **1.51** <0.340
02/2018 <1.37B* <0.340

MW-55
02/2021 **0.466J** <0.340
05/2021 **1.04** <0.173
08/2021 **1.67 0.194J**
11/2021 **0.612** <0.173

MW-76
02/2021 <0.340 <0.340
05/2021 **1.89** <0.173
08/2021 **0.491J** <0.173
11/2021 <0.173 <0.346

MW-48
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **0.496J** <0.340
02/2018 <0.680 <0.340

MW-56
02/2021 <0.340 <0.340
05/2021 **0.531** <0.173
08/2021 **0.971** <0.173
11/2021 **0.333J** <0.173

MW-24
01/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 **2.14 3.09**
02/2018 <0.680 <0.979B*

MW-30
01/2008 ---- <10.0
08/2017 <0.340 <0.340

MW-31
01/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 **0.531J*** <0.340
02/2018 <0.546B* <0.340

MW-45
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 <0.340 <0.340

MW-40
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
02/2018 <0.340 <0.340
02/2021 4.59 3.68
05/2021 **0.987** <0.173
09/2021 **0.796** <0.173
11/2021 **3.01J*** <0.173

MW-49
02/2009 ---- <10.0
02/2018 <1.00B* <0.729B*
02/2021 **0.846 0.663**
05/2021 **0.706 0.564**
08/2021 **1.32 0.671**
12/2021 **1.76 1.26**

MW-57
02/2021 13.9 3.89
05/2021 6.83 **1.48J**
08/2021 9.04 **0.200J**
11/2021 **2.24** <0.173

MW-75
02/2021 4.74 **1.82**
05/2021 **0.637 0.267 J***
08/2021 **0.590 0.355J**

MW-41
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
02/2018 <1.70 <0.340
02/2021 **1.21** <0.340
05/2021 **2.20** <0.173
09/2021 **1.18** <0.173

MW-61
02/2021 6.47 6.10
05/2021 6.85 6.16
09/2021 4.41 **0.840**
12/2021 5.12 **1.44**

MW-74
02/2021 **0.623** <0.340
05/2021 **0.174J** <0.173
09/2021 **0.209J** <0.173
11/2021 **0.355 J*** <0.173

MW-60
02/2021 **2.10D** <0.340
05/2021 **0.460J** <0.173
09/2021 5.05 <0.173
11/2021 **1.89D** <0.173

MW-59
02/2021 **0.970** <0.340
05/2021 **1.23 0.683**
08/2021 **0.914 0.522**
11/2021 **1.87 0.541**

MW-23
11/1992 <100 ----
01/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 **1.22 0.649**
02/2018 <0.853B* <0.500B*

MW-58
02/2021 **2.98 2.35**
05/2021 **0.764** <0.173
08/2021 **0.380J, D** <0.173

MW-9
03/1992 110 ----
01/2008 ---- <10.0
08/2017 6.21 **2.09**
02/2018 25.9J* <2.25B*
02/2021 **1.72 0.512**
05/2021 **1.77 0.276J**
08/2021 **1.91** 6.39
11/2021 **2.21 1.07**

MW-4
01/2008 ---- <10.0
02/2018 <2.60B* <1.52B*
02/2021 3.20 **2.79**
05/2021 **2.55 1.03**
08/2021 **1.18** <0.173
11/2021 4.88 3.36

MW-8
01/2008 ---- <10.0
02/2009 ---- <10.0
02/2018 <0.773B* <0.855B*

MW-3
01/2008 ---- <10.0

MW-10R
02/2021 **2.28 1.78**
05/2021 **0.976 0.466J**
08/2021 **1.06 0.900**
11/2021 **1.72 1.45**

MW-10
02/2008 ---- <10.0

MW-11
03/1992 38.0 ----
08/2017 <1.36B* **1.12**
02/2018 <0.340 <0.340

MW-62
02/2021 4.94 **2.76**
05/2021 **2.45 1.99**
08/2021 3.45 **1.59**

MW-14
02/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 **0.727 0.348J**
02/2018 <0.893B* <0.500B*
02/2021 **1.59 1.22**
05/2021 **0.886 0.402J**
08/2021 **0.307J** <0.173
11/2021 **1.12 0.702**

MW-73
02/2021 20.9 **2.80**
05/2021 23.9D **0.380J**
08/2021 38.9 <0.173
11/2021 28.5 **0.772**

MW-15
01/2008 ---- <10.0
08/2017 **2.96 1.09**
02/2018 <2.97B* <1.21B*

MW-72
02/2021 25.4 25.6
05/2021 6.64 5.70
08/2021 4.03 3.14
11/2021 **0.898 0.654**

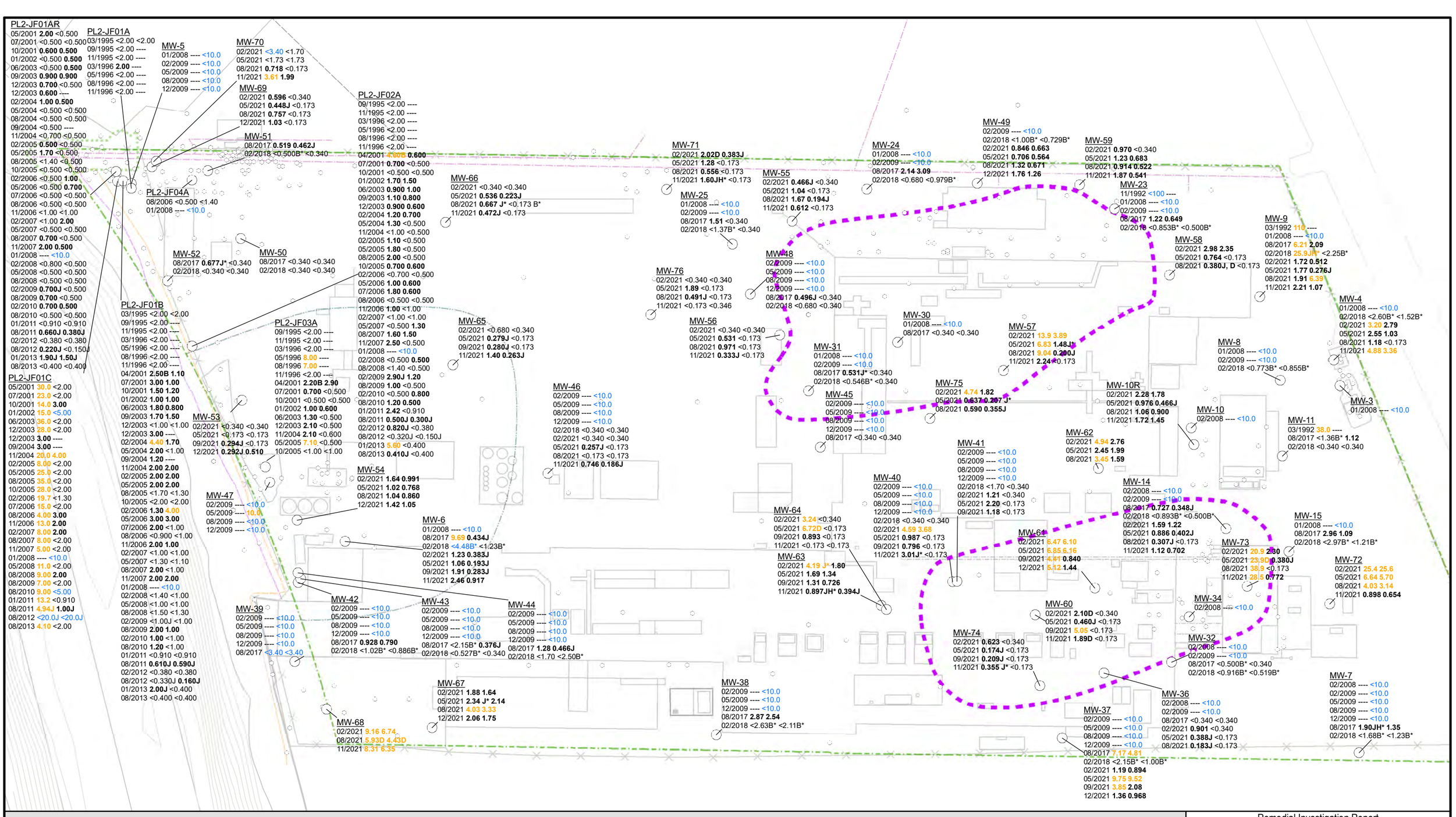
MW-34
02/2008 ---- <10.0

MW-32
02/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 <0.500B* <0.340
02/2018 <0.916B* <0.519B*

MW-36
02/2008 ---- <10.0
02/2009 ---- <10.0
08/2017 <0.340 <0.340
02/2021 **0.901** <0.340
05/2021 **0.388J** <0.173
08/2021 **0.183J** <0.173

MW-37
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 7.17 4.81
02/2018 <2.15B* <1.00B*
02/2021 **1.19 0.894**
05/2021 9.75 9.52
09/2021 3.85 **2.08**
12/2021 **1.36 0.968**

MW-7
02/2008 ---- <10.0
02/2009 ---- <10.0
05/2009 ---- <10.0
08/2009 ---- <10.0
12/2009 ---- <10.0
08/2017 **1.90JH* 1.35**
02/2018 <1.68B* <1.23B*



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for copper is 3.1 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
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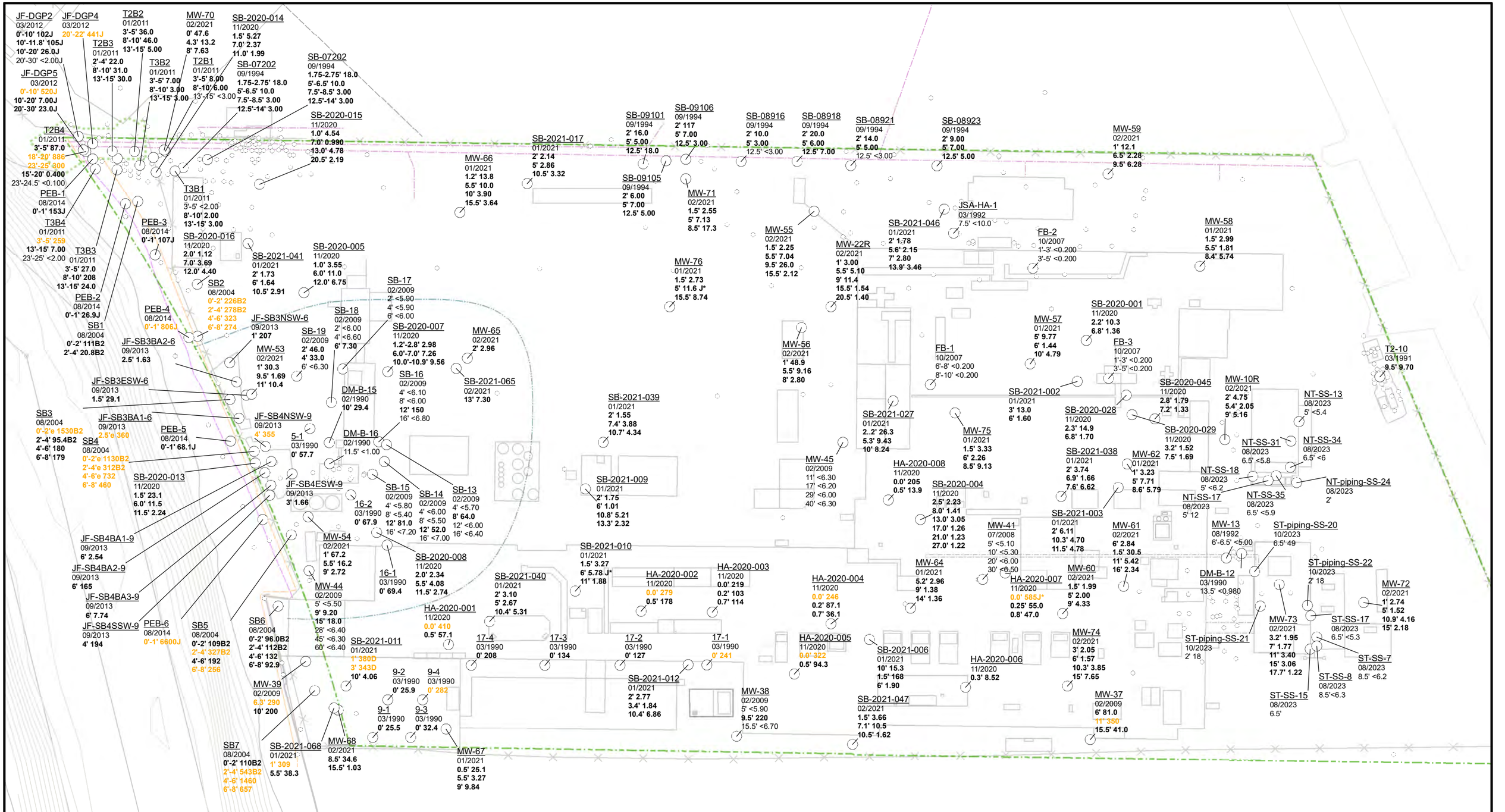
COPPER (TOTAL AND DISSOLVED) IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 42B

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the simplified Terrestrial Ecological Evaluation value for industrial/commercial properties from MTCA Table 749-2 (PCUL).
4. The PCUL for lead is 220 mg/kg.

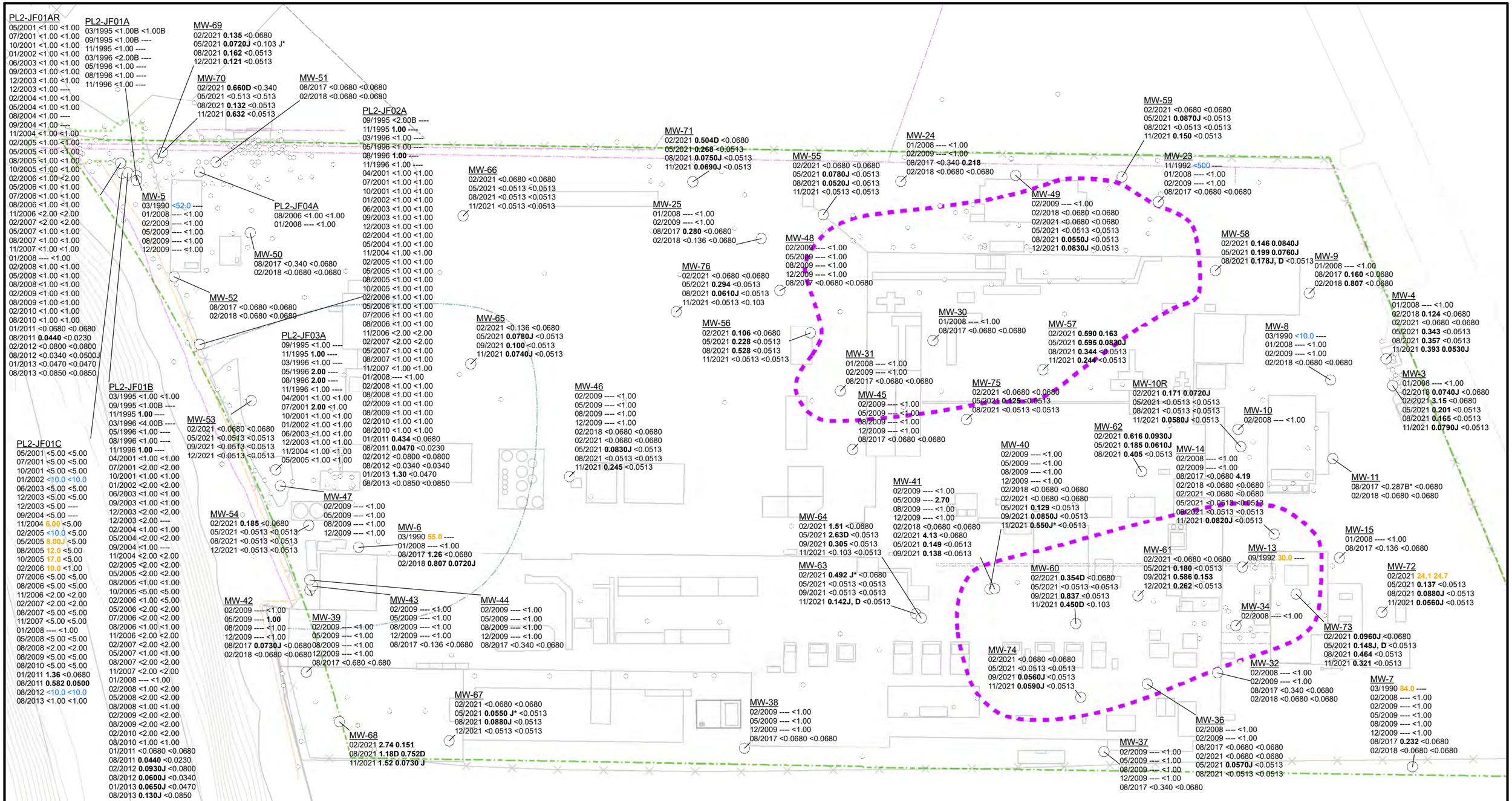
Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

LEAD IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 43A

DRAFT FOR PUBLIC COMMENT



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
1/2010 220 100	*Sample Date: Result - Total Result - Dissolved*
1/2010 220 100	*Sample Date: Result - Total Result - Dissolved (Detected)*
1/2010 820 100	*Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*
1/2010 356,220 100	*Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for lead is 5.6 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

LEAD (TOTAL AND DISSOLVED) IN GROUNDWATER

September 2024 | 21-1-12596-040

SHANNON & WILSON | FIG. 43B

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC

PL2-JF01AR
08/2006 **1190 1200**
08/2007 **1230 1310**
11/2007 **2050 2070**
05/2008 **827 790**
02/2009 **543 635**
02/2010 **2670 2650**
08/2010 **1110 1130**
01/2011 **1630 1870**
08/2011 **1670 1650**
02/2012 **985 855**
08/2012 **782 799**
01/2013 **680 738**
07/2013 **747 791**
08/2013 **729 691**

MW-70
02/2021 **2080D 2120D**
05/2021 **2170D 2160D**
08/2021 **1170B, D 1160D**
11/2021 **118 103**

MW-69
02/2021 **2310D 2270D**
05/2021 **1670D 1580D**
08/2021 **1300D 1130D**
12/2021 **728D 660D**

MW-51
08/2017 **335 338**
02/2018 **722 646**

PL2-JF04A
08/2006 **1030 1010**

PL2-JF01C
08/2005 **558 423**
07/2006 **409 452**
08/2006 **330 341**
02/2007 **402 418**
08/2007 **412 424**
11/2007 **387 431**
05/2008 **439 404**
08/2010 **437 416**
01/2011 **478 435**
08/2011 **402 392**
08/2012 **383 376**
07/2013 **491 516**
08/2013 **411 399**

MW-52
08/2017 **1220 1080**
02/2018 **900 828**
02/2021 **715D 667D**
05/2021 **814D 841D**
08/2021 **741D 567D**
12/2021 **975D 482D**

MW-50
08/2017 **740 693**
02/2018 **597 542**
02/2021 **265D 235D**
08/2021 **255 243D**
11/2021 **322J* 276D**

PL2-JF01B
08/2006 **1880 2030**
08/2007 **1980 2020**
11/2007 **1820 1930**
05/2008 **1980 2050**
02/2009 **1650 1730**
08/2010 **1460 1380**
01/2011 **1060 1100**
08/2011 **901 962**
02/2012 **907 926**
08/2012 **1390 1570**
01/2013 **1490 1470**
07/2013 **2590 2990**
08/2013 **1710 1690**

MW-53
02/2021 **182D 177D**
05/2021 **117 118**
09/2021 **114 112**
12/2021 **204 141**

PL2-JF02A
08/2006 **444 436**
08/2007 **418 426**
11/2007 **453 434**
02/2009 **695 404**
08/2010 **499 468**
01/2011 **529 511**
08/2011 **462 490**
02/2012 **352 381**
08/2012 **338 349**
01/2013 **626 482**
08/2013 **416 405**

MW-54
05/2021 **45.1 34.2**
08/2021 **43.1B, D 37.1**
12/2021 **1.80 0.385J**

MW-6
08/2017 **516 510**
02/2018 **245 208**

MW-44
08/2017 **117 80.9**
02/2018 **412 377**
02/2021 **667D 626D**
05/2021 **855D 808D**
08/2021 **331B, D 332D**

MW-42
08/2017 **95.7 89.0**
02/2018 <2.46B* <0.500B*
02/2021 **2.19D 0.782J, D**
05/2021 **30.5 24.2D**
08/2021 **108B, D 86.4**
11/2021 **2.42 1.42**

MW-43
08/2017 **130 116**
02/2018 **105 87.6**
02/2021 **190 207D**
05/2021 **201D 179D**
08/2021 **227B, D 228D**

MW-39
08/2017 **4.41 1.27J**
02/2018 **2180** <0.500B*
02/2021 **63.7D 0.362J, D**
05/2021 **980D 1.84**
08/2021 **---- 1.15JL***
08/2021 **26.7B, D ----**
11/2021 **7.74 0.246J**

MW-68
02/2021 **257D 180**
08/2021 **2500B, D 2420D**
11/2021 **25.0 3.77 J***

MW-67
02/2021 **36.3 33.9**
05/2021 **29.1 29.9**
08/2021 **9.50B 5.05**
12/2021 **19.4 19.2**

MW-65
02/2021 **5490D 5330D**
05/2021 **2530D 2230D**
09/2021 **1150D 1110D**
11/2021 **769D 741D**

MW-46
02/2018 **1120 1100**
02/2021 **1440D 1140D**
05/2021 **1120D 959D**
08/2021 **1100B, D 1040D**
11/2021 **874D 838D**

MW-66
02/2021 **424D 335B, D**
05/2021 **525D 505D**
08/2021 **1050B, D 1040D**
11/2021 **508D 507D**

MW-71
02/2021 **427D 395D**
05/2021 **528D 509D**
08/2021 **456B, D 460D**
11/2021 **261 311D**

MW-24
08/2017 **1110 1100**
02/2018 **1740 1580**

MW-55
02/2021 **333D 330D**
05/2021 **230D 197**
08/2021 **387D 309D**
11/2021 **237 196**

MW-25
08/2017 **401 318**
02/2018 **387 194**

MW-76
02/2021 **641D 595B, D**
05/2021 **722D 677D**
08/2021 **591B, D 529D**
11/2021 **601D 638D**

MW-48
08/2017 **561 512**
02/2018 **503 497**

MW-56
02/2021 **582D 546B, D**
05/2021 **705D 620D**
08/2021 **595D 525D**
11/2021 **473D 448D**

MW-31
08/2017 **841 767**
02/2018 **830 786**

MW-45
08/2017 **867 814**
02/2018 **891 838**
02/2021 **805D 666D**
05/2021 **51.5 352D**
08/2021 **765D 776D**
11/2021 **611D 679D**

MW-64
02/2021 **652D 482D**
05/2021 **794D 729D**
09/2021 **816D 710D**
11/2021 **835D 688D**

MW-63
02/2021 **80.5 J* 25.9**
05/2021 **157 166**
09/2021 **886D 848D**
11/2021 **788D 670D**

MW-40
02/2018 **1540 1340**
02/2021 **164 149**
05/2021 **863D 825D**
09/2021 **1310D 1180D**
11/2021 **1010D 847D**

MW-38
08/2017 **103 82.6**
02/2018 **23.3 10.3**
02/2021 **9.22 9.11**
05/2021 **11.9 1.20JH***
08/2021 **618B, D 368J***
11/2021 **15.1 6.80**

MW-49
02/2018 **104 96.4**
02/2021 **4.19 1.77**
05/2021 **7.37 1.56**
08/2021 **110 6.06**
12/2021 **36.9 2.95**

MW-41
02/2018 **998 888**
02/2021 **692D 741D**
05/2021 **807D 743D**
09/2021 **823D 744D**

MW-74
02/2021 **4270D 3870D**
05/2021 **3390D 3250D**
09/2021 **3230D 3200D**
11/2021 **3500D 3370D**

MW-30
08/2017 **850 763**
02/2018 **889 840**
02/2021 **1320D 1270D**
05/2021 **632D 596D**
08/2021 **644B, D 647D**

MW-75
05/2021 **1790D 1750D**
08/2021 **737D 715D**

MW-59
02/2021 **631D 590D**
05/2021 **216 199**
08/2021 **202 202**
11/2021 **250 251**

MW-23
08/2017 **2280 2270**
02/2018 **2130 1790**
02/2021 **1260D 1180D**
05/2021 **1730D 1620D**
08/2021 **1590D 1550D**
11/2021 **526D 527D**

MW-58
05/2021 **1010D 882D**
08/2021 **1680D 1560D**

MW-57
05/2021 **476D 424D**
08/2021 **1030D 1040D**
11/2021 **757D 717D**

MW-62
05/2021 **313D 279D**
08/2021 **222 277D**

MW-61
02/2021 **61.2 52.9**
05/2021 **666D 661D**
09/2021 **1280D 1190D**
12/2021 **53.2 43.7**

MW-60
02/2021 **1380D 1190D**
05/2021 **1330D 1160D**
09/2021 **1300D 1070D**
11/2021 **967D 852D**

MW-9
08/2017 **1140 810**
02/2018 **896 177**
02/2021 **874D 842D**
05/2021 **348D 265**
08/2021 **211 182**
11/2021 **146D 115D**

MW-4
02/2018 **23.7 16.8**
02/2021 **22.7D 11.9D**
05/2021 **561D 571D**
08/2021 **140 114**
11/2021 **47.3 4.43**

MW-8
02/2018 <2.95B* **4.95JH***

MW-11
08/2017 **1740 1570**
02/2018 **2030 1930**
02/2021 **595D 564D**
05/2021 **1600D 1620D**
08/2021 **1620D 1480D**
11/2021 **1090D 1050D**

MW-10R
02/2021 **74.7D 69.8D**
05/2021 **183 206**
08/2021 **176 186**
11/2021 **48.4 45.5**

MW-14
08/2017 **2130 2050**
02/2018 **1690 1680**
02/2021 **59.3D 59.3D**
05/2021 **162D 164D**
08/2021 **880D 743D**
11/2021 **591D 522D**

MW-15
08/2017 **457 5.96**
02/2018 **196 17.7**
08/2021 **---- 4.88**
11/2021 **---- 2.76**

MW-72
02/2021 **52.9D 52.9D**
05/2021 **315D 324D**
08/2021 **630D 580D**
11/2021 **5.50 3.42**

MW-73
02/2021 **1490D 1350D**
05/2021 **853D 926D**
08/2021 **542D 696D**
11/2021 **560D 538D**

MW-32
08/2017 **1110 971**
02/2018 **390 373**

MW-36
08/2017 **3210 3110**
02/2018 **2950 2510**
02/2021 **2110D 2060D**
05/2021 **2910D 2830D**
08/2021 **3130B, D 2940D**

MW-37
08/2017 **1100 1010**
02/2018 **9.11JH*** <0.500B*
02/2021 **9.26 J* 0.173 J***
05/2021 **146 138**
09/2021 **588D 513D**
12/2021 **9.64 0.490J**

MW-7
08/2017 **98.6 6.45**
02/2018 **17.2** <2.22B*

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

0 100 Feet

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections and detection limits (when not detected) have been screened against the background concentrations.
4. The PCUL for manganese is 2,000 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

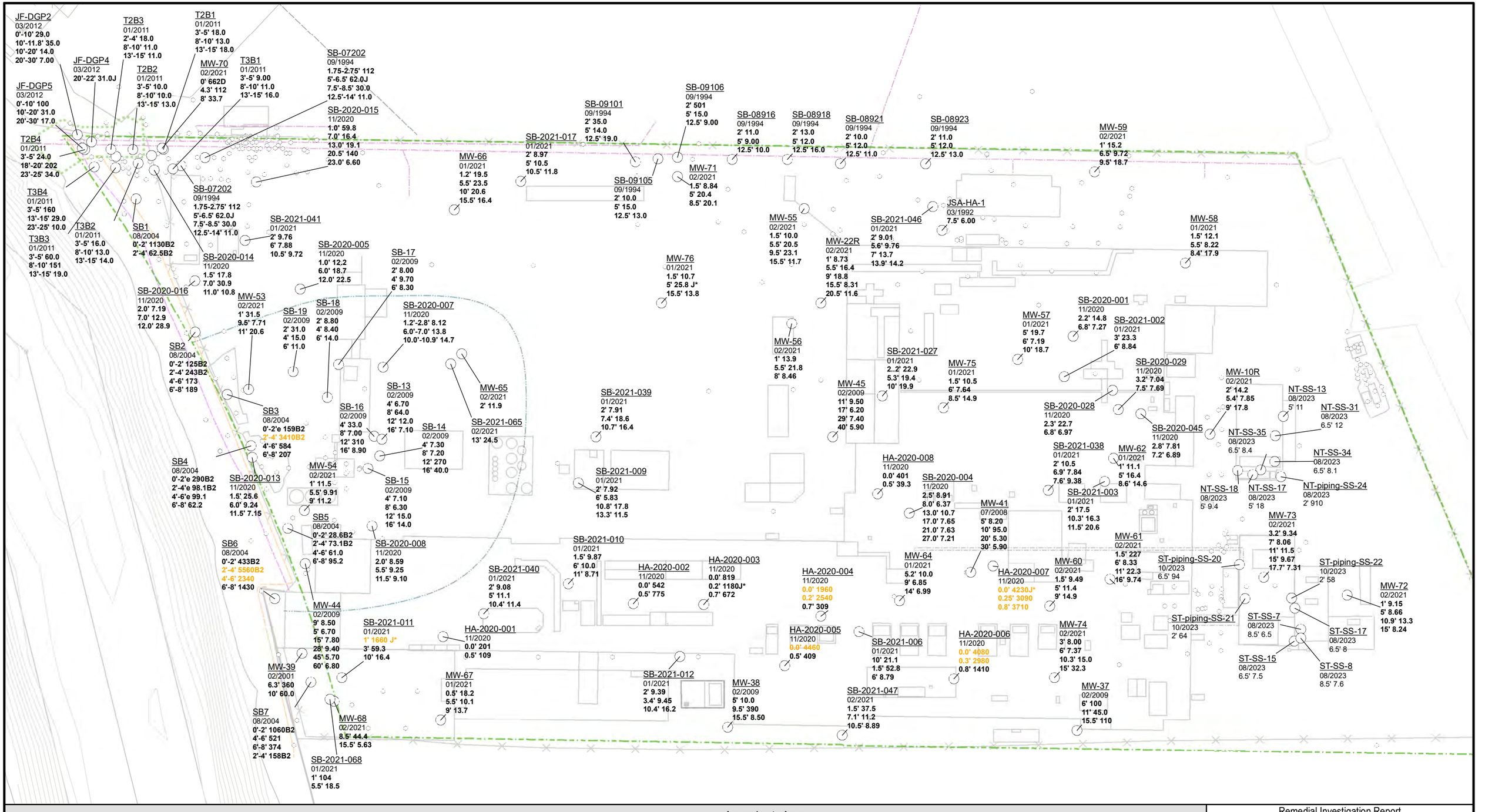
MANGANESE (TOTAL AND DISSOLVED) IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON **FIG. 44**

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N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*
3/2012 *Sample Date*
2'-4' 220 *Depth : Result*
2'-4' 220 *Depth : Result (Detected)*
4'-6' 820 *Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220 *Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the soil preliminary cleanup level based on direct contact (PCUL).
4. The PCUL for nickel is 1600 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

NICKEL IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 45A

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Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/13/2024 KAC

PL2-JF01C
05/2001 15.0 **5.00**
07/2001 13.0 **6.00**
10/2001 9.00 **6.00**
01/2002 10.0 **7.00**
06/2003 16.0 **5.00**
12/2003 16.0 **6.00**
12/2003 **5.00** ----
09/2004 14.0 ----
11/2004 15.0 10.0
02/2005 **8.00 6.00**
05/2005 14.0 **7.00**
08/2005 18.0 **8.00**
10/2005 13.0 **5.00**
02/2006 12.2 **0.800**
07/2006 **7.00** 10.0
08/2006 19.0 19.0
11/2006 10.0 25.0
02/2007 **7.00 7.00**
08/2007 **7.00 6.00**
11/2007 **8.00 8.00**
05/2008 11.0 **7.00**
08/2010 13.0J 10.0
01/2011 11.7 **5.50**
08/2011 17.0 14.9
08/2012 <20.0J <20.0J
08/2013 **2.20** <2.00

PL2-JF01AR
05/2001 **1.20 0.800**
07/2001 **0.800 0.700**
10/2001 **1.20 1.10**
01/2002 **1.60 1.30**
06/2003 **0.800 0.800**
09/2003 **1.20 0.900**
12/2003 **0.900 0.800**
12/2003 **0.700** ----
02/2004 **1.10 1.10**
05/2004 **1.10 1.00**
08/2004 **1.20 1.00**
09/2004 **1.70** ----
11/2004 **2.60 2.40**
02/2005 **1.00 0.900**
05/2005 **0.500** <0.500
08/2005 **1.40 1.20**
10/2005 **0.800 0.700**
02/2006 **0.900 2.00**
05/2006 **1.40 1.30**
07/2006 **1.00 1.10**
08/2006 **1.20 1.60**
11/2006 **1.00 1.00**
02/2007 <1.00 **5.00**
05/2007 **0.800 1.20**
08/2007 **1.00 1.00**
11/2007 **1.10 1.30**
05/2008 **0.800 0.900**
02/2009 **1.00J 0.900**
02/2010 **1.00 2.00**
08/2010 **1.10J 1.10**
01/2011 <1.70 <1.70
08/2011 <0.690 **1.47**
02/2012 <0.500 <0.500
08/2012 <0.350J <0.350J
01/2013 <0.350 <0.350
08/2013 <0.650 <0.650

PL2-JF01A
03/1995 <10.0 <10.0
09/1995 <10.0 ----
11/1995 <10.0 ----
03/1996 <10.0 ----
05/1996 <10.0 ----
08/1996 <10.0 ----
11/1996 <10.0 ----

PL2-JF01B
03/1995 <10.0 <10.0
09/1995 <10.0 ----
11/1995 <10.0 ----
03/1996 <10.0 ----
05/1996 <10.0 ----
08/1996 <10.0 ----
11/1996 <10.0 ----
04/2001 **1.80 2.60**
07/2001 **7.00 2.00**
10/2001 **3.40 2.20**
01/2002 **3.00 2.00**
06/2003 **3.00 1.60**
09/2003 **3.40 6.10**
12/2003 **3.00 2.00**
12/2003 **3.00** ----
02/2004 **3.70 2.40**
05/2004 **4.00 4.00**
09/2004 15.3 ----
11/2004 **6.00 5.00**
02/2005 **3.00 3.00**
05/2005 **4.00 3.00**
08/2005 **2.70 2.70**
10/2005 <2.00 <2.00
02/2006 **2.40** <2.00
05/2006 **4.00 4.00**
07/2006 **3.00 3.00**
08/2006 **2.30 2.30**
11/2006 **3.00 3.00**
02/2007 **2.00 2.00**
05/2007 **4.20 4.20**
08/2007 **3.00 3.00**
11/2007 **4.00 4.00**
05/2008 **2.00 3.00**
02/2009 **2.00J 2.00**
08/2010 **2.90J 3.00**
01/2011 **1.80 1.90**
08/2011 **4.78 4.84**
02/2012 **0.590J** <0.500
08/2012 <0.350J <0.350J
01/2013 **0.370J** <0.350
08/2013 <0.650 <0.650

PL2-JF02A
09/1995 <10.0 ----
11/1995 <10.0 ----
03/1996 <10.0 ----
05/1996 <10.0 ----
08/1996 <10.0 ----
11/1996 <10.0 ----
04/2001 **2.60 0.700**
07/2001 **0.800 0.700**
10/2001 **1.20 1.00**
01/2002 **3.20 2.40**
06/2003 **1.40 1.20**
09/2003 **1.40 2.10**
12/2003 **0.900 0.700**
02/2004 **2.30 0.800**
05/2004 **1.50 1.20**
11/2004 **1.10 0.900**
02/2005 **0.800 1.00**
05/2005 **0.900** <0.500
08/2005 **1.40 1.20**
10/2005 **0.500 0.800**
02/2006 **0.700 1.10**
05/2006 **0.500 0.600**
07/2006 **0.800 0.500**
08/2006 **1.00 0.800**
11/2006 **1.00** <1.00
02/2007 <1.00 **4.00**
05/2007 **0.700 5.60**
08/2007 **0.700 5.50**
11/2007 **1.00 1.70**
02/2009 **2.30J 2.10**
08/2010 **1.80J 1.00**
01/2011 <1.70 <1.70
08/2011 <0.690 <0.690
02/2012 **0.820J 0.510J**
08/2012 **0.520J 0.600J**
01/2013 **1.50J 0.800J**
08/2013 <0.650 <0.650

PL2-JF03A
09/1995 <10.0 ----
11/1995 10.0 ----
03/1996 <10.0 ----
05/1996 <10.0 ----
08/1996 <10.0 ----
11/1996 <10.0 ----
04/2001 **1.40 1.10**
07/2001 **1.20 1.00**
10/2001 **1.60 1.20**
01/2002 **1.60 0.900**
06/2003 **1.50 1.20**
12/2003 **1.60 0.800**
11/2004 **1.10 1.00**
05/2005 **3.60 0.900**
10/2005 **0.800 1.00**

PL2-JF04A
08/2006 **2.90 1.30**
01/2008 ---- <2.00

MW-70
02/2021 **2.99J, D 0.705J, D**
05/2021 **2.20J, D** <0.792
08/2021 **0.273J 0.109J**
11/2021 **2.54 1.60**

MW-69
02/2021 **0.627 0.418J**
05/2021 **0.867 0.591**
08/2021 **0.502 J* 0.139J**
12/2021 **0.248J 0.148J**

MW-51
08/2017 **0.131J 0.178J**
02/2018 <0.500B* **0.161J**

MW-52
08/2017 **0.430J 0.374J**
02/2018 <0.500B* **0.246J**

MW-50
08/2017 **0.238J 0.233J**
02/2018 <0.500B* **0.188J**

MW-53
02/2021 **0.414J 0.429J**
05/2021 <0.500 B* **0.511**
09/2021 **2.40 2.24**
12/2021 **1.15 0.585**

MW-54
02/2021 **0.606 0.510**
05/2021 <0.500 B* **0.413J**
08/2021 **0.508 0.489J**
12/2021 **0.513 0.440J**

MW-6
08/2017 **1.22 0.272J**
02/2018 **1.61 0.607**

MW-43
08/2017 <0.500B* <0.500B*
02/2018 <0.500B* **0.149J**

MW-42
08/2017 **0.330J 0.322J**
02/2018 <0.500B* **0.154J**

MW-44
08/2017 **2.04 2.01**
02/2018 <0.250 <0.250

MW-68
02/2021 **3.64 2.49**
08/2021 **5.76D 5.05D**
11/2021 **1.21 0.647**

MW-39
08/2017 **0.720J 0.600J**
02/2018 24.7 **0.0740J***
02/2021 **2.21D 0.170J, D**
05/2021 12.4D **0.252J**
08/2021 ---- **2.25J, D**
08/2021 **1.72J, D** ----
11/2021 **0.421J 0.179J**

MW-67
02/2021 **0.700 0.648**
05/2021 **1.22 1.08**
08/2021 **2.09 1.72**
12/2021 **0.686 0.696**

MW-65
02/2021 19.8D, B 19.7
05/2021 **5.65 4.81**
09/2021 **2.70 2.54**
11/2021 22.9 22.8

MW-66
02/2021 **0.927 0.813**
05/2021 **0.985 0.764**
08/2021 **0.814 0.692**
11/2021 **2.16 1.85**

MW-46
02/2018 **0.712JH* 0.563**
02/2021 **0.455J 0.371J**
05/2021 **0.378J 0.216J**
08/2021 **0.276J 0.222J**
11/2021 **1.45 1.22**

MW-71
02/2021 **0.558 JH* 0.171J**
05/2021 **0.405J 0.182J**
08/2021 **0.150J 0.0900J**
11/2021 **0.218J 0.138J**

MW-25
08/2017 **1.18 0.0910J***
02/2018 **0.906JH* 0.285J**

MW-48
08/2017 **0.183J** <0.192B*
02/2018 <1.00B* **0.0710J**

MW-76
02/2021 **0.101J 0.114J**
05/2021 **0.818 0.157J**
08/2021 **0.197J** <0.0792
11/2021 <0.0792 <0.0792

MW-24
08/2017 **0.675 0.532**
02/2018 **0.838JH* 0.558**

MW-49
02/2018 **4.33 4.12**
02/2021 **2.47 2.22**
05/2021 **2.91 2.41**
08/2021 **3.29 2.11**
12/2021 **1.81 1.25**

MW-59
02/2021 **2.11 1.89**
05/2021 **2.27 1.96**
08/2021 **1.98 1.80**
11/2021 **3.26 2.96**

MW-23
08/2017 **1.17 1.13**
02/2018 **0.990 1.06**

MW-55
02/2021 **0.377J 0.628**
05/2021 **0.468J 0.234J**
08/2021 **0.493J 0.332J**
11/2021 **0.232J 0.182J**

MW-58
02/2021 18.0 18.4
05/2021 **2.97 2.54**
08/2021 **0.786J, D 0.622**

MW-9
08/2017 **2.95 2.38**
02/2018 **3.89 1.07**

MW-56
02/2021 **0.193J 0.128J**
05/2021 **0.257J 0.162J**
08/2021 **0.424J 0.146 J***
11/2021 **0.120J** <0.0792

MW-30
08/2017 **0.412J 0.308J**
02/2018 <1.00B* **0.250J**

MW-57
02/2021 **6.75 5.57**
05/2021 **4.89 3.50**
08/2021 **5.57 3.98**
11/2021 **3.54 2.88**

MW-4
02/2018 **2.85 2.98**
02/2021 **1.81 1.60**
05/2021 **2.20 1.87**
08/2021 **0.875 0.556**
11/2021 **2.00 1.34**

MW-31
08/2017 **1.29 1.12**
02/2018 <0.500B* **0.398J**

MW-75
02/2021 **7.86 7.25**
05/2021 **4.05 3.76**
08/2021 **5.16 4.84**

MW-8
02/2018 <0.500B* **0.373J**
02/2021 **0.812 0.660**
05/2021 **1.31 1.15D**
08/2021 **1.09 0.892**

MW-45
08/2017 **0.554 0.439J***
02/2018 **0.554JH* 0.662**

MW-10R
02/2021 **1.51 1.33**
05/2021 **0.898 JH* 1.01**
08/2021 **1.45 1.20**
11/2021 **1.29 1.09**

MW-62
02/2021 **3.99 3.45**
05/2021 **4.03 3.62**
08/2021 **6.27 4.90**

MW-11
08/2017 **2.95 1.49**
02/2018 **1.21 0.988**

MW-40
02/2018 **1.05 0.704**
02/2021 **4.32 3.72**
05/2021 **1.68 0.558**
09/2021 **2.00 0.837**
11/2021 **8.02J* 0.822**

MW-14
08/2017 **2.00 1.70**
02/2018 **1.62 1.49**
02/2021 **1.98 1.93**
05/2021 **1.15 1.05**
08/2021 **0.875 0.811**
11/2021 **1.63 1.46**

MW-41
02/2018 **1.70J 0.630**
02/2021 **2.13 0.560**
05/2021 **3.21 0.637**
09/2021 **1.52 0.424J**

MW-15
08/2017 **5.90 1.47**
02/2018 **4.49 2.34**

MW-63
02/2021 **3.51 J* 2.41**
05/2021 **1.85 1.83**
09/2021 **2.16 1.99**
11/2021 **2.82 2.18**

MW-61
02/2021 **7.69 7.42**
05/2021 **5.69 5.62**
09/2021 8.71 **7.35**
12/2021 **4.84 4.41**

MW-72
02/2021 26.3 26.3
05/2021 **5.44 5.27**
08/2021 **3.62 3.52**
11/2021 **1.28 1.09**

MW-60
02/2021 **3.29D 1.57**
05/2021 **1.31 1.27**
09/2021 **3.67 1.38**
11/2021 **1.50D 0.548**

MW-73
02/2021 23.4 21.3
05/2021 8.35D **7.88**
08/2021 **1.80 1.17**
11/2021 9.40 **8.64**

MW-74
02/2021 **1.40 1.21**
05/2021 **0.836 0.623**
09/2021 **0.918 0.685**
11/2021 **0.694 0.405J**

MW-64
02/2021 **5.58 0.906**
05/2021 **7.19D 1.46**
09/2021 **0.794 0.361J**
11/2021 **0.396J 0.235J**

MW-32
08/2017 <0.725B* **0.588J****
02/2018 **2.08 2.11**

MW-36
08/2017 **0.656 0.557**
02/2018 **0.511JH* 0.468J**
02/2021 **1.10 0.897**
05/2021 **0.833 0.543**
08/2021 **0.475J 0.448J**

MW-38
08/2017 **1.54 1.32**
02/2018 **0.754JH* 0.562**

MW-37
08/2017 8.60 **6.54**
02/2018 **5.23 4.76**
02/2021 **4.75 3.88**
05/2021 12.2 **11.3**
09/2021 8.85 **7.21**
12/2021 **5.54 4.75**

MW-7
08/2017 **2.40 1.41**
02/2018 **1.58 1.25**

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

0 100 Feet

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for nickel is 8.2 µg/L.

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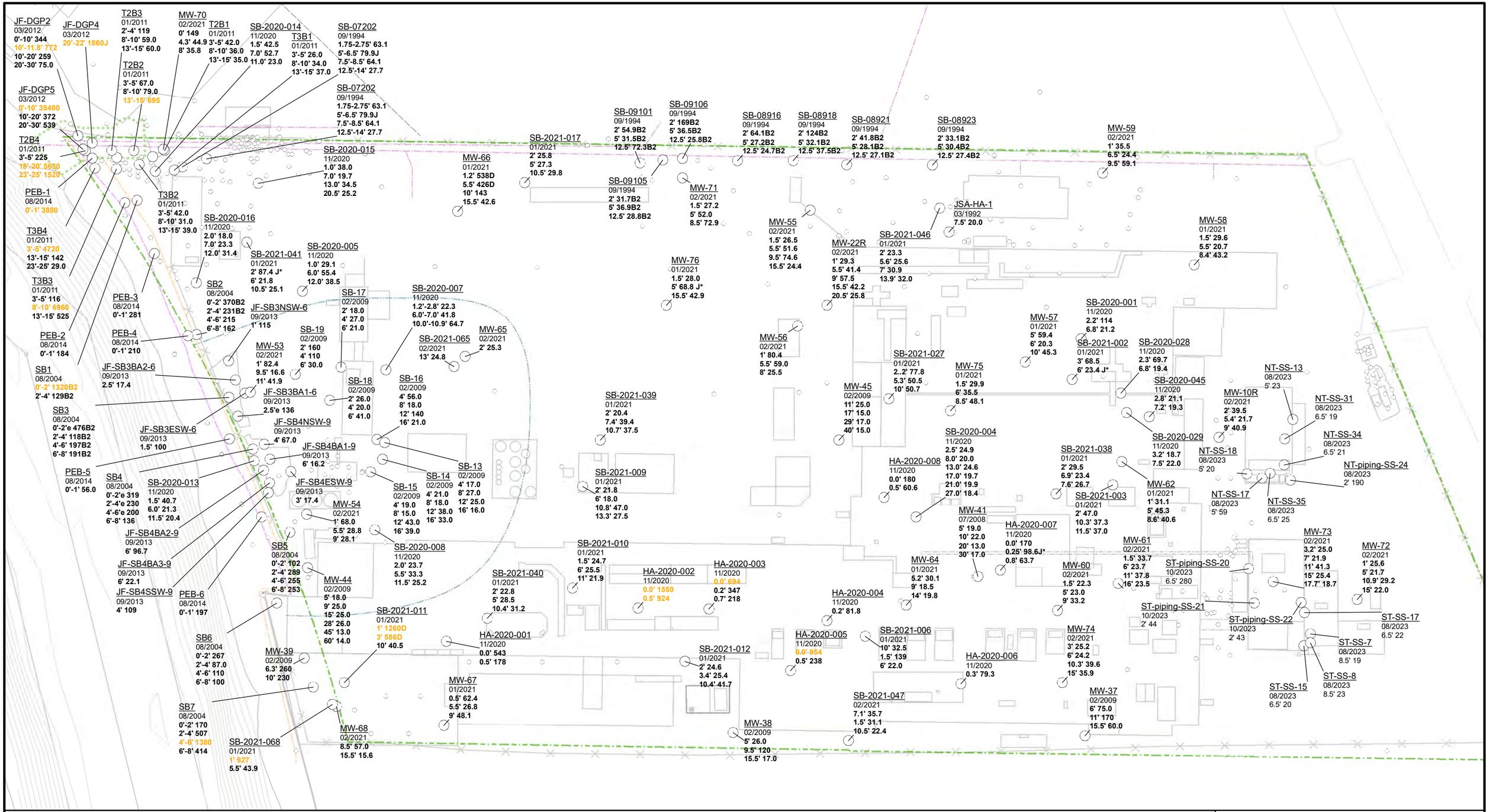
NICKEL (TOTAL AND DISSOLVED) IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 45B

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LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the simplified Terrestrial Ecological Evaluation value for industrial/commercial properties from MTCA Table 749-2 (PCUL).
4. The PCUL for zinc is 570 mg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

ZINC IN SOIL

September 2024 | 21-1-12596-40

SHANNON & WILSON | FIG. 46A

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/13/2024 KAC

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PL2-JF01AR
05/2001 **8.00** <6.00J
07/2001 <6.00 <6.00
10/2001 <6.00 <6.00
01/2002 <6.00 <6.00
06/2003 <6.00 <6.00
09/2003 **4.00 6.00**
12/2003 <6.00 <6.00
12/2003 <6.00 ----
02/2004 <6.00 <6.00
05/2004 <6.00 <6.00
08/2004 <6.00 <6.00
09/2004 <6.00 ----
11/2004 <6.00 <6.00
02/2005 **7.00** <6.00
05/2005 **7.00** <6.00
08/2005 <6.00 <6.00
10/2005 <6.00 <6.00
02/2006 <6.00 <6.00
05/2006 <6.00 <6.00
07/2006 <6.00 <6.00
08/2006 <6.00 <6.00
11/2006 **12.0** <6.00
02/2007 **10.0** <10.0
05/2007 **10.0** <10.0
08/2007 <10.0 <10.0
11/2007 <10.0 <10.0
01/2008 ---- <50.0
02/2008 <10.0 <10.0
05/2008 <10.0 <10.0
08/2008 <10.0 <10.0
02/2009 <10.0 <10.0
08/2009 <10.0 <10.0
02/2010 **10.0** <10.0
08/2010 <10.0 <10.0
01/2011 <3.10 **5.90**
08/2011 **2.70 2.65**
02/2012 <4.00 <4.00
08/2012 **3.40J** <4.10J
01/2013 **1.90J** <1.50
08/2013 **1.90J** <1.50

PL2-JF01A
03/1995 <4.00 **5.00**
09/1995 <4.00 ----
11/1995 <4.00 ----
03/1996 <4.00 ----
05/1996 <4.00 ----
08/1996 **4.00** ----
11/1996 <4.00 ----

MW-5
01/2008 ---- <50.0
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0

MW-70
02/2021 <8.20 <4.10
05/2021 <29.2 <29.2
08/2021 <2.92 <2.92
11/2021 **8.14 6.39**

MW-69
02/2021 **3.84J 3.08J**
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
12/2021 <2.92 <2.92

MW-51
08/2017 <0.820 **4.12**
02/2018 <0.820 <4.00B*

PL2-JF04A
08/2006 **7.00** <6.00
01/2008 ---- <50.0

MW-50
08/2017 **0.952J 1.04J**
02/2018 <0.820 <4.00B*

MW-52
08/2017 <0.820 **1.12J**
02/2018 <0.820 <4.00B*

MW-53
02/2021 **1.81 J* 0.953J**
05/2021 <2.92 <2.92
09/2021 <2.92 <2.92
12/2021 <2.92 <2.92

PL2-JF03A
09/1995 <4.00 ----
11/1995 <4.00 ----
03/1996 <4.00 ----
05/1996 **7.00** ----
08/1996 **14.0** ----
11/1996 <4.00 ----
04/2001 **14.0** <6.00J
07/2001 <6.00 <6.00
10/2001 <6.00 <6.00
01/2002 <6.00 <6.00
06/2003 <6.00 <6.00
12/2003 <6.00 <6.00
11/2004 <6.00 <6.00
05/2005 **9.00** <6.00
10/2005 <6.00 <6.00

MW-65
02/2021 **1.73J, D 1.56J**
05/2021 <2.92 <2.92
09/2021 <2.92 <2.92
11/2021 <2.92 <2.92

PL2-JF02A
09/1995 <4.00 ----
11/1995 <4.00 ----
03/1996 <4.00 ----
05/1996 <4.00 ----
08/1996 **5.00** ----
11/1996 <4.00 ----
04/2001 <6.00J <6.00J
07/2001 <6.00 <6.00
10/2001 <6.00 <6.00
01/2002 <6.00 <6.00
06/2003 <6.00 **9.00**
09/2003 <4.00 <4.00
12/2003 <6.00 <6.00
02/2004 <6.00 <6.00
05/2004 <6.00 <6.00
08/2004 <6.00 ----
11/2004 <6.00 <6.00
02/2005 **7.00** <6.00
05/2005 **10.0** <6.00
08/2005 <6.00 <6.00
10/2005 **10.0** <6.00
02/2006 <6.00 **7.00**
05/2006 <6.00 <6.00
07/2006 **12.0** <6.00
08/2006 **7.00 6.00**
11/2006 **12.0** <6.00
02/2007 <10.0 <10.0
05/2007 <10.0 <10.0
08/2007 <10.0 <10.0
11/2007 <10.0 <10.0
01/2008 ---- <50.0
02/2008 <10.0 <10.0
05/2008 <10.0 <10.0
08/2008 <10.0 <10.0
02/2009 <10.0 <10.0
08/2009 <10.0 <10.0
02/2010 <10.0 <10.0
08/2010 <10.0 <10.0
01/2011 **6.10** <3.10
08/2011 **2.50 1.99**
02/2012 **4.20J** <4.00
08/2012 <1.50J <1.70J
01/2013 **9.20J 2.10J**
08/2013 **3.10J 2.80J**

PL2-JF01B
03/1995 <4.00 <4.00
09/1995 <4.00 ----
11/1995 <4.00 ----
03/1996 <4.00 ----
05/1996 <4.00 ----
08/1996 <4.00 ----
11/1996 <4.00 ----
04/2001 <6.00J <6.00J
07/2001 <6.00 <6.00
10/2001 <6.00 <6.00
01/2002 <6.00 <6.00
06/2003 <6.00 <6.00
09/2003 <4.00 <4.00
12/2003 <6.00 <6.00
02/2004 **9.00** <6.00
05/2004 <10.0 <10.0
09/2004 <6.00 ----
11/2004 <6.00 **6.00**
02/2005 <6.00 <6.00
05/2005 <10.0 <10.0
08/2005 <6.00 <6.00
10/2005 <6.00 <6.00
02/2006 <6.00 <30.0
05/2006 <6.00 <6.00
07/2006 <6.00 <6.00
08/2006 <6.00 <6.00
11/2006 <6.00 <6.00
02/2007 <10.0 <10.0
05/2007 <10.0 <10.0
08/2007 <10.0 <10.0
11/2007 <10.0 <10.0
01/2008 ---- <50.0
02/2008 <10.0 <10.0
05/2008 <10.0 <10.0
08/2008 <10.0 <10.0
02/2009 <10.0 <10.0
08/2009 <10.0 <10.0
02/2010 <10.0 <10.0
08/2010 <10.0 <10.0
01/2011 <3.10 **3.60**
08/2011 **2.90 3.56**
02/2012 <4.00 <4.00
08/2012 <5.40J **3.70J**
01/2013 **2.70J** <1.50
08/2013 **2.40J** <1.50

PL2-JF01C
05/2001 **130 60.0**
07/2001 **48.0** <6.00
10/2001 **18.0** <6.00
01/2002 **20.0** <6.00
06/2003 **50.0** <10.0
12/2003 **30.0** <10.0
12/2003 **20.0** ----
09/2004 <10.0 ----
11/2004 **10.0** <10.0
02/2005 <30.0 <30.0
05/2005 <60.0 <60.0
08/2005 **40.0** <10.0
10/2005 **30.0** <10.0
02/2006 <30.0 **7.00**
07/2006 <10.0 <30.0
08/2006 <10.0 <10.0
11/2006 <10.0 <10.0
02/2007 <10.0 **20.0**
08/2007 <20.0 <50.0
11/2007 <20.0 <50.0
01/2008 ---- <50.0
05/2008 <20.0 <20.0
08/2008 <20.0 <50.0
08/2009 <20.0 <20.0
08/2010 <20.0 <20.0
01/2011 **19.6** <3.10
08/2011 **11.0 6.37**
08/2012 <150 <150
08/2013 <15.0 <15.0

MW-71
02/2021 **2.51J, D 1.12J**
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
11/2021 <2.92 <5.84

MW-66
02/2021 **7.31 8.57**
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-24
01/2008 ---- <50.0
02/2009 ---- <25.0
08/2017 **5.20 2.53J**
02/2018 <8.00B* <4.00B*

MW-49
02/2009 ---- <25.0
02/2018 <8.00B* <4.00B*
02/2021 **0.904J** <0.820
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
12/2021 <2.92 <2.92

MW-59
02/2021 **3.45J 4.58**
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-55
02/2021 <0.820 <0.820
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-25
01/2008 ---- <50.0
02/2009 ---- <25.0
08/2017 **2.86J 1.07J**
02/2018 <8.00B* <4.00B*

MW-23
11/1992 <100 ----
01/2008 ---- <50.0
02/2009 ---- <25.0
08/2017 **1.09J 1.84J**
02/2018 <4.00B* <4.00B*

MW-48
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0
08/2017 <0.820 **1.34J**
02/2018 <8.00B* <4.00B*

MW-58
02/2021 **17.1 17.3**
05/2021 **4.61J 4.37J**
08/2021 <5.84 <2.92

MW-9
03/1992 **90.0** ----
01/2008 ---- <50.0
08/2017 <4.82B* **2.86J**
02/2018 <13.2B* <4.00B*

MW-76
02/2021 <0.820 <0.820
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
11/2021 <2.92 <5.84

MW-30
01/2008 ---- <50.0
08/2017 <4.00B* **0.879J**
02/2018 <8.00B* <4.00B*

MW-4
01/2008 ---- <50.0
02/2018 <4.00B* <4.00B*
02/2021 <4.00 B* **1.86J**
05/2021 **4.69J 3.40J**
08/2021 <2.92 <2.92
11/2021 **3.14J** <2.92

MW-56
02/2021 <0.820 **1.17J**
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-57
02/2021 **1.68J** <0.820
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-8
01/2008 ---- <50.0
02/2009 ---- <25.0
02/2018 <0.820 <4.00B*
02/2021 <0.820 <0.820
05/2021 <2.92 <5.84
08/2021 <2.92 <2.92

MW-31
01/2008 ---- <50.0
02/2009 ---- <25.0
08/2017 **2.14J 2.85J**
02/2018 <4.00B* <4.00B*

MW-3
01/2008 ---- <50.0

MW-10
02/2008 ---- <50.0

MW-46
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0
02/2018 <4.00B* <4.00B*
02/2021 <0.820 <0.820
05/2021 <2.92 <2.92
08/2021 <2.92 **31.7**
11/2021 <2.92 <2.92

MW-75
02/2021 **5.49 J* 2.39J**
05/2021 **3.69J 3.84J**
08/2021 <2.92 <2.92

MW-62
02/2021 **3.61J 2.28J**
05/2021 **4.04J** <2.92
08/2021 **3.38J** <2.92

MW-10R
02/2021 <5.11 B* **1.15J**
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-11
03/1992 **78.0** ----
08/2017 <6.31B* <4.00B*
02/2018 <4.00B* <4.00B*

MW-14
02/2008 ---- <50.0
02/2009 ---- <25.0
08/2017 **4.04 1.98J**
02/2018 <4.00B* <4.00B*
02/2021 <4.00 B* **1.07J**
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-45
02/2009 ---- **39.0**
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0
08/2017 <0.820 **1.37J**
02/2018 <0.820 <4.00B*

MW-40
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0
02/2018 <0.820 <4.00B*
02/2021 <0.820 **0.865J**
05/2021 <2.92 <2.92
09/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-41
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0
02/2018 <20.0B* <4.00B*
02/2021 **1.62J** <0.820
05/2021 <2.92 <2.92
09/2021 <2.92 <2.92

MW-15
01/2008 ---- <50.0
08/2017 **1.76J 1.52J**
02/2018 <4.00B* <4.00B*

MW-72
02/2021 **76.2 77.3**
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-61
02/2021 **1.18J 1.44J**
05/2021 <2.92 <2.92
09/2021 <2.92 <2.92
12/2021 <2.92 <2.92

MW-63
02/2021 **6.40 J* 1.20J**
05/2021 <2.92 <2.92
09/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-34
02/2008 ---- <50.0

MW-73
02/2021 **28.0 26.4**
05/2021 **22.4D 5.76**
08/2021 **5.01J 3.66J**
11/2021 **5.23J 4.03J**

MW-64
02/2021 **2.50J** <0.820
05/2021 **11.3J, D** <2.92
09/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-60
02/2021 **3.72J, D 1.13J**
05/2021 <2.92 <2.92
09/2021 **3.95J** <2.92
11/2021 <5.84 <2.92

MW-42
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0
08/2017 **1.49J 1.17J**
02/2018 <4.00B* <4.00B*

MW-43
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0
08/2017 <4.00B* <4.00B*
02/2018 <4.00B* <4.00B*

MW-44
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0
08/2017 **49.0 24.0**
02/2018 <4.10 <4.10

MW-39
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0
08/2017 **16.6J** <8.20
02/2018 **130** <4.00B*
02/2021 **7.25J, D** <1.64
05/2021 **46.2D** <2.92
08/2021 ---- <29.2
11/2021 <2.92 <2.92

MW-68
02/2021 **9.21 1.75J**
08/2021 **19.6D 17.6D**
11/2021 5.32 j <2.92

MW-67
02/2021 <0.820 <0.820
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92
12/2021 <2.92 <2.92

MW-6
01/2008 ---- <50.0
08/2017 <4.75B* **1.11J**
02/2018 <4.00B* <4.00B*

MW-47
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0

MW-54
02/2021 **2.67J** <0.820
05/2021 <2.92 **55.8**
08/2021 <2.92 <2.92
12/2021 <2.92 <2.92

MW-38
02/2009 ---- <25.0
05/2009 ---- <50.0
12/2009 ---- <25.0
08/2017 **1.41J 2.54J**
02/2018 <8.00B* <4.00B*

MW-74
02/2021 **2.31J 0.825J**
05/2021 <2.92 <2.92
09/2021 <2.92 <2.92
11/2021 <2.92 <2.92

MW-37
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0
08/2017 **2.69J 2.35J**
02/2018 <8.00B* <4.00B*
02/2021 **0.967J 1.31 J***
05/2021 <2.92 <2.92
09/2021 <2.92 <2.92
12/2021 <2.92 <2.92

MW-36
02/2008 ---- <50.0
02/2009 ---- <25.0
08/2017 <4.00B* **1.75J**
02/2018 <0.820 <4.00B*
02/2021 <0.820 **0.825J**
05/2021 <2.92 <2.92
08/2021 <2.92 <2.92

MW-32
02/2008 ---- <50.0
02/2009 ---- <25.0
08/2017 <4.00B* <4.00B*
02/2018 <0.820 <4.00B*

MW-7
02/2008 ---- <50.0
02/2009 ---- <25.0
05/2009 ---- <50.0
08/2009 ---- <50.0
12/2009 ---- <25.0
08/2017 <4.00B* **2.23J**
02/2018 <4.00B* <4.00B*

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

N W E S

0 100
Feet

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for zinc is 81 µg/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

ZINC (TOTAL AND DISSOLVED) IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 46B

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/13/2024 KAC

MW-79
11/2022
2.0 <0.0590
5.0 <0.0450
10.0 <0.0580

MW-78
11/2022
2.0 0.150J
5.0 <0.0670
10.0 0.220J

SB-2022-001
12/2022
1.5 0.0630J
6.0 88.0
10.0 18.0

SB-2022-003
12/2022
2.0 <0.0500
5.0 0.0730JH*
8.5 54.0

SB-2022-002
12/2022
2.0 4.10JH*
4.5 370J*
8 200

MW-77
11/2022
2.0 0.0570J*
5.0 0.220
10.0 <0.0480

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for PFOS is 0.72 µg/kg

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

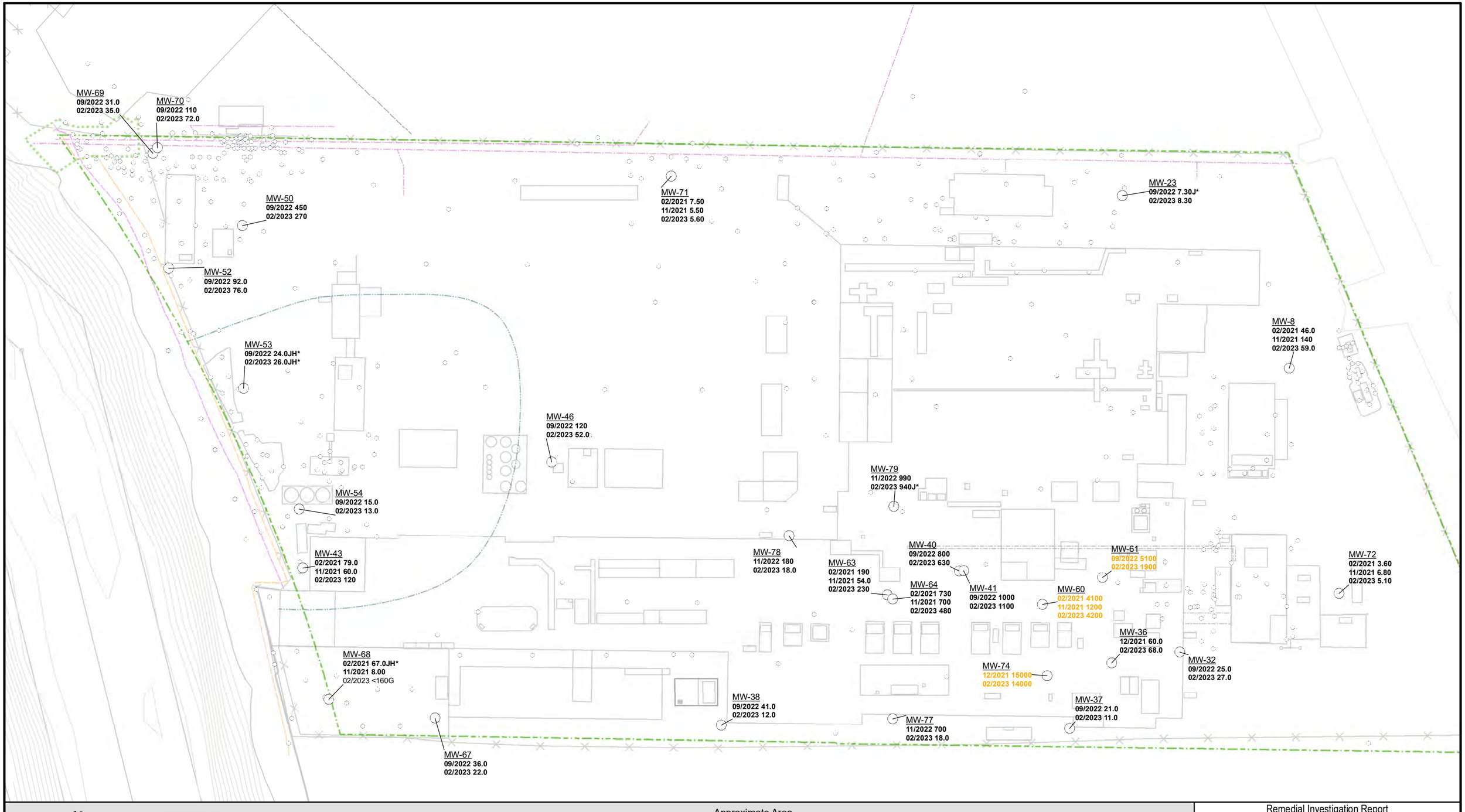
PFOS IN SOIL

September 2024 21-1-12596-40

SHANNON & WILSON **FIG. 47A**

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/12/2024 KAC



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
1/2010 220 100	*Sample Date: Result - Total Result - Dissolved*
1/2010 220 100	*Sample Date: Result - Total Result - Dissolved (Detected)*
1/2010 820 100	*Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*
1/2010 356,220 100	*Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for PFOS is 1,100 ng/L.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

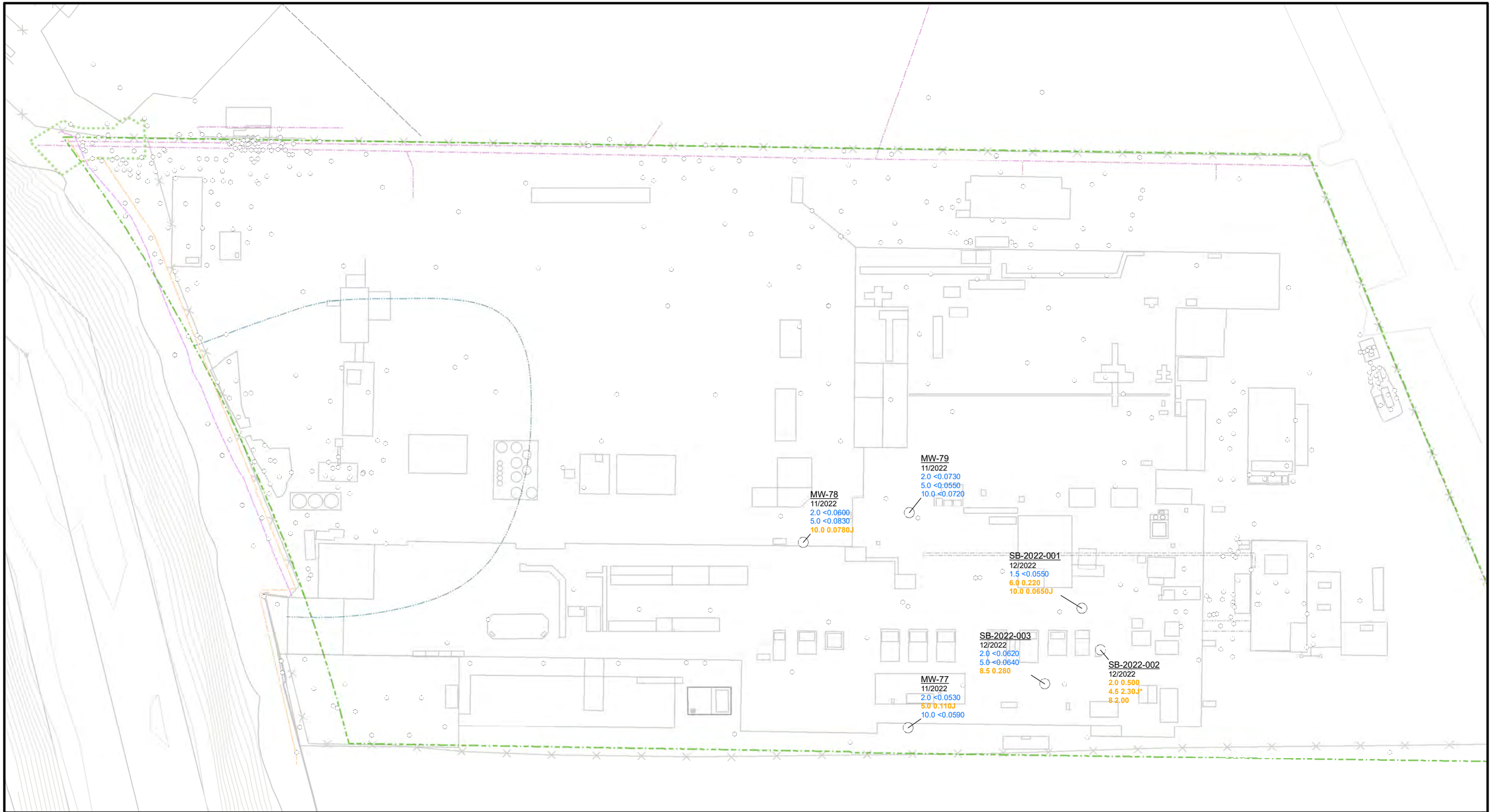
PFOS IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 47B

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/12/2024 KAC



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2	*Sample Location Name*
3/2012	*Sample Date*
2'-4' 220	*Depth : Result*
2'-4' 220	*Depth : Result (Detected)*
4'-6' 820	*Depth : Result (Non-Detect Over Screening Level)*
6'-8' 356,220	*Depth : Result (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of LNAPL in Soil
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in milligrams per kilogram (mg/kg).
2. Sample depths are in feet below ground surface.
3. Detections and detection limits (when not detected) have been screened against the most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for PFOA is 0.034 µg/kg.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

PFOA IN SOIL

September 2024 21-1-12596-40

SHANNON & WILSON FIG. 48A

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Soil_R4_20240817.mxd Date: 9/12/2024 KAC

MW-69
09/2022 3.50
02/2023 5.70

MW-70
09/2022 10.0
02/2023 10.0

MW-71
02/2021 2.70
11/2021 3.40
02/2023 4.20

MW-23
09/2022 <0.830
02/2023 0.870J

MW-50
09/2022 44.0
02/2023 26.0

MW-52
09/2022 5.70
02/2023 5.10

MW-53
09/2022 3.10
02/2023 3.40

MW-8
02/2021 3.20
11/2021 3.70J
02/2023 4.40

MW-46
09/2022 10.0
02/2023 4.60

MW-79
11/2022 41.0
02/2023 65.0

MW-54
09/2022 4.50
02/2023 4.10

MW-78
11/2022 5.90
02/2023 4.50

MW-41
09/2022 47.0
02/2023 45.0

MW-61
09/2022 200
02/2023 220

MW-72
02/2021 2.00
11/2021 3.00
02/2023 1.30J

MW-43
02/2021 50.0
11/2021 65.0
02/2023 67.0

MW-63
02/2021 19.0
11/2021 10.0
02/2023 17.0

MW-60
02/2021 180
11/2021 61.0
02/2023 170

MW-40
09/2022 30.0
02/2023 22.0

MW-64
02/2021 14.0
11/2021 13.0
02/2023 18.0

MW-36
12/2021 7.10
02/2023 37.0

MW-74
12/2021 350
02/2023 230

MW-32
09/2022 6.20
02/2023 18.0

MW-67
09/2022 8.20
02/2023 2.60

MW-38
09/2022 2.70
02/2023 2.30

MW-77
11/2022 18.0
02/2023 0.940J

MW-37
09/2022 7.50
02/2023 4.00

MW-68
02/2021 22.0
11/2021 2.20
02/2023 26.0

N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

NT = not tested

Analyte Result Key

T2B2 *Sample Location Name*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved*

1/2010 220 100 *Sample Date: Result - Total Result - Dissolved (Detected)*

1/2010 820 100 *Sample Date: Result - Total Result - Dissolved (Non-Detect Over Screening Level)*

1/2010 356,220 100 *Sample Date : Result - Total Result - Dissolved (Detection Over Screening Level)*

- Approximate Area JFOS Removal Action
- Estimated Extent of Dissolved-Phase TPH Impacts
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embayment
- Pipeline
- Fence

NOTES

1. Concentrations are in micrograms per liter (µg/L).
2. Well screened within the A unit unless noted with *.
3. Detections & detection limits screened against the most stringent groundwater preliminary cleanup level for nonpotable groundwater (PCUL). If no PCUL is available for nonpotable groundwater, the PCUL for potable groundwater has been used.
4. The PCUL for PFOA is 120,000 ng/L

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

PFOA IN GROUNDWATER

September 2024 21-1-12596-040

SHANNON & WILSON FIG. 48B

DRAFT FOR PUBLIC COMMENT

Filename: P:\GIS\SEA\21-1 SEA\12500s\12596_EMJ\2022_June\Results_Water_R4_20240817.mxd Date: 9/12/2024 KAC

APPENDIX A: SITE HISTORY AND USE

Appendix A

Site History and Use

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APPENDIX A: SITE HISTORY AND USE

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A.1 SITE HISTORY

Information presented within this section is derived from multiple documents but two have been primarily relied upon: (a) the Final Source Control Evaluation Report (SCER), prepared in May 2008 (Anchor Environmental and Farallon Consulting, 2008), and (b) the Final Source Control Evaluation Addendum Report prepared in March 2011 (Anchor QEA and Farallon, 2011).

The Site is located along the eastern shore of the Lower Duwamish Waterway (LDW). As shown in a 1932 U.S. Army Corps of Engineers (USACE) map (Exhibit A-1, below), fill was placed on the Site in late 1931. At the time, and until the mid-1940s, the western end of the Site was occupied by an embayment of the Lower Duwamish Waterway. A drainage channel is visible to the north of the Site (left side of Site in the map).

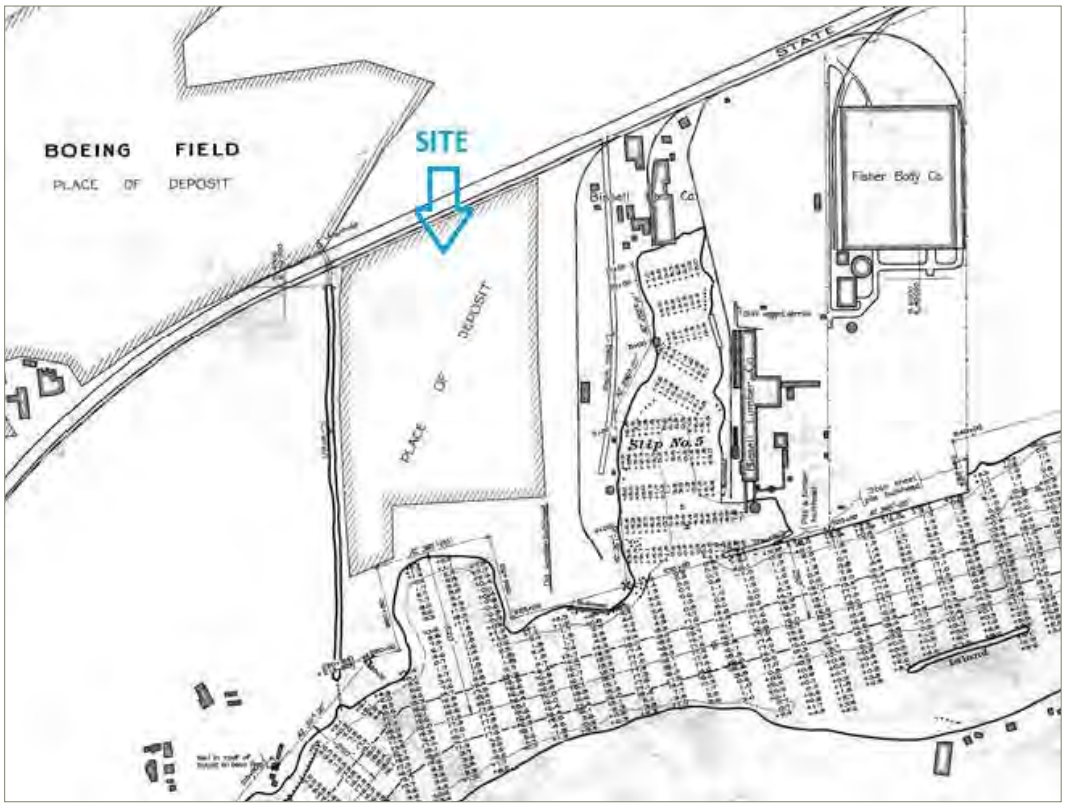


Exhibit A-1: 1932 USACE Map – 1931 Dredging

Exhibit A-2, below, shows a pre-development aerial photograph of the Site taken in 1936. The embayment is visible on the Site; Slip 5 is shown on the property to the south.



Exhibit A-2: 1936 Aerial Photograph – Pre-Site Development

The embayment was filled in 1944 under permits authorized by the USACE. Two permits were authorized, one to construct a wharf (called a wharf on the application and permit but hereafter called a bulkhead), and the second to place 55,000 cubic yards of dredged material behind the bulkhead. The dredged material was from between Slips 5 and 6 in the LDW. The bulkhead at the mouth of the embayment can be observed in mid-construction on the aerial photograph dated 1944 (Exhibit A-3).



Exhibit A-3: 1944 Aerial Photograph – Bulkhead Under Construction

The 1932 map (Exhibit A-1) and 1936 aerial photograph (Exhibit A-2) show that a drainage ditch existed near the current northern property line adjacent to the Boeing Plant 2 facility. The drainage ditch was used for agricultural drainage up until the 1930s when it was then used to drain a portion of the newly constructed King County Airport to the east. The drainage ditch appears absent by the mid-1940s aerial photographs, likely replaced by the installation of subsurface stormwater pipelines, concurrent with the development of the southern end of Boeing Plant 2 and the northern portion of the Site. The primary users of the stormwater lines were King County Airport and Boeing Plant 2. The Bethlehem Pacific Coast Steel Company facility discharged to one of the lines until the early 1960s and in 1996, the City of Tukwila (City) connected to the line.

The Site was first developed by Isaacson Iron Works for the U.S. Navy in 1942 during World War II to produce propeller shafts and other naval equipment. The U.S. Navy paid for the buildings and equipment. At that time, Isaacson owned the property and operated the plant for the U.S. Navy. In March 1961, Isaacson purchased the buildings and equipment from the U.S. Navy. Isaacson fabricated custom steel and aluminum parts on the Site

between 1945 and 1965. Operations included forging, heat treating, and machining (Exhibit A-4, below). Isaacson also owned the property to the south of the Site.

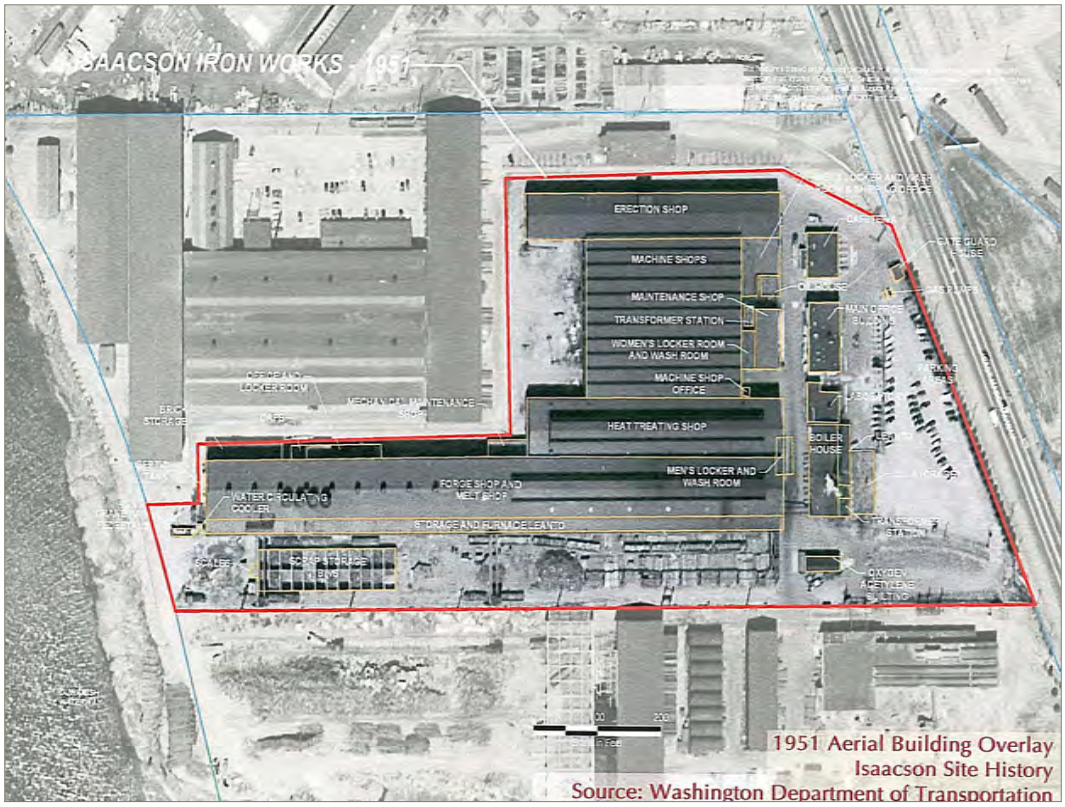


Exhibit A-4: 1951 Aerial Photograph – Isaacson Site History Notations

In 1956, Isaacson requested and received a permit to fill the western edge of the properties and construct a gantry dock on the adjacent property that they owned to the south and on the southern part of the Site. This gantry dock does not appear to have been constructed, but the Site was extended and is bound on the western side by the sheet pile/concrete panel bulkhead.

From 1949 to the early 1960s, Bethlehem Pacific operated a steel fabrication facility on the northwestern portion of the property (occupying much of the infilled embayment area) (Exhibit A-5). Operations included cutting prefabricated steel rods to customers' specifications and galvanizing. Galvanization is the process of applying a zinc coating to steel or iron products with the purpose of preventing rust and corrosion.

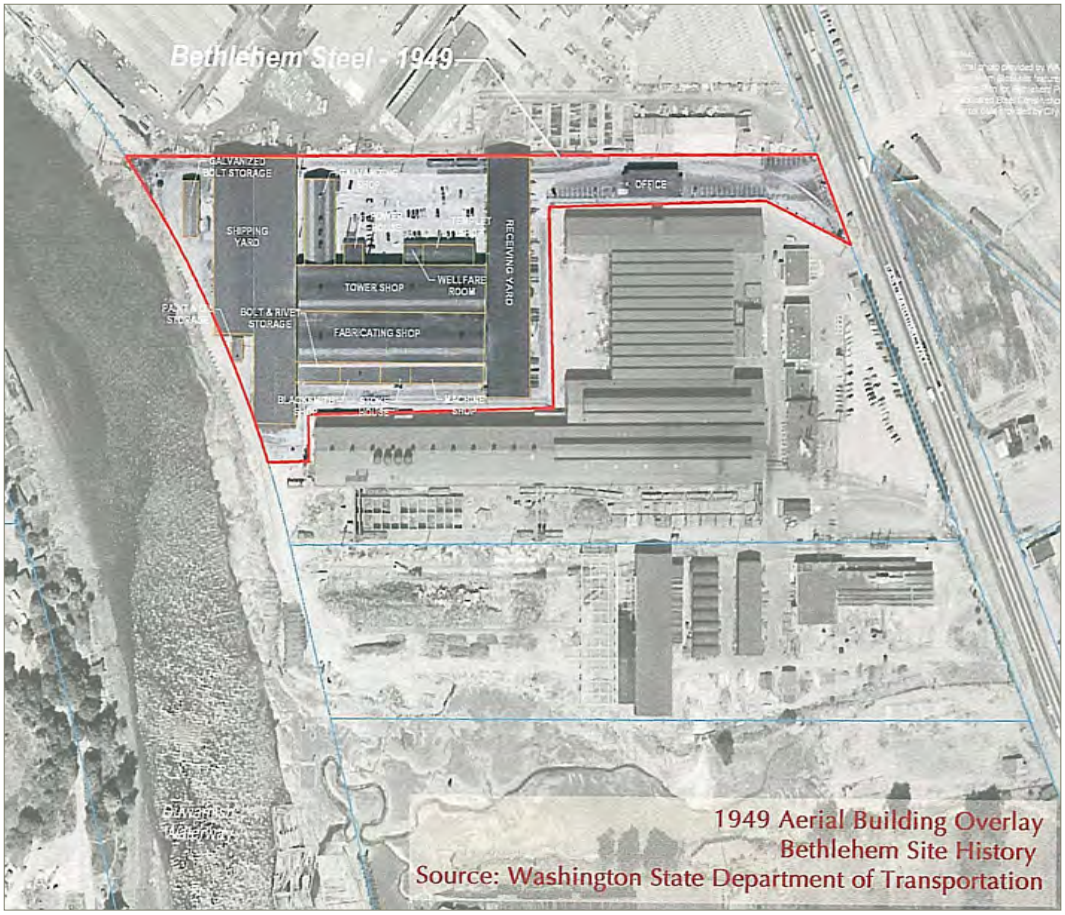


Exhibit A-5: 1941 Aerial Photograph - Bethlehem Pacific Site History Notations

The property bank alignment appears to have been altered sometime before 1960 (Exhibit A-6); the changes show the shoreline to be slightly straighter and the shoreline to the north of the Site partially filled in. Boring logs show fill along the shoreline area and within the former embayment.

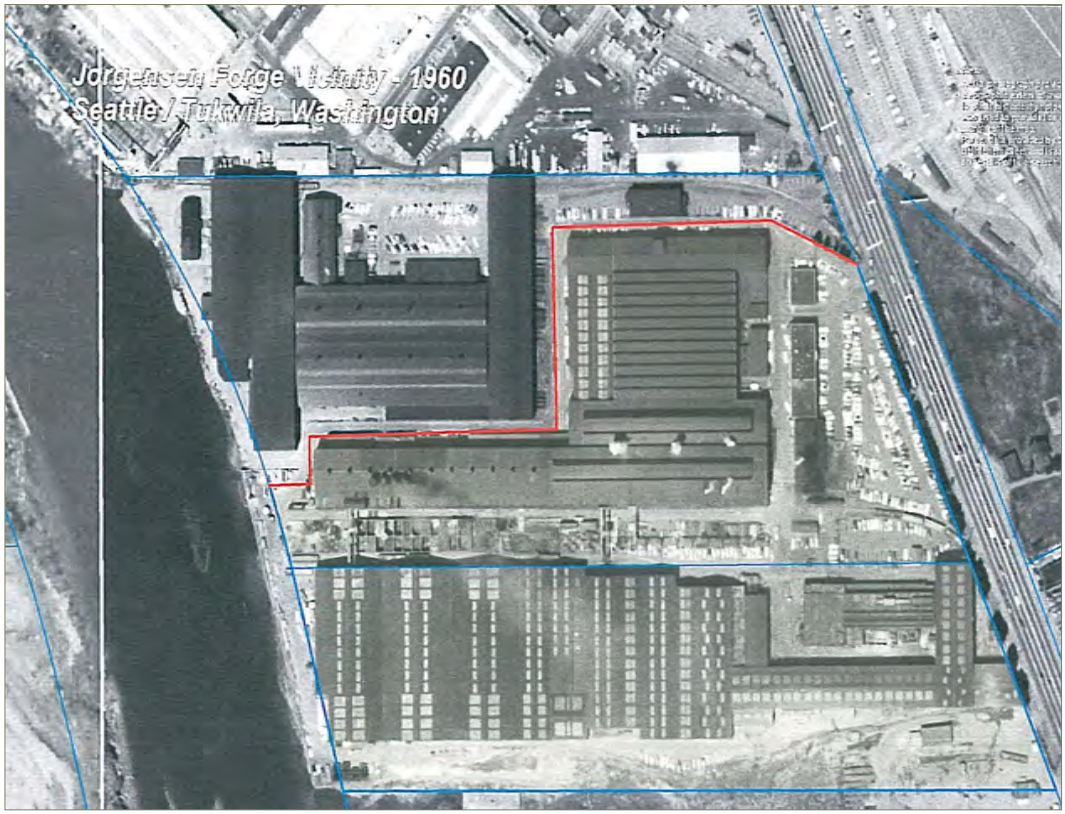


Exhibit A-6: 1960 Aerial Photograph

Aboveground structures associated with the Bethlehem Pacific facility were removed shortly after the facility closed in the early 1960s (Exhibit A-7). The original slab-on-grade concrete foundation for the Bethlehem Pacific facility is still present at the Site. No historical documentation regarding the removal activities has been identified; however, there is no evidence to suggest that belowground structures, such as stormwater conveyance lines, were removed.

Sometime between 1960 and 1969, the westernmost portion of the main building was extended to the sheet pile wall on the southwest corner of the property.

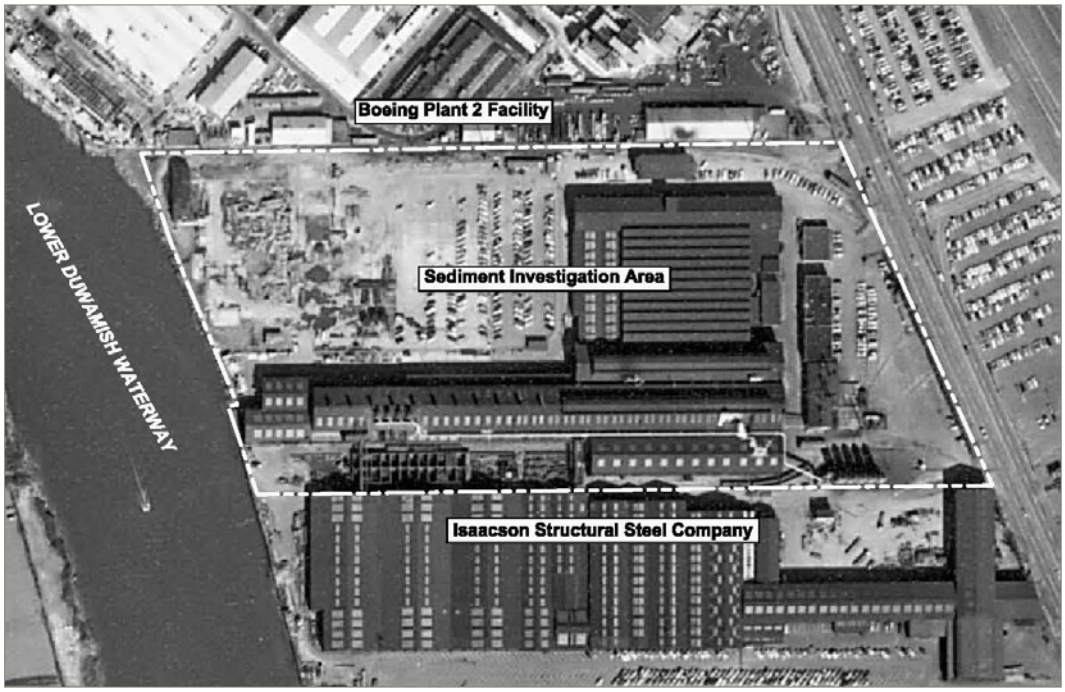


Exhibit A-7: 1969 Aerial Photograph – Bethlehem Pacific Facility Removed

In 1965, EMJ purchased both the Isaacson northern property and the Bethlehem Pacific property. EMJ owned and operated the facility until 1992. From 1992 to 2016, the property was owned and operated by JFC. Following JFC's bankruptcy, the Site became owned by Star Forge, LLC, which continued to operate the Site until operations at the facility were shut down in October 2018.

In 2023 and 2024, Star Forge demolished Site buildings, filled or covered vaults, and completed grading and paving activities. The Site currently consists of a fenced lot, the majority of which is paved with asphalt or concrete. Portions of the ground surface remain unpaved. The stormwater treatment system remains in the center of the property. As part of the demolition activities, unpaved areas within the main building have been paved, as well as a large portion of the southwestern corner of the Site. Engineered covers were placed over four former vaults.

A.2 HISTORICAL OPERATIONS AND GENERAL DESCRIPTION OF OPERATIONS

Until 2018, operations at the Site remained relatively unchanged during the prior 70 years. The Site was a steel and aluminum forge and mill that produced custom steel and

aluminum parts forged and machined to high precision specifications for various industrial clients. Major operations conducted at the Site have included:

- Forging steel ingots into billets and/or shape forgings,
- Heat-treating forged steel and purchased aluminum products,
- Grinding and machining steel billets to required specifications, and
- Ring rolling and/or expanding aluminum products to required specifications.

Major operations are discussed in more detail in the following sections. To aid in understanding the following discussion, key terms are defined below:

- Ingot: Metal that has been cast into a size/shape suitable for storage, transport, or further work.
- Forging: Heating metal until malleable and forcing into desired shape.
- Billet: Metal length with round or square cross section.
- Heat-treating: Controlled heating and cooling of metal to achieve desired properties.
- Ring rolling: Rolling a ring of metal to increase diameter.
- Slag: Non-metallic byproduct leftover after the desired metals have been separated using heat from the raw material.
- Swarf: Pieces of metal formed as a byproduct of metal machining, also referred to as chips, turnings, filings, and shavings.

A.2.1 Melt Operations

Melt operations were discontinued at the Site in January 2015. Historically, operations included melting scrap steel (both return scrap and purchased scrap) in ladles within large furnaces located in the Former Melt Shop Area, located within the western portion of the main building. The molten steel was poured into molds to form ingots. Once cooled, the ingots were extracted from the molds and stored until further work was performed.

The melting process generated dust, which was captured by the melting bag house vacuum and conveyed through closed pipelines to the melt bag house, which is located outside of the main building to the north of the Former Melt Shop Area. Within the bag house, the dust was deposited into a closed, sealed bin, which was situated on a concrete slab. This bin was directly transferred to a collection agency for off-property disposal as a dangerous waste designated as K061.

Oxidizing slag material was used during melt operations to remove unwanted elements. Reducing slag was used within the argon-oxygen decarbonization (AOD) unit to reduce the steel to maintain desired elements within the matrix. Ferro alloys were also added to the

molten steel to meet specifications. Following the melting process, the slag was removed from the ladles and temporarily stored at the southwest corner of the Site prior to recycling or offsite disposal. Prior to 2013, the slag was stored outside. In 2013, outside slag storage ceased and the surface soils were removed and disposed of at a Subtitle D landfill. The area was graded and covered with clean gravel.

Twenty-four scrap storage bins, located outside of the main building to the south of the Former Melt Shop Area, within the Former Metals Storage Area, were used to store scrap and debris. The bins were constructed in the early 1940s and consisted of large concrete partitions that extended approximately 10 to 15 feet above grade. According to an employee who worked at the facility during the time the bins were used and removed, the bins extended to approximately 8 feet below grade. The 24 bins had concrete bottoms. During operation, heavy pieces of metal were dropped into the bins that may have caused fractures to the concrete bottoms. Between 2008 and 2009, the bins were decommissioned. A magnet was used to remove the metal contents from the bins; however, rusting and compaction likely caused some metal to stick to the bin walls, preventing full removal (Turk, 2020). The concrete structure was removed to just below grade and covered back to grade with crushed rock. Following this removal, the former scrap storage bin area and adjacent unpaved areas along the southern facility boundary were paved to reduce the potential for migration of dust and dirt to paved surfaces and the stormwater drainage system. Following closure of the bins, scrap was stored within a containment surrounded by concrete blocks located south of the Former Melt Shop Area until melt operations were discontinued in 2015.

A.2.2 Forging and Heat Treatment

Forging and heat treatment operations were conducted within the Forge Shop and Heat Treat Areas. Ingots were heated to specified temperatures within forge furnaces and transferred to presses to form billets. During recent operations, four hydraulic presses were in use at the Site, including the 660-, 1,250-, 2,500-, and 5,000-ton presses. Each press was operated by hydraulics and had its own hydraulic oil storage, power, and pump system. Horizontal and vertical quench tanks were used to control the cooling of the metal to develop specific properties (heat treatment).

A.2.3 Grinding and Machining

Following forging and heat treatment (if necessary), the outer coating of the billets was removed through grinding using a garnet grit (Emerald Creek Garnet and Abrasive Grains and Powders). The billet grinding bag house vacuum operation collected dust and small size swarf generated during the grinding operations through a bag filter system. The captured dust/swarf was conveyed via a closed system to a sealed hopper. The resulting

grinding "swarf" was transferred from the sealed hopper and stockpiled on the property pavement surrounded by stacked Ecology blocks to the south of the Former Melt Shop. Prior to closure of the Former Melt Shop Area in 2015, the swarf was either recycled on site to recover the metal or was shipped offsite on trucks or railcars for third-party recycling. Most recently, the swarf was all shipped offsite.

Various machining operations were completed at the Site. Steel and aluminum billets were machined to exact specifications on lathes in the Machine Shop Area. Certain cylindrical steel pieces were bored along the axis on the Hollowbore machines located within the Hollowbore Area. Certain aluminum products were cut in the ring mill and/or expanded on the ring mill expander in the Forge Shop Area.

Most recently, steel and aluminum metal chips that resulted from machining operations were collected and direct-loaded to covered bins located outside of the main building to the west of the Machine Shop Area. This area was on a paved surface and covered with a wooden roof. The bins were used to transport the metal chips offsite to recycling centers. Prior to closure of the Former Melt Shop Area, the chips were reused in the manufacturing process. They were stored in an uncovered area within the Former Metals Storage Area in the southwest corner of the Site. This area was reportedly cleaned and closed in June 2015. Hydraulic oil was used by several of the lathes and the ring mill expander. The ring mill cutting machine used water-based coolant.

Once machining is complete, the metal products were cleaned, tested, and stored in the Shipping Area (located in the northwest corner of the main building) pending shipment offsite. Historically, products were cleaned using a dry-cleaning solvent (i.e., P-D-680 [mineral spirits product]) and fingerprint remover/neutralizer (Tectyl 833 [petroleum-based product] or equivalent). Reportedly, Solvent Gold was most recently used for this activity. Solvents were stored in small, sealed containers in fire-safe lockers in the Shipping Area. The final machined products were thoroughly cleaned by applying the cleaning solvent onto a clean rag and wiping the metal surface.

Corrosion and tensile strength testing of steel produced in the manufacturing process was conducted within the metallurgical laboratory, located within the central portion of the Site.

A.2.4 Facility Closure Activities

Facility operations ceased in October 2018 and Star Forge intends to sell the property. Prior to the sale, Star Forge is pursuing Clean Closure under the Washington State Dangerous Waste requirements. DH Environmental organized the Clean Closure activities on behalf of Star Forge. Cleaning of the facility commenced in October 2019.

Shannon & Wilson conducted a walk-through of the facility in September 2018 and documented the condition and dimension of the vaults. Between October 2019 and March 2020, Shannon & Wilson visited the facility on multiple occasions to observe the cleaned vaults.

Events that occurred and information obtained during Star Forge's Clean Closure process led Washington State Department of Ecology (Ecology) to name Star Forge as a potentially liable person for the release of hazardous substances at the Site (Ecology, 2022). Star Forge has entered into an Agreed Order (No. DE21034) with Ecology to conduct an Interim Action at the Site to permanently close underground storage tank (UST) systems, decontaminate and/or remove concrete and asphalt slabs at the Dangerous Waste Management Units, and remove limited soil to facilitate paving. Star Forge completed their Clean Closure activities and Interim Actions in 2023 and 2024 along with demolition of the entire facility. Unpaved areas within the former buildings and at the southwest corner of the Site were paved following demolition. Some portions of the Site remain unpaved.

A.3 SITE AREAS FROM WORK PLAN

For the purposes of the Remedial Investigation Work Plan (Shannon & Wilson, 2020), the Site was divided into nine areas as illustrated in Figure A-1. Site area boundaries were mostly selected based on Site activities conducted within the areas and chemical usage associated with the area-specific activities. In general, these were not "areas of concern," but were selected to aid in discussion and evaluation of previously collected environmental data. Each area is briefly described below. The numbers applied to Areas 1 through 4 are generally consistent with numbers assigned by SECOR during investigation completed in the 1990s. In some cases, contamination resulting from the operations in an area may extend beyond the area boundary. Some contaminants, most notably vinyl chloride, are present in multiple areas of the Site and do not have an apparent Site source.

Specific details on the operation of the relevant equipment within each area can be found in the SCER (Anchor and Farallon, 2008). In 2007, vaults, chemical storage areas, and waste storage areas were inspected in support of the SCER. Summary tables documenting the inspection were provided within the SCER. Due to the time that has elapsed since the 2007 inspections and because facility operations were scheduled to cease in October 2018, Shannon & Wilson completed a facility walk-through in September 2018. Findings from the September 2018 facility walk-through, including detailed descriptions of observed Site features, observations, and measurements, are provided within Table A-1. Observations made during visits completed between October 2019 and January 2022, following vault cleaning activities, have been added to the table. Observations from the September 2018

facility walk-through and 2019 through 2022 visits are incorporated into the following Site area descriptions.

Aqueous film forming foam (AFFF) fire suppression systems were observed within the pump rooms for the 660-, 1,250-, and 2,500-ton presses and within the vault for quench tanks 1, 2, and 3 (Q1/Q2/Q3 vault). Because these systems are in multiple areas of the Site, they are discussed in Section A.3.10.

A.3.1 Area 1 – Hollowbore Area

Area 1 included the northern end of the main building and adjacent outside areas to the west, north extending to the northern property boundary, and east of the building. The Area 1 boundary was selected to encompass the Area 1 light nonaqueous phase liquids (LNAPL) plume and potential source features. Within the main building, Area 1 included the Hollowbore Area, a portion of the Machine Shop Area, and the Shipping Area. Outside of the main building, Area 1 encompassed a portion of the main office to the north and includes the heating oil UST for the main office.

Within the Hollowbore Area, lathes were used to remove the annular material from along the axis of cylindrical shafts. Lathe 58 was a Rhiensthal-Wagner lathe, which removed the material in chips. Lathes 59 and 60 were Niles lathes that removed the material as a solid plug. A Frenchman 63 vertical lathe and a Tacchi deep bore lathe (Tacchi #2) were also used within the Hollowbore Area. An additional Tacchi deep bore lathe was used within the Machine Shop Area. Historical reports also refer to Lathe 61, as a Niles lathe, previously used within the Hollowbore Area (SEACOR, 1993b). Large quantities of cutting oils were used to lubricate the lathes when operational.

As shown in Figure A-2, multiple vaults are present within Area 1, including:

- Carlton vault
- Frenchman 63 lathe vault
- Hollowbore 59/60 lathes vault
- Hollowbore 59/60 lathes cutting oil holding tank vault (outside to the north of the main building)
- Hollowbore 58 lathe vault and oil-return trench
- Ingersoll vault
- Large and Small Freight Scales vaults
- MAE vault
- Tacchi lathe vault

- Tacchi #2 vault

During the September 2018 facility walk-through, vaults within Area 1 were observed to extend to depths of approximately 5 to 11 feet below floor surface (bfs). Pooled oil was observed within the vaults. Visible portions (i.e., portions not obscured by equipment, pooled oil, or accumulated metal chips) of the vaults were typically observed to be in good condition with minor cracking. The Hollowbore 59/60 lathes vault had larger cracks, and a small section of the east wall was cut out to allow for pipes to enter the vault. Oil-soaked soil was observed outside of the cut-out and it was apparent that oil had seeped into the vault from the soil in this area. Following vault cleaning activities, a large crack was observed in the floor of the Hollowbore 59/60 lathes vault at 6.5 feet bfs. This crack was not observed when the vault was operational since it was covered in oil. The crack had about a 1/8-inch separation and was filled with crumbled concrete. Detailed descriptions of each vault and observed conditions are presented within Table A-1.

Multiple USTs (all but one situated within vaults) were used within Area 1, including an 11,000-gallon UST used to store cutting oil for the Hollowbore 59 and 60 lathes. The UST is located outside and adjacent to the north end of the main building within a concrete vault (Hollowbore 59/60 lathes cutting oil holding tank vault) that extends approximately 9 feet bgs (Anchor and Farallon, 2008). As shown in Figure A-3, a smaller (240-gallon) intermediate UST was also used for the Niles lathes. The intermediate UST was present within the Hollowbore 59/60 lathes vault. Two USTs (5,000- and 5,500-gallon), used for lathe 58, were present within the Hollowbore 58 lathe vault. A 2,500-gallon UST was reportedly used for the Tacchi lathe. The UST was not observed during the September 2018 Site walk-through but was reportedly located within the Tacchi lathe vault within the Machine Shop Area (Figure A-3). During the 2019/2020 Site visits, the vault was observed; however, the tank had already been removed.

Historically, a 4,000-gallon aboveground storage tank (AST) was used to store make-up cutting oil for the lathes. As shown in Figures A-2 and A-3, the AST was located outside to the northwest of the main building within concrete secondary containment. A belowground supply line reportedly ran from the AST to the northwest corner of the main building and east along the outside of the main building to the center of the Hollowbore 59/60 lathes vault where it turned to enter the main building (SEACOR, 1993b). The cutting oil AST was removed and cutting oil is now delivered in totes and drums and transferred using hoses directly into the appropriate reservoir (URS, 2005).

As shown in Figures A-2 and A-3, a 600-gallon heating oil UST is located to the west of the main office and north of the main building. Within the Shipping Area, located inside the main building to the east of the Hollowbore Area, metal products were cleaned, tested, and

stored pending offsite shipment. Historically, products were cleaned using a mineral spirits product (i.e., P-D-680) and a petroleum-based fingerprint remover/neutralizer (Tectyl 833 or equivalent) (Anchor and Farallon, 2008). Reportedly, Solvent Gold was most recently used for this activity (PES Environmental, 2015). In September 2018, six flammable lockers were observed within the Shipping Area. The lockers contained small containers of spray paint, spray adhesives, acetone, Protectsol 512 (petroleum solvent and corrosion inhibitor), petroleum lubricants, thread cutting oil, degreaser, SKL-WP2 (liquid dye penetrant), and Tectyl 894 (petroleum-based corrosion prevention compound). Some staining was noted within the lockers and on the concrete floor outside of the lockers.

A.3.2 Area 2 – Oil-Water Separator and Decommissioned Diesel Storage Area

The Area 2 boundary was selected to encompass the Area 2 LNAPL plume and potential source features. Area 2 includes the southeast corner of the main building and extends south and east to the property boundary. Within the main building, Area 2 encompasses a portion of the Forge Shop Area and Heat Treat Area, including several presses, forge furnaces, quench tanks 5 through 7 (Q5 through Q7), the ring mill, and the ring expander. Outside of the main building, Area 2 includes an outdoor railroad scale, the Aluminum Heat Treat Building (AHTB) that includes a drop furnace and quench tank 8 (Q8), an oil-water separator, and the Decommissioned Diesel Storage Area.

The oil-water separator is located west of the northwest corner of the AHTB between the AHTB and the main building. The oil-water separator was reportedly installed in 1968 to separate residual or spilled hydraulic oil that collected in a sump in the 3,000 ton (more recently a 5,000 ton) hydraulic press pit. The oil-water separator is encased in concrete and is located beneath the roadway pavement and structural concrete. It extends to approximately 5.5 feet bgs (Anchor and Farallon, 2008). The separator had reportedly overflowed on several occasions before the system was redesigned (SEACOR, 1993d). After redesign, the oil-water separator reportedly received air-conditioning condensate, water from the L and F press (though no sump pumps were observed within the L and F press vault in September 2018), and water from the oil-water separator located in Area 4. Water from the oil-water separator discharged to the sanitary sewer. During the 2019/2020 Site visits, the oil-water separator was observed after it had been pumped dry. The vault floors were concrete and were visibly crumbled and cracked. The Area 2 oil-water separator is believed to be the source of hydraulic oil LNAPL observed within Area 2 wells.

The Decommissioned Diesel Storage Area lies immediately to the east of the AHTB and includes a bank of eight 12,000-gallon ASTs situated within a belowground concrete vault. The tanks reportedly have not been used since approximately 1996, following discovery of

diesel LNAPL within Area 2. The tanks were used to store diesel fuel as a backup fuel for Forge Shop furnaces. The fuel was transported to and from the furnaces via subsurface supply and return piping. Some of the piping was routed through utilidors; the remaining piping was present in soil below the AHTB. A fuel return line below the AHTB is believed to be the source of diesel LNAPL observed within Area 2 wells.

Vaults identified within Area 2, include:

- 660-ton press vault
- 1,250-ton press vault
- 5,000-ton press vault
- Billet storage scale vault
- Decommissioned Diesel Storage Area vault
- Former truck scale
- Gear Box Pits (4 total)
- L and F press vault
- Ring expander vault
- Ring mill vault
- Ring mill coolant storage vault
- Outdoor railroad scale vault
- Q5/Q6 vault
- Q7 vault
- Q8 vault
- Small ring mill vault

As shown in Figure A-3, multiple ASTs and USTs ranging in capacity from 300 gallons up to 12,000 gallons were used within Area 2, including Q5 through Q8, hydraulic oil tanks used to operate machinery, diesel tanks historically used to fuel the Forge Shop furnaces, and coolant storage tanks for the ring mill. Most recently, Q5, Q7, and Q8 contained water and Q6 contained Martemp 2525 (mineral oil product). Q6 previously contained Houghton Quench K (a mineral oil and resin product) and Q7 contained a polymer fluid (Anchor QEA, 2011). Except for the L and F press hydraulic oil tank, the USTs and ASTs were situated belowground within vaults or aboveground within pump rooms. The 700-gallon L and F press hydraulic oil tank was situated on a raised concrete platform within the Forge Shop Area. During the September 2018 facility walk-through, visible portions of the vaults and pump rooms were observed to be in good condition with minor cracking. Oil was observed

on the floors and walls of many of the vaults and pump rooms. Metal chips were also commonly present. Detailed descriptions of each vault and pump room and observed conditions are presented within Table A-1.

A.3.3 Area 3 – Former Underground Storage Tank Area

Area 3 is located adjacent to the Site entrance along the eastern Site boundary and includes an area previously occupied by three USTs. The tanks included an 8,000-gallon UST, a 1,000-gallon UST, and a 2,000-gallon UST. The 8,000-gallon UST was reportedly installed in 1978, registered with Ecology, and used to store gasoline. It is not known when the 1,000- and 2,000-gallon USTs were installed and what they were used to store, though it is presumed that they were used to store gasoline (SEACOR, 1993c). The USTs were removed in 1991.

A.3.4 Area 4 – Decommissioned Oil Storage Area

Area 4 includes the Decommissioned Oil Storage Area, the Oil Recovery Area, the Oil House, and the auto and carpentry shop portions of the main building.

The Decommissioned Oil Storage Area includes ten 15,000-gallon tanks, which were situated within the basement of a former office building and were partially above-grade (SEACOR, 1993a). The tanks were used to store heating oil and diesel fuel. Following tank tightness testing, it was reported that use of all but the southernmost UST was discontinued. Three of the USTs (those which failed tightness testing) were closed in place by filling with inert material in 1991. The southernmost UST was repurposed as a settling tank within the Oil Recovery Area.

The Oil Recovery Area includes an oil-water separator comprised of the settling tank and a used oil centrifuge; a clean hydraulic oil tank; and a waste oil tank. Hydraulic oil captured within sumps located within the 5,000-, 2,500-, and 1,250-ton press vaults located within the main building was pumped to the settling tank to allow for solids to settle out of the oil. The oil was then sent to the used oil centrifuge to further remove contaminants. The cleaned oil was sent to the clean hydraulic oil tank and water was sent to the oil-water separator in Area 2. The waste oil tank, situated within a partially belowground vault, received waste oils generated across the Site that were typically collected in mobile totes and manually transferred to the tank. During the 2019/2020 Site visits, the waste oil tank vault was observed following removal of the tank. The vault floor and walls up to six inches above the floor were stained. No seeps or large cracks were noted.

Vaults identified within Area 4, include:

- Decommissioned Oil Storage Area vault

- H-18 Gear Box Pit vault
- Waste oil tank vault

Area 4 also includes the Oil House, a cinderblock structure with concrete floors and a concrete berm. In September 2018, the Oil House was observed to contain multiple 55-gallon drums of unused petroleum products including lubricants, hydraulic fluids, and gear oils. Acetone was also observed within the Oil House. The concrete floor that appeared to be in good condition was noted to have some staining and some damage was noted to the berm.

Detailed descriptions of observed Area 4 features are presented within Table A-1.

A.3.5 Area 5 – Remaining Building Interior Area

Area 5 includes interior sections of the main building that are not within other areas. The area includes portions of the Heat Treat Area, the Forge Shop Area, and the Machine Shop Area. Several furnaces, quench tanks 1 through 4 and 9 (Q1 through Q4 and Q9), a previously unidentified underground quench tank (situated within a vault), the 2,500-ton press, a bar peeler, multiple vaults, and tanks ranging in capacity from 30 to 13,000 gallons were used within Area 5.

Historical operations were generally consistent with recent operations and included heat treatment, forging, and machining. Equipment use has varied somewhat over time; for example, Q2 has not been in use for over 30 years and has been emptied and cleaned (Anchor QEA, 2011).

Vaults within Area 5 include:

- Billet grinder vaults
- Bueltman bar peeler oil-return vault
- 2,500-ton press vault
- West craven lathe vault
- East craven lathe vault
- Electrical trench vault
- Former Underground Quench Tank vault
- Gear Box Pit vaults (8 total)
- Large Hypro vault
- Q1/Q2/Q3 vault

- The Planer (Kysor) vault
- Small and Large Bullard vaults

The Planer (Kysor) vault was observed after equipment was removed in 2019. The vault had a concrete floor and walls. The walls and floors appeared to be in good condition. Some oil stains and fresh oil were visible on the center sunken section of the vault floor. Some oil was observed to have flowed from under two metal beams and dried on the vault floor. The metal beams were bolted to the vault floor and spanned the sunken area. An oil absorbent pad was placed in this area. This is not considered to be an oil seep as no on-going contribution was observed. The purpose of this sunken (about 5 feet bfs) section is not known.

The Large Bullard vault was observed when equipment was removed. The vault, which is located at the east end of the Machine Shop area, had a concrete floor and walls. The vault floor was 1-foot bfs. A seep of product was observed at the northeast bottom corner of the vault and tested for hydrocarbons and polychlorinated biphenyls (PCBs). Lube oil was detected.

The Former Underground Quench Tank vault, discovered during Dangerous Waste clean closure activities, was named by SoundEarth. We have used the same name for this feature to limit confusion. The purpose of this vault, which was approximately 9 feet by 6 feet in size and extended to approximately 12 feet bgs, is not known.

Observations from the September 2018 Site walk-through and 2019/2020 Site visits for features within Area 5 are presented in Table A-1.

A.3.6 Area 6 – Former Bethlehem Pacific Facility

Area 6 encompasses the location of the Former Bethlehem Pacific Distribution Facility within the northwest quadrant of the Site. The facility structures were removed in the early 1960s. Slab-on-grade concrete foundations remain. Belowground structures associated with the Former Bethlehem Pacific Distribution Facility, such as stormwater conveyance lines, likely remain within Area 6. The facility reportedly cut prefabricated steel rods to customer's specifications (Anchor and Farallon, 2008) and likely utilized petroleum products, cleaning solvents, paints, and thinners (SEACOR, 1992).

More recent Site features within Area 6 include the Former Etch House and Acid Pit, the Melt Bag House, the current stormwater treatment system, the covered metal chip storage area, the Former Steam Clean Area, and associated former oil-water separator, a former gasoline AST (discussed within Section 6.3.5), and the laboratory. Observations from the September 2018 Site walk-through for features within Area 6 are presented in Table A-1.

A.3.7 Area 7 – Former Metals Storage Area

Area 7 includes the Former Metals Storage Area, located outside along the southwestern portion of the property, and the Former Melt Shop Area of the main building.

The Former Metals Storage Area historically included 24 large concrete scrap metal storage bins (previously discussed within Section 2.2.1). The bins were removed in 2008-2009.

The Former Metals Storage Area has also been used to store chips, slag, and swarf, including storage on unpaved surfaces in the southwest corner of the Site. Following closure of the scrap metal storage bins, scrap was stored within a paved concrete block containment area. According to a 2009 Ecology National Pollution Discharge Elimination System (NPDES) permit compliance inspection, the material within this area had "enough petroleum in it to warrant the use of absorbent pads" (Ecology, 2009). During an inspection completed in 2014, it was noted that a collection trench was present in this area to direct the fluids (described as cutting fluids) to a vault that was vacuumed out for disposal by a subcontractor (Ecology, 2014). The exact location of this feature is unknown; as such, it is not presented in figures. This area was removed when melt operations were discontinued in 2015. During a 2016 NPDES permit compliance inspection, the concrete block storage area and vault were no longer present (Ecology, 2016).

The Former Melt Shop was used to melt scrap metals within large furnaces for the purposes of forming ingots. Vaults within Area 7 include(d):

- AOD tapping vault
- AOD scale vault
- Arc furnace vault
- Cooling Tower Pit South Side Melt Shop vault
- Electrical Trench vault
- F-1 Gear Box Pit vault
- Former scrap storage bins
- Ingot mold vaults
- Outdoor scrap metal scale vault
- Soaking furnace vault
- Vacuum degassing vaults

Two hydraulic oil tanks were used for the arc furnace and were situated within the arc furnace vault. During the September 2018 Site walk-through, the vaults appeared to be in

good condition; however, dust, metal, and debris were present throughout the area and prevented viewing all surfaces. Dirt floors were present within some areas of the Former Melt Shop. During the 2019/2020 Site visits, groundwater seeps were observed within the arc furnace vault and the vacuum degassing vaults and cracks were noted in some vaults. Metal debris, dirt, and a petroleum odor were noted on the floor of the outdoor scrap metal scale vault. Observations are presented in Table A-1.

A.3.8 Area 8 – Shoreline and Former Embayment

Area 8 includes shoreline areas of the Site, not including the northwestern corner, which has been included within Area 9. Area 8 extends into the property along the approximate extent of the former embayment. The southern portion of the property shoreline abuts the LDW with a vertical sheet pile bulkhead and concrete panel wall. The remaining shoreline areas are roughly sloped at a 3 Horizontal to 1 Vertical ratio and covered with granular activated carbon-amended filter material, armor material, and rounded habitat material. As shown in Figure A-1, the border of Area 8 overlaps portions of Areas 6 and 7.

Site activities along the shoreline have been limited; they formerly included a swarf storage area along the center portion of the Site and slag storage at the southwestern corner of the Site. Prior to 1982, steam cleaning operations were reportedly completed in the swarf storage area (SEACOR, 1992). Cooling towers for the Former Melt Shop are located within Area 8.

Several features discussed within the Area 6 section are present within the former embayment portion of the area where it overlaps with Area 6.

A.3.9 Area 9 – Northwest Corner and Northern Property Boundary

Area 9 includes the northwest corner of the Site and the area along the northern property boundary with Boeing Plant 2, specifically Boeing Area 2-66 and the South Yard Area. Documented migration of chemicals of concern (COCs) from Boeing Plant 2 (Floyd | Snider, 2012; Environmental Partners, Inc. and others, 2005) have included soil and groundwater impacts associated with Boeing RA 4, RA5, and RA 9, specifically with a former trichloroethene tank and associated piping system (Roy F. Weston, Inc., 1998) and PCBs in soil associated with an electrical substation within Boeing's OA 11 (Floyd Snider McCarthy, Inc., 2004; Floyd | Snider and Weston Solutions, Inc., 2005; Floyd | Snider, 2016).

Site features within Area 9 include a storage building within the northwestern corner of the property, the diesel fueling and used oil storage building that contains a diesel AST, a truck scale, and railroad spur lines. Area 9 overlaps with portions of Area 1. Features within the overlapping area, including the main office and the former aboveground cutting oil supply

tank for the Hollowbore 59/60 lathes, were discussed with the Area 1 section. The Jorgensen Forge Outfall Site (JFOS) is in Area 9.

A.3.10 Aqueous Film Forming Foam Fire Suppression Systems

Based on Shannon & Wilson's observations, an interview of a former employee at the Site (Wayne Turk), and information provided by the current owner based on an affidavit of a former employee at the Site (Michael Lewis), three AFFF fire suppression systems were formerly installed at the Site to serve the 660-, 1,250-, and 2,500-ton presses. The system for the 2,500-ton press also appears to have served the vertical furnace within the vault for Quench Tanks 1, 2, and 3 (Q1/Q2/Q3). AFFF solution/water has at least once, been stored in the Used Oil Storage Building in the northwest corner of the Site (observed by Ecology in 2015).

A.3.10.1 System Descriptions

Each of the three AFFF fire suppression systems at the Site included an AFFF tank. The tanks were located on top of the 660-ton, 1,250-ton, and 2,500-ton press pump room structures. During a September 2018 facility walk-through, Shannon & Wilson observed the tanks to be present. During subsequent visits conducted in November 2021 and January 2022, Shannon & Wilson had the opportunity to more closely observe the 660-ton (Exhibit A-8) and 2,500-ton (Exhibits A-10, A-11, and A-12) press AFFF tanks. The 1,250-ton (Exhibit A-9) press AFFF system was not present during the 2021 and 2022 visits.



Exhibit A-8: AFFF System at the 660-Ton Press Pump Room (November 2021)



Exhibit A-9: 1,250-Ton Press and Pump Room (September 2018)

Shannon & Wilson observed the 660-ton press AFFF tank to have one discharge pipe that led down into the 660-ton press pump room. The 2,500-ton press AFFF tank was observed to have three discharge pipes, one to the 2,500-ton press pump room, one to the 2,500-ton press pit, and one labeled as "V2." Based on AFFF placards noted on the wall next to the Q1/Q2/Q3 vault, it appears that the "V2" label likely referred to the vertical furnace within the Q1/Q2/Q3 vault.

Metal placards affixed to the 660-ton and 2,500-ton press AFFF tanks stated that the tanks were built in 1982. The date of install is not known; however, inspection tags indicated that the tanks were inspected as early as April 1995. More recent service labels affixed to the tanks stated that the foam was tested annually between 2014 and 2017 by a company called The Safety Team. According to Andrew Saechao of The Safety Team, tanks are serviced based on the configuration and he had no records stating how testing of the tanks at the JFC property was undertaken. He indicated that the testing records were submitted to the City Fire Marshall's office. A freedom of information request was submitted to the City Fire Marshall's office in November 2021. The City-supplied records did not provide any relevant information related to the AFFF systems or annual testing at the Site. It is not known if the annual servicing required the foam to be dispensed at the facility.

Placards, inspections tags, and service labels for the 1,250-ton press AFFF tank could not be reviewed during the visits conducted in 2021 and 2022 (because the system was no longer

present at the Site), but it is likely that the tank was of a similar age and maintained in a similar manner to the other AFFF tanks.



Exhibit A-10: AFFF Wall Decals on the Exterior of the 2,500-Ton Press Pump Room (January 2022)



Exhibit A-11: Interior of the 2,500-Ton Press Pump Room with AFFF Tank Visible on Roof (January 2022)



Exhibit A-12: AFFF Tank and Piping on Roof of the 2,500-Ton Press Pump Room (January 2022)



Exhibit A-13: AFFF Placard on Wall Adjacent to Q1/Q2/Q3 Vault (January 2022)



Exhibit A-14: Sprinklers on Westernmost Quench Tank (January 2022)

A.3.10.2 System Removal Activities

The 660-ton, 1,250-ton, and 2,500-ton presses were sold and removed from the Site in 2019 (Marten Law, 2022). The 660-ton and 2,500-ton press pump room structures were demolished during 2023 and 2024. The 1,250-ton press pump room structure was removed between 2019 and 2022.

In June 2022, the 660-ton and 2,500-ton press AFFF tanks and their contents were removed by DH Environmental. Based on a field report generated by DH Environmental, it appears that the 660-ton and 2,500-ton press AFFF system removals were conducted in a manner that would minimize the chance for impact to the Site (DH Environmental, 2022). The 600-ton and 2,500-ton AFFF systems were removed by draining the AFFF to metal drums. After draining, a bag of diatomaceous earth granular adsorbent was added to each vessel to absorb any liquid residue and the lids were secured back to the AFFF vessels. Absorbent pads were inserted into any open pipe ends. Plastic sheeting and absorbent pads were placed beneath the work area. Reportedly, no product dripped from the piping or vessel. The piping, vessels, personal protective equipment, and absorbent pads were placed into a roll-off container. The roll-off container and the metal drums of liquid were transported for disposal at Chemical Waste Management in Arlington, Oregon.

The tank for the 1,250-ton press was present in 2018 but was removed sometime prior to November 2021. According to a letter from Marten Law (Marten Law, 2022), prepared on

behalf of Star Forge, Star Forge does not know if the 1,250-ton press "AFFF system was taken by the purchaser of that press or if it was removed separately" and they had "only recently discovered that the AFFF vessels currently on-site still contained AFFF product" (Marten Law, 2022). Due to the lack of documentation associated with the removal of the 1,250-ton press AFFF system, and the acknowledgement by Marten Law that they and Star Forge were not aware that AFFF remained present on the Site before removal of the press and demolition activities (Marten Law, 2022), it is not known if the tank or associated piping were handled in a way that would protect against releases of AFFF to the Site.

A.3.10.3 Used Oil Storage Area

During an October 2015 hazardous waste facility inspection, Ecology observed a 55-gallon drum containing "AFFF Solution/Water" within the Used Oil Storage Building. The drum indicated that it contained "above 25K pump rm AFFF" with an accumulation start date of May 19, 2015.

The presence of the drum within this area suggests that this building was used for temporary storage of waste AFFF Solution/Water prior to offsite disposal. It is not clear how often this building was used for this purpose.

A.3.10.4 Evidence Provided by Facility Employees

During an interview conducted by Shannon & Wilson in April 2020, Wayne Turk, a long-time facility employee, confirmed that AFFF fire suppression systems serviced the presses and Q1/Q2/Q3 vault, and indicated that the AFFF systems were serviced annually. He stated that he was not aware of the systems ever being activated, either in response to a fire or inadvertently, and that he had not observed leaks from the systems. When asked about fires at the facility, Mr. Turk recalled a fire that occurred around 1976 or 1977. His recollection was that a large ladle had spilled some molten metal in the Melt Shop (adjacent to the Heat Shop). The molten metal was against the north wall and caused a fire on the other side of the wall in the ground floor office and second floor metal laboratory. He did not recall other significant fires at the facility, although he indicated that occasional small fires would occur when molten metal breached a furnace wall or sparks from metal processing would ignite nearby cardboard.

According to the letter from Marten Law (Marten Law, 2022), there was a discharge from the 1,250-ton press AFFF system sometime before Star Forge took ownership of the Site property in 2016. This information was documented within an affidavit from Michael Lewis, a former employee who worked at the Site between 1983 and 2019 (attached to the Marten Law 2022 letter). According to Mr. Lewis, the 1,250-ton press fire suppression

system was "…inadvertently activated by an outside contractor. The activation resulted in the discharge of a combined mixture of AFFF solution and water which filled the enclosed area of the 1,250-ton press." After the discharge, the tank was reportedly refilled with new AFFF product. The affidavit did not indicate when the discharge occurred or how the released mixture was cleaned up. Mr. Lewis indicated that the product within the 660-ton and 2,500-ton press AFFF systems was also replaced after the discharge, though it isn't clear if that changeout coincided with the refill at the 1,250-ton press AFFF tank or was completed sometime later.

A.3.10.5 Purchase and Disposal Records

According to the 2022 Marten Law letter, "the most recent purchase order for AFFF is from March 2009; the AFFF purchased at that time was from a supplier that exclusively provides non-fluorinated AFFF" (Marten Law, 2022). Marten Law also indicated that the most recent AFFF disposal occurred in 2015. Within a letter to Ecology, DH Environmental provided AFFF purchase and disposal documentation (DH Environmental, 2022b), including:

- April 2022 email communications from Denko, Inc. to DH Environmental confirming that Denko, Inc. shipped 55 gallons of their 3% AFFF foam to Jorgensen Corporation on two occasions: March 7, 2008, and March 6, 2009. Within the emails, Denko indicated that it has never used fluorocarbons within its products. The email did not mention supplying AFFF foam prior to 2008 or later than 2009.
- A 2009 purchase order for new foam solution (Denkofoam #854 3% AFFF). This 2009 purchase matches the purchase on March 6, 2009, mentioned by Denko.
- A waste manifest from September 2015 for disposal of 165 gallons of AFFF with fluorosurfactants (within three drums).
- A waste manifest from November 2015 for disposal of 55 gallons of AFFF with fluorosurfactants (within one drum). This drum likely corresponds to the drum observed by Ecology during its inspection in October 2015 (Section 1.3.3), which was labeled as containing AFFF from the 2,500-ton press AFFF tank.

DH Environmental removed the 660-ton and 2,500-ton press AFFF systems in 2022. During the removal activity, 80 gallons of AFFF product was drained from the tanks for disposal (DH Environmental, 2022a). According to the waste designation package generated by DH Environmental (DH Environmental, 2022c), samples were collected from each AFFF tank and analyzed for halogenated organic compounds (including chloride, fluoride, and bromide) and for adsorbable organic fluorine. Chloride, fluoride, and adsorbable organic fluorine were detected within both samples at concentrations of up to 270 milligrams per liter (mg/L), 57 mg/L, and 5,200 mg/L, respectively. The samples were not analyzed for PFAS. The material was disposed of as dangerous waste under the persistent criteria

(WP02) for total halogenated compounds (due to total halogenated compounds at concentrations over 100 mg/L). Based on the fluoride and adsorbable organic fluorine detections within the samples, it appears that the product remaining in the tanks at the time of disposal in 2022 contained residual PFAS.

Based on the volume of AFFF disposed of in 2022 by DH Environmental (80 gallons from two tanks), the three tanks likely contained approximately 120 gallons in total. As evidenced within the documents provided by DH Environmental, 220 gallons (four drums) of AFFF (with fluorosurfactants) were disposed of in 2015 over two pickups. AFFF purchase documentation from 2015 has not been provided. Accordingly, it is not clear what type of AFFF foam replaced the product within the AFFF tanks following the 2015 disposal.

A.3.10.6 Summary of Aqueous Film-Forming Foam Use at the Site

A timeline of the available AFFF documentation and relevant observations is summarized in Exhibit A-15.

Based on the information provided to us, the AFFF tanks found at the Site were constructed in 1982. The first evidence that AFFF fire suppression systems were operational at the Site is from 1995 (the date on the AFFF tank inspection tags). There is also evidence that the 1,250-ton press AFFF system was activated on at least one occasion. The activation purportedly resulted in a discharge of AFFF foam to the "enclosed area of the 1,250-ton press" (Marten Law, 2022). It not clear when the discharge occurred and how the discharged product was cleaned up. Other discharges were not identified by former employees.

Purchase records indicate that fluorinated-free product was purchased in 2008 and 2009, but records for product purchased before 2008 and after 2009 were not provided. The AFFF product that was removed from the 660-ton and 2,500-ton press AFFF tanks in 2022 contained detectable concentrations of fluoride and adsorbable organic fluorine, indicating that the product contained PFAS.

Though the 660-ton and 2,500-ton press AFFF tanks and their contents were disposed of in an environmentally prudent manner, the removal and management of the 1,250-ton press AFFF tank and associated piping is not documented. It is not clear if care was taken to minimize impact to the environment and a release from the tank and/or piping during the removal activity remains a possibility.

Exhibit A-15: AFFF Documentation Timeline

Year	AFFF Documentation	Source of Information
1982	AFFF tanks constructed.	Metal placards on 660-ton and 2,500-ton press AFFF tanks.
April 1995 – October 2002	AFFF tank inspections documented for April 1995 through June 1997, August and September 2000, May 2002, and August through October 2002.	Inspection tags on 660-ton and 2,500-ton press AFFF tanks.
March 2008 March 2009	Purchase of non-fluorinated AFFF product from Denko (55 gallons per purchase).	2009 purchase order and email from Denko (DH Environmental, 2022b).
September 2014 – October 2017	Annual AFFF foam tests by The Safety Team.	Annual foam test labels affixed to the 660-ton and 2,500-ton press AFFF tanks.
September 2015	Disposal of three drums of "AFFF with fluorosurfactants" (165 gallons).	Waste manifest (DH Environmental, 2022b).
October 2015	One drum of AFFF Solution/Water observed within the Hazardous Waste Storage area.	Ecology 2015 inspection report (Ecology, 2015).
November 2015	Disposal of one drum of "AFFF with fluorosurfactants" (55 gallons).	Waste manifest (DH Environmental, 2022b).
Unknown date before November 2016	Discharge of AFFF from 1,250-ton press AFFF system.	Michael Lewis affidavit (Marten Law, 2022).
September 2018	The 660-ton, 1,250-ton, and 2,500-ton press AFFF tanks observed to be present at the Site.	Shannon & Wilson walk-through.
2019	660-ton, 1,250-ton, and 2,500-ton presses auctioned and removed.	Marten Law letter (Marten Law, 2022).
Unknown date between September 2018 and November 2021	1,250-ton press AFFF system (tank and piping) removed from the Site by unknown persons.	Maten Law letter (Marten Law, 2022).
November 2021 and January 2022	660-ton and 2,500-ton press AFFF tanks observed at the Site. 1,250-ton press AFFF tank observed to have been removed.	Shannon & Wilson Site visits.
June 2022	660-ton and 2,500-ton press AFFF tanks removed from the Site. Disposal of two drums of WP02 dangerous waste (80 gallons).	DH Environmental field report (DH Environmental, 2022a and 2022c).

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Table A-1: September 2018 Facility Reconnaissance Summary Table with October 2019 through November 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Area 1 - Hollowbore Area					
Hollowbore 59/60 Lathes Cutting Oil Holding Tank Vault	Located in Area 1. Used to store hydraulic oil used in Hollowbore 59/60 Lathes.	The vault walls were 37 ft west-east and 11.5 ft north-south. The vault floor was 9 ft bgs.	The vault walls, floors, and ceiling were concrete. The vault contained a flat-walled steel tank. Jorgensen Forge employees stated the tank held hydraulic oil for the Hollowbore 59/60 Lathes.	Two manhole access covers allowed viewing of the tank and vault. The west manhole cover showed a 3-inch cap on the tank. Dirt and other debris prevented further observation through the west manhole. The east manhole showed a vertical ladder, a section of the tank sidewall, and section of the vault floor. The vault floor was covered with 3 inches of hydraulic oil in September 2018. Oil stains were observed on the vault walls from the vault floor level to 4 ft above the floor.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Hollowbore 59/60 Lathes Vault	Located in Area 1. Vault contained the cutting-oil pumping equipment for the Hollowbore 59/60 Lathes.	The vault consisted of two chambers separated by a concrete wall. The concrete wall was open in areas to allow for pipes to pass through. The floor of the west compartment was 6.5 ft bfs and walls were 13 ft west-east and 14 ft north-south. The floor of the east compartment was 6.5 ft bfs with walls 8.5 ft east-west and 14 ft north-south.	The vault had concrete floors and walls. The ceiling was a steel plate. The east compartment contained pipes, motors, and pumps for Lathe 60. The west compartment contained pipes, motors, pumps and an oil filter for Lathe 59. The west compartment also contained a steel, 240-gallon, cutting-oil tank. The vaults contained apparent sumps but no sump pumps observed. The west sump was metal-clad and the east sump was concrete. The sumps were unknown depth.	No groundwater was observed. In September 2018, about 0.5 inch of cutting oil was pooled on the floors. Cutting oil residue coated all surfaces in both compartments. The west compartment northwest corner and southwest corner had cracks (<0.1-inch width) with dried oil that had seeped out (cracks were about 2 ft bfs). The east compartment walls and floors were mostly in good condition with minimal cracking except for the east wall. The southeast corner of the east compartment had a large crack with separation of 1/8 inch. Soil was not observed in the crack. The crack extended the full depth of the vault. A 2-square-ft area at the top of the east wall was previously removed to apparently allow for three steel 2-inch pipes to pass through. The pipes were capped where they entered the vault. The pipes rested on oil-soaked soil behind the vault wall. Droplets of oil could be seen hanging on the pipes. Dried oil could be seen below the pipes on the compartment wall. The dried oil appeared to have seeped out of the opening in the wall, flowed down the wall, and dried. Jorgensen Forge employees did not have any information about the purpose of these capped pipes or when they were installed. Following equipment removal/cleaning, another crack was observed in the floor adjacent to the south wall and ran along both compartments. The crack had approximately 1/8-inch separation and was filled with crumbled concrete.	The SCER had no mention of cracks in the vault that appear to be seeping oil or oily pipes resting on soil. The SCER stated that the compartment contained sump pumps. No sump pumps were observed. Jorgensen Forge employees were not aware if sump pumps had been removed.
Hollowbore 58 Lathe Vault and Oil-Return Trench	Located in Area 1. An oil-return trench collected oil from both sides (north and south) of the Hollowbore 58 Lathe and conveyed (via gravity) to a vault. The vault contained electric motors, pumps, and a cutting-oil recycling system.	The floor of the oil-return trench was about 6 ft bfs and walls were 157 ft west-east and 11 ft north-south. The vault floor was 9 ft bfs and walls were 16 ft north-south and 49 ft east-west. The vault had a sunken area about 4 ft lower than the vault floor with walls 8 ft by 8 ft. The sunken area was near the west end of the vault.	The oil-return trench was concrete clad in metal. The vault contained motors, pumps, and a cutting-oil recycling system. The recycling system consisted of a steel open-top tank (about 35 ft long, 4 ft wide, and unknown depth), oil filters, and pumps. A cutting-oil filtration vessel was located in the northeast corner of the vault and was used to filter cutting oil from the Tacchi 2 lathe, according to Jorgensen Forge employees. A sump pump, located in the sunken area, conveyed oil to the cutting-oil tanks.	No groundwater was observed. Jorgensen Forge employees stated they had not observed groundwater infiltration into the vault. The steel oil-return trench was in good condition. The concrete floors and walls of the vault were in good condition with minor cracking. In September 2018, cutting oil was pooled on floors in the eastern half of the vault and the sunken area to about a 1-inch depth. The vault was observed in October 2019 after equipment had been removed. Areas of the metal cladding were punctured, apparently during the equipment removal process. Oil was observed between the concrete vault and metal cladding.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Frenchman 63 Lathe Vault	Located in Area 1. Vault provided maintenance access for the Frenchman 63 Lathe.	Vault floor was 5 ft bfs with an 11 ft bfs passageway running west-east along the center of the vault along the entire length of the vault. The vault walls were 28 ft west-east and 18 ft north-south. A sump was present in the passageway of unknown depth.	The vault walls and floors were concrete. The vault ceiling was steel plates. The vault contained electrical cables and gear boxes for Lathe 63. Jorgensen Forge employees stated Lathe 63 uses gear lubricants but no other oils. No sump pump was observed.	No groundwater was observed. Jorgensen Forge employees stated they had not observed groundwater in the vault. Some oil pooled on the floors (<0.5 inch) with metal chips. The concrete walls and floors of the vault were in good condition with minor cracking.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.

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Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Tacchi #2 Vault	Located in Area 1. The Tacchi #2 was a long horizontal machine. The vault consisted of a long shallow east-west-south-oriented trench.	The vault walls were 50 ft long and floor was 2 ft bfs. A metal-clad vault was present at the west end and was approximately 2 ft on each side and 2 ft deep.	The vault was observed when the equipment was removed. The vault was concrete. No obvious sump was observed. A 4.5-inch-diameter metal pipe penetrated the west wall at the north end. The purpose or contents of the pipe were unknown.	The concrete walls and floors of the vault were in good condition with minor cracking.	Added in 2020, not discussed in last SCER.
Carlton	Located in Area 1.	The vault walls were 20 ft north-south and 30 ft east-west. The vault floor was 1 ft bfs.	The vault was observed when the equipment was removed. The vault walls and floor were concrete.	A 3-ft-long seam (cold joint) was observed in the southwest corner of the vault where the sidewalls met the floor. The seam did not appear to be a seep. The vault had an apparent oil-return trench along the north boundary of the vault. The trench was about 1.5 ft bfs. The trench directed oil to a metal cylindrical vault that was visible to 6 ft bfs. The floor of the metal cylinder was covered with water and was therefore not observed. The water was apparently from rain and/or nearby maintenance.	Added in 2020, not discussed in last SCER.
Ingersoll	Located in Area 1.	The vault walls were 50 ft east-west and 40 ft north-south. The vault floor was 5 ft bfs.	The vault was observed when the equipment was removed. The vault walls and floor were concrete.	The floor was partially covered by wood and concrete debris. The visible portions of the vault appeared to be in good condition with minor cracking.	Added in 2020, not discussed in last SCER.
Tacchi Vault and Tank	Located in Area 1. The Tacchi was a long horizontal machine. The vault was observed when the equipment was removed. The vault consisted of a long shallow north-south-oriented oil-return trench connected to a deeper vault on the north end.	The oil-return trench was approximately 80 ft long and about 1 ft bfs. The north end of the vault had walls of 10 ft north-south and 15 ft east-west and floors at 10 ft bfs.	The vault was observed when the equipment was removed. The vault was concrete. No obvious sump was observed.	No penetrations were observed through the vault walls. The connection point between the walls and floor in the north end of the vault was apparently constructed as a cold joint based on the observation of a uniform seam along the perimeter of the floor. The seam was chipped in places. Rainwater with an oil sheen was present in the vault. The oil-return trench had a joint between two concrete slabs that was filled with about 1 inch of expansion joint fabric. The concrete adjacent to the fabric was stained with oil. A crack in the concrete of the oil-return trench was observed adjacent to the expansion joint fabric.	Added in 2020, not discussed in last SCER.
MAE	Located in Area 1.	The vault walls were 15 ft east-west and 85 ft north-south. The vault floor was 2 ft bfs.	The vault was observed when the equipment was removed. The vault walls and floor were concrete.	No seeps or large cracks were observed.	Added in 2020, not discussed in last SCER.
Office Building Heating Oil UST	Located in Area 1, west of the Main Office Building. The heating oil UST provided heating oil to the adjacent building.	The interior of the vault (if one existed) was not visible. The concrete pad above the UST was 15.5 ft west-east and 8 ft north-south.	The UST was constructed of steel. The vault construction (if one existed) was not observed.	Observations were limited to directly below the manhole access cover. A UST access cover was visible under manhole access cover. The UST access cover was 2 ft bgs. Some soil was visible around UST access cover. It was not clear if the UST had soil on all sides or if some soil had fallen on top and around of the UST access cover. An oil sheen was visible on the soil around the UST access cover.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Large Freight Scale	Located in Area 1.	The vault walls were 9 ft north-south and 20 ft east-west. The vault floor was 4 ft bfs.	The vault was observed when the equipment was removed. The vault walls and floor were concrete. A metal cylinder was present in the floor of the vault and extended 5 ft down to a depth of 9 ft bfs. The floor of the cylinder appeared to be resin or concrete.	No seeps or large cracks were observed.	Added in 2020, not discussed in last SCER.
Small Freight Scale	Located in Area 1.	The vault walls were 6 ft north-south and 8 ft east-west. The vault floor was 1.5 ft bfs.	The vault was observed when the equipment was removed. The vault walls and floor were concrete.	No seeps or large cracks were observed.	Added in 2020, not discussed in last SCER.
Flammable Lockers in Shipping Area	Located at six discrete locations throughout Area 1. The flammable lockers stored flammable consumable materials.	Five lockers: 6 ft tall, 3 ft wide, and 1 ft deep. One locker: 6 ft tall, 1.5 ft wide, and 1 ft deep.	The lockers were constructed of sheet metal and placed on concrete floors. The lockers stored containers of spray paint, spray adhesives, acetone, Protectsol 512 (petroleum solvent and corrosion inhibitor), petroleum lubricants, thread cutting oil, degreaser, SKL-WP2 (liquid dye penetrant), and Tectyl 894 (corrosion prevention compound).	The lockers appeared to be in good condition; however, most had heavy staining inside the lockers from apparent spills or leaks. Staining was visible on the concrete floors immediately in front of the lockers.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.

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Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Area 2 - Oil-Water Separator and Decommissioned Diesel Storage Area					
660-Ton Press Vault and Pump Room	Located in Area 2. Vault was used for maintenance access for the 660-Ton Press. No storage within the vault. The pump room was a separate, aboveground structure housing the hydraulic plant for the press. The pump room was located south adjacent to the press.	The vault walls were 15 ft north-south and 7.5 ft east-west. The vault floor was 6 ft bfs. The pump room walls were 19 ft east-west and 16 ft north-south and 1 ft bfs.	The pump room had cinderblock walls and concrete floors. The pump room contained electric motors, pumps, a steel 860-gallon hydraulic-oil tank, electrical cables, and an AFFF fire suppression system. The tank volume was calculated using a tape measure (facility SPCC plan indicates it is a 700-gallon tank). Hydraulic pipes, located in a belowground (1 ft bfs) concrete channel, connected the press to the pump room. The vault had concrete floors and walls, and steel plates for the ceiling. The vault contained hydraulic pipes connected to the press. No sump pumps observed in the pump room or press vault. Jorgensen Forge employees report that fluid buildup in the vault and pump room is pumped with a trash pump to a mobile tote.	The pump room walls appeared to be in good condition with minor cracking. In September 2018, hydraulic oil (1-inch-thick) coated the floor in the pump room preventing viewing. The vault surfaces were heavily coated in hydraulic oil and metal chips. Most of the vault floors and walls were not visible due to access restrictions and metal chips. In January 2020, the equipment within the vault and pump room had been removed. In 2021, the AFFF tank was observed to still be present on the roof of the pump room.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
1,250-Ton Press Vault and Pump Room	Located in Area 2. Vault was used for maintenance access for the 1,250-Ton Press. No storage within the vault. The pump room was a separate, aboveground structure housing the hydraulic plant for the press. The pump room was located north adjacent to the press.	The vault walls were 23 ft north-south and 18 ft east-west. The vault floor was 7 ft bfs. The sump was 8.5 ft bfs. The pump room was aboveground with walls 27 ft east-west and 17 ft north-south.	The pump room had cinderblock walls and concrete floors. The pump room contained electric motors, pumps, a steel 1,200-gallon hydraulic-oil tank (facility SPCC plan indicates it is a 1,000-gallon tank), electric cables, and an AFFF fire suppression system. Hydraulic pipes, located in a belowground (1 ft bfs) concrete channel, connected the press to the pump room. A double suction sump pump in the pump room took suction from the pump room and vault and directed the fluid (via underground pipes) to the oil-water separator settling tank located in the decommissioned oil storage area (according to Jorgensen Forge employees). The vault had concrete floors and walls, and steel plates for a ceiling. The vault contained hydraulic pipes connected to the press.	The pump room walls appeared to be in good condition with minor cracking. In September 2018, hydraulic oil (1-inch-thick) coated the floors in the pump room preventing viewing and the vault floors and walls were coated in hydraulic oil and metal chips, preventing viewing. In January 2020, the vault was observed with the equipment removed. No seep or large cracks were observed in the vault walls and floor. No groundwater was observed in the pump room or the vault.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
5,000-Ton Press Vault	Located in Area 2. Vault provided maintenance access to the press and contained the hydraulic plant.	The vault was a two-level underground structure. The floor of first level was 12 ft bfs and the floor of the second level was 35 ft bfs. The vault walls were 85 ft north-south and 38 ft west-east.	The vault had concrete floors, walls, and ceiling. The first level had hydraulic-oil pumps, hydraulic-oil pipes, and electrical cables. The second level was divided into two separate compartments (north and south). The north room had the 3,000-gallon steel hydraulic-oil tank (facility SPCC plan indicates it is a 4,000-gallon tank), hydraulic pumps, heat exchangers, circuit breakers, and a sump pump. The volume of the hydraulic-oil tank was stated on map located near the tank. The south compartment was directed under the press and contained hydraulic pipes, pistons, and a sump pump. Both sump pumps directed fluids, via and underground pipes, to the oil-water separator located in the Decommissioned Oil Storage Area (according to Jorgensen Forge employees).	The walls throughout the vault and the floors in the north compartment appeared in good condition with minor cracking. In September 2018, hydraulic oil and metal chips coated the floor of the south compartment, preventing viewing. Some hydraulic oil in the south compartment was milky and discolored, possibly due to aging or mixing with water. Jorgensen Forge employees stated that equipment in the vault was washed with water that may be the cause of the milky and discolored hydraulic oil. The former steam tunnel was observed near the ceiling of the first level along the east wall. In February 2020, the vault was observed with some of the equipment removed. The vault walls and floors were stained. No major cracks in vault walls or floors were observed.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
L and F Press Vault and Hydraulic Plant	Located in Area 2. The vault contained several steel trays that collected debris created during operation of the press. The vault was also used for maintenance access. The hydraulic plant was located on a steel-grate platform above the press.	The vault walls were 10 ft west-east and 25 ft north-south. The vault floor was 3 ft bfs.	The vault contained five metal trays that were filled with hydraulic oil and metal chips. Jorgensen Forge employees state that any residual oil or chips created during operation of the press would be collected in the trays. No sumps are connected to the vault according to Jorgensen Forge employees. An elevated metal-grate platform (10 ft above floor surface) supported a steel 700-gallon hydraulic oil tank. The tank volume was calculated using a tape measure. The tank was partially over the press and partially over a concrete floor.	In September 2018, the vault floor and walls were obscured by the metal trays. The tank appeared to be in good condition. Staining was not observed on the concrete floor under the hydraulic oil reservoir. In December 2019, the vault was observed with the equipment removed. The vault walls and floors were stained. Two penetrations were observed in the north wall. The penetrations each had a 1-inch metal pipe with an approximate 1/8-inch gap between the pipe wall and penetration. The penetrations were about 1 ft bfs and the adjacent walls were stained. No seepage was observed from the penetrations.	SCER stated that a heat exchanger for hydraulic oil existed for this equipment. No heat exchanger was observed. Jorgensen Forge employees stated they did not know of a heat exchanger or if one ever existing for this equipment.

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Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Ring Expander Vault	Located in Area 2. The vault provided maintenance access to the Ring Expander and contained the hydraulics plant.	The vault walls were 18 ft west-east and 14 ft north-south. The vault floors were 10 ft bfs.	The vault had concrete walls and floors. The ceiling was a steel plate. The vault contained hydraulic pumps, pipes, a steel 300-gallon hydraulic oil tank, grease lubrication system, and a sump pump. The sump pump directed fluids to mobile totes according to Jorgensen Forge employees.	In September 2018, 1 inch of hydraulic oil was pooled on the floors that prevented viewing. Access limitations prevented viewing of most of the vault walls. Jorgensen Forge employees stated that groundwater infiltrates the vault and is routinely pumped out into mobile totes. In January 2020, the vault was observed with equipment removed. The vault had a groundwater seep near the floor (depth of 10 ft bfs) on the east wall.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Ring Mill Vault and Coolant Storage Vault	Located in Area 2. The Ring Mill Vault contained coolant and hydraulic pipes connected to the Ring Mill. The Ring Mill Vault was also used for maintenance access to the Ring Mill. The Coolant Storage Vault was a separate, adjacent vault used to store coolant for the Ring Mill.	The Ring Mill Vault walls were 59 ft north-south and 16 ft east-west. The Coolant Storage vault walls were 12 ft east-west and 9 ft north-south and were 7 ft bfs.	The Ring Mill Vault had concrete floors and walls. The Ring Mill Vault ceiling was a steel plate. The Ring Mill Vault contained pipes and pumps for water coolant and hydraulic pipes. A Jorgensen Forge employee stated that the coolant consisted of water with an algaecide additive. The hydraulics plant for the Ring Mill was located at floor surface west adjacent to the Ring Mill. Two sump pumps were located in the Ring Mill Vault. Jorgensen Forge employees stated that the south sump pump directed fluids to mobile totes, via an aboveground flexible hose, likely due to collecting mainly oily waste. Jorgensen Forge employees stated that the north sump pump directed fluids to the coolant storage tanks via an aboveground flexible hose. The Coolant Storage Vault had concrete walls and contained two steel coolant storage tanks. When the tanks were removed, the Coolant Storage Vault was observed to have concrete floors. Two metal cylinders were observed penetrating the floor beneath each Coolant Tank. The cylinders extended 7 ft down to 14 ft bfs.	In September 2018, the Ring Mill Vault floors were covered in several inches of coolant preventing viewing of the floors. In January 2020, the Ring Mill Vault was observed after equipment had been removed. The vault walls and floors were stained. Two cracks were observed in the west and east sidewalls of the vault. The cracks were nearly mirror of each other and were 1.5 ft bfs and about 4 ft long. The cracks each had an approximately 1/2-inch separation. The cracks were stained with dried fluid and had no visual seepage.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Quench Tank 5/6 (Q5/Q6) Vault	Located in Area 2. Vault houses two quench tanks used to rapidly cool hot metal.	Q5 and Q6 were located in the same vault with walls 15 ft west-east and 8 ft north-south. The vault floor was 10 ft bfs.	The vaults had concrete walls and floor. Q5 and Q6 were steel cylindrical (6-ft-diameter)l open-top tanks. Q5 and Q6 extended 5 ft above floor surface. Tank Q6 had a CO2 fire suppression system. Jorgensen Forge employees stated that the Q5/Q6 Vault had no sump pump. Jorgensen Forge employees stated that Q5 contained water and Q6 had MARTEMP 2525. The contents appeared consistent with this statement. Two concrete vaults were adjacent to the main vault housing the quench tanks. The two adjacent vaults extended 4 ft bfs.	In September 2018, the Q5/Q6 vault had 2 ft of fluid with a black surface pooled on the floor and staining the walls up 2 ft higher. In January 2020, the vault was observed with the tanks and equipment removed. The main vault previously housing the quench tanks had a groundwater seep and a large crack in the floor along the north side. The main vault and two adjacent vaults had stained walls and floors.	Not discussed in last SCER.
Quench Tank (Q7) Vault	Located in Area 2. Vault houses one quench tank used to rapidly cool hot metal.	The vault walls were 25 ft north-south and 25 ft east-west. The Q7 Vault extended 5 ft bfs.	The vault had concrete walls and floor. Tank Q7 was a steel flat-walled open-top tank. Tank Q7 walls were 15.5 ft north-south and 15.5 ft east-west. Tank Q7 extended 6 ft above floor surface down to 5 ft bfs. The vault for Q7 had electric motors used to mechanically circulate the fluid in Q7 to more rapidly cool the metal. The vault for Q7 had a sump pump. According to Jorgensen Forge employees, the sump pump directed water to mobile totes on the floor surface. Jorgensen Forge employees stated that Q7 contained water. The contents appeared consistent with this statement.	The concrete walls and floors of the vault were in good condition with minor cracking. Tank Q7 was in good condition. Some water <0.5 inch depth was observed pooled in the Q7 Vault. Seeps or large cracks were not observed in the vault walls and floors.	Not discussed in last SCER.

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Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Quench Tank 8 (Q8) Vault	Located in Area 2. The vault contains a vertical quench tank used to cool aluminum.	The vault walls were 16 ft north-south and 16 ft east-west. The vault floor was not visible but the tank floor was 11 ft bfs. The tank walls were approximately 4 inches inside of each vault wall, except for a portion of the east wall which has a maintenance access area 10 ft north-south, 5 ft west-east, and 5 ft bfs.	The vault had concrete walls and floors. The vault top was open. The quench tank was historically filled with water (according to Jorgensen Forge employees) but was empty during the site visit in 2018. Two 1.5-ft-diameter pipes were present in the quench tank. The pipes conveys exhaust from a natural gas burner to heat the quench tank water (according to Jorgensen Forge employees). A sump pump within the vault directed fluids into the quench tank (according to Jorgensen Forge employees). When draining the tank, a flexible hose was used to direct the water to the Metro sanitary sewer system (according to Jorgensen Forge employees).	The steel tank was in good condition. The vault walls and floor were not visible due to the small clearance between the vault and tank. Water was observed pooled on the vault floor.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Outdoor Railroad Scale Vault	Located in Area 2. The vault provided maintenance access for the scale.	The vault walls were 67 ft west-east and 12 ft north-south. The vault floor was 8 ft bgs.	The vault had concrete walls and floors. The scale platform was the ceiling. The vault contained the scale load cells and a sump pump.	The vault floors and walls were in good condition with minor cracks. Separations in the weigh scale platform may allow runoff to enter the vault. No groundwater observed in the vault. The sump pump directs fluids to an aboveground flexible hose that discharges onto bare ground 60 ft west of the vault and just north of the railroad track. No staining observed in the area where the sump pump discharges.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Decommissioned Diesel Storage Area Vault	Located in Area 2 (south bank). The former AST bank was used to store diesel heating oil for use in the steam plant.	The vault extends 2 ft bfs according to Jorgensen Forge employees.	The vault had concrete floor and walls. The vault had an open top and appeared to be filled with metal chips. The AST bank was decommissioned; however, all ASTs remain in place. Vent pipes were observed. Jorgensen Forge employees stated that all ASTs were filled with sand during the decommissioning process.	The inside of the vault was not observed. No observed stains outside of the vaults.	Not discussed in last SCER.
Steam Tunnel	Located in Area 2 (extends into Area 5). The tunnel was formerly used to house a steam pipe that supplied steam to presses. The tunnel was converted to house hydraulic pipes.	The tunnel floor was 7 ft bfs. The tunnel was 4 ft wide. The tunnel extended from the AHTB west to nearly the west wall of the Heat Treat Area.	The vault walls, floor, and ceiling were concrete. Several steel pipes were observed in the tunnel. According to Jorgensen Forge employees, some of these pipes convey used hydraulic oil to the oil-water separator (west of AHTB) and to the hydraulic oil settling AST (north of the AHTB). Three partially filled canisters of petroleum lubricant were observed inside the tunnel. A sump pump was observed between the AHTB and the 1,250-Ton Press Pump House. The sump pump conveys fluids to the oil-water separator west of the AHTB (according to Jorgensen Forge employees).	The tunnel floors, walls, and ceiling were in good condition with minor cracking. Water was observed pooled in some areas in the tunnel. Petroleum oil was observed on the tunnel floor near the three canisters of lubricant (about 15 ft west of the 1,250-Ton Press Pump Room).	Not discussed in last SCER.
Oil-Water Separator (West of Aluminum Heat Treat Building)	Located in Area 2. Separates water from hydraulic oil. Jorgensen Forge employees stated that the separated water was directed to the sanitary sewer.	The Separator consisted of two adjacent connected concrete vaults with total dimensions of 9 ft west-east and 5 ft north-south. The vault floor was 6 ft bfs.	According to Jorgensen Forge employees, the vault consisted of two belowground hydraulically connected concrete chambers, each with a steel manhole access cover. The south chamber conveys water to the north chamber, which then is sent to the Metro sanitary sewer. Separated hydraulic oil is pumped out to mobile totes. Jorgensen Forge employees refer to this as the American Petroleum Institute oil-water separator. The separator receives water from air-conditioning condensation, L and F Straightening Press, and the Decommissioned Oil Storage Area Oil-Water Separator.	In September 2018, the south chamber appeared full of a gray opaque liquid. The north chamber appeared full of a brown-red opaque liquid. A 0.5-square-ft section of concrete along the north wall appeared removed for a pipe to pass through. The section was above the current water level in the chamber. We were unable to determine if soil was behind the opening due to hydraulic oil coating every surface. During January 2020, the vault was observed after being pumped dry. The vault floors were concrete are appeared crumbled and cracked.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Former Truck Scale	Located in Area 2.	The vault was 10 ft east-west and 50 ft north-south.	The vault was inactive and covered with a metal plate.	The interior of the vault was not observed.	Added in 2020, not discussed in last SCER.
Gear Box Pits (H-2, F-21, F-23, F-25, and F-35)	Located in Area 2. Each Gear Box housed a gear box used for mechanical movement of furnaces and other equipment.	Each Gear Box was typically 4 to 6 ft on each side. The floor was typically at 2 to 3 ft bfs.	The Gear Boxes had concrete walls and floors with portions clad in metal. Equipment was removed at the time of observation.	The floors and portions of the walls were typically stained. Minor cracking was observed. No seeps were observed.	Added in 2020, not discussed in last SCER.

Table A-1: September 2018 Facility Reconnaissance Summary Table with October 2019 through November 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Small Ring Mill Vault	Located in Area 2.	The vault was 7 ft long, 7 ft wide, and floors were 7 ft bfs.	The vault had concrete floors and walls. Equipment was removed at the time of observation. The vault had no obvious sump.	The vault walls and floor were stained. No major cracks or seeps were observed.	Added in 2020, not discussed in last SCER.
Area 4- Decommissioned Oil Storage Area					
Decommissioned Oil Storage Area Vault	Located in Area 4 (north bank). The former AST bank was used to store diesel heating oil for use in the steam plant.	The vault extends 2 ft bfs according to Jorgensen Forge employees.	The vault had concrete floors and walls. The AST vault had an open top and appeared to be filled with metal chips. All but one AST were decommissioned; however, all ASTs remain in place. Vent pipes were observed. Jorgensen Forge employees stated that all but one AST were filled with sand during the decommissioning process. The one AST that was not decommissioned (southernmost tank) was repurposed as a settling AST for an oil-water separator.	The only portion that was observed inside the vault was under the manhole access for the southernmost AST. The observed portion of the vault had heavy oil residue and debris. No groundwater was observed. No observed stains outside of the vault.	Not discussed in last SCER.
Oil-Water Separator (Decommissioned Oil Storage Area)	Located in Area 4. According to Jorgensen Forge employees, used hydraulic oil is pumped via underground pipes from equipment in the Forge Shop to a an oil-water settling tank, where solids settle out of the used oil. The used oil is then sent through a centrifuge to further remove contaminants. After the centrifuge, hydraulic oil is sent to the "clean" hydraulic-oil AST and the contaminants are sent to the oil-water separator which is west of the AHTB.	The settling AST is contained is a partially belowground vault (2 ft bfs). The centrifuge and "clean" hydraulic oil AST are south (adjacent) and located in a containment berm.	The vault has concrete walls and floor. The setting AST inside the vault was 15,000 gallons and formerly contained diesel heating oil (employees called it bunker oil), according to Jorgensen Forge employees. The containment berm had concrete walls and floor. The "clean" hydraulic oil AST in the containment berm was 6,000 gallons and was west adjacent to the centrifuge. The walls of the containment berm were 12.5 ft north-south and 25 ft west-east.	The containment berm walls and floors were in good condition with minor cracking. Groundwater was not observed. On the outside wall of the containment berm, a nearly continuous black band was visible from the base of the berm to a height of 0.5 ft. Jorgensen Forge employees did not know what had caused the black band. The black band appeared to be petroleum-based, but due to its uniform color and dimensions, it did not appear to be caused by a spill. The black band may be an artifact of construction of the berm. The interior of the vault was visible only directly under an access cover. The area under the access cover appeared to be coated with oil.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Waste Oil Tank Vault	Located in Area 4. The vault houses a tank used to store waste oil.	The vault walls were 8 ft north-south and 12 ft east-west. The vault floors were 6 ft bfs.	The vault had concrete floors and walls. The vault contained a steel 3,000-gallon tank (facility SPCC plan indicate that it is a 2,000-gallon tank). According to Jorgensen Forge employees, the tank was filled with waste petroleum oil from mobile totes. Small oil canisters (lubricants, fuels, and unidentified containers) were placed on top of the tank. No sump pump was observed in the vault.	The walls of the vault were in good condition. In September 2018, the floors of the vault were observed to be covered with debris, mostly paper and plastic, and oil that restricted visibility. The vault walls and tank were coated in oil. No groundwater was observed. In January 2020, the vault was observed with the tank removed. The vault floors and walls were stained up to 6 inches above the vault floor. No seeps or large cracks in the vault walls or floor were observed.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Oil House	Located in Area 1. Used to store unused petroleum products.	Walls were 24 ft north-south and 24 ft east-west.	The Oil House was a structure with cinderblock walls, concrete roof, and concrete floors. A containment berm was observed at the entrance. The concrete berm was 0.5 ft tall. Material observed in the Oil House included 55-gallon drums of: lubricants, hydraulic fluids, acetone, and gear oils.	The concrete floors and walls were in good condition with minor cracks. The concrete berm appeared damaged in two areas showing >1 inch cracks and missing sections that may allow fluids to pass from inside the containment to outside. Stains were observed on the floors in the Oil House. No stains were observed outside the entrance to the Oil House.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
H-18 Gear Box Pit	Located in Area 4. Housed a gear box used for mechanical movement of furnaces and other equipment.	The vault was rectangular in shape and about 2.5-ft long, 3-ft wide, and 4-ft bfs.	The box had concrete walls and floor with portions clad in metal. Equipment was removed at the time of observation.	The floor was stained. No seeps or cracks were observed.	Added in 2020, not discussed in last SCER.

Table A-1: September 2018 Facility Reconnaissance Summary Table with October 2019 through November 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Area 5 - Remaining Building Interior Area					
Bueltmann Bar Peeler Oil-Return Vault	Located in Area 5. The vault directed used cutting oil back to the lathe.	The vault walls were 45 ft east-west and 9 ft north-south. The vault floors were 6 ft bfs.	The vault had concrete floors and walls. The ceiling was covered with a steel plate. A steel open-top trench was located in the vault. The trench directed used cutting oil, via gravity, to the west where metal cuttings are removed via a belt filter and stored in a hopper. The cutting oil was then pumped back to the cutting section of the lathe. A sump pump was located in the vault.	The floors and walls of the vault were in good condition. No water was observed in the vault. In September 2018, oil and metal cuttings covered all surfaces in the vault.	Constructed since last SCER.
2,500-Ton Press Vault and Pump Room	Located in Area 5. Vault was used for maintenance access for the press. No storage within the vault. The pump room was a separate, aboveground structure housing the hydraulic plant for the press. The pump room was located northwest adjacent to the press.	The vault walls were 14 ft north-south and 15 ft east-west. The vault floor was 9 ft bfs. Some vault walls were clad in metal. The pump room was aboveground.	The pump room had cinderblock walls and concrete floors. The pump room contained electric motors, pumps, a steel hydraulic-oil tank, electric cables, an AFFF fire suppression system, and a sump pump. Hydraulic pipes, located in a belowground (1 ft bfs) metal-clad concrete channel, connected the press to the pump room. A sump pump in the pump room took suction from the pump room and directed the fluid (via underground pipes) to the oil-water separator settling tank located in the Decommissioned Oil Storage Area (according to Jorgensen Forge employees). The vault had concrete floors and walls, and steel plates for a ceiling. The vault contained hydraulic pipes connected to the press.	The pump room walls appeared to be in good condition with minor cracking. In September 2018, hydraulic oil (1-inch-thick) coated the floors in the pump room preventing viewing. The vault floors and walls were coated in hydraulic oil and metal chips, preventing viewing. No groundwater was observed in the pump room or the vault. An insulated pipe (possible decommissioned steam pipe) at 1 ft bfs was visible from the northeast corner of the vault. Following equipment removal/cleaning, staining was noted within the vault and pump room.	According to Jorgensen Forge employees, the press's hydraulic rams were rebuilt sometime between 2007 and 2011.
West Craven Lathe Vault	Located in Area 5. Vault provides maintenance access for the West Craven Lathe.	Vault walls were 27 ft east-west and 16 ft north-south. Vault floor was approximately 3 ft bfs.	The vault walls and floors were concrete. The vault ceiling was steel plates. The vault contained hydraulic oil pipes, electrical cable, and a sump pump. The sump pump directed fluids to a flexible hose that is used to fill a mobile tote, according to Jorgensen Forge employees.	In September 2018, several inches of hydraulic oil were pooled on the vault floor. Metal turnings covered all surfaces in the vault. The vault floor was not visible in most areas due to the oil and metal turnings. No groundwater was observed. The concrete walls of the vault were in good condition with minor cracking. Following equipment removal/cleaning, the floor appeared to be in good condition with some staining.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
East Craven Lathe Vault	Located in Area 5. Vault provides maintenance access for the East Craven Lathe.	Vault walls were 24 ft west-east and 18 ft north-south. The vault floors were 5 ft bfs with a lower portion (floor at 6.5 ft bfs) in which the hydraulic-oil reservoir was located.	The vault walls and floors were concrete. The vault ceiling was steel plates. The vault contained hydraulic-oil pipes, electrical cables, and a 50-gallon steel hydraulic-oil tank. The tank volume was calculated using a tape measure (the facility SPCC plan indicates that it is a 100-gallon tank). No sump pump was observed.	In September 2018, two (2) inches of hydraulic oil was pooled in the lower portion of the vault. Several inches of hydraulic oil were pooled in the vault floor. Metal turnings covered all surfaces in the vault. The vault floor was not visible in most areas due to the oil and metal turnings. No groundwater was observed. The concrete walls of the vault were in good condition with minor cracking. Following equipment removal/cleaning, the floor appeared to be in good condition with some staining.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Quench Tank 1/2/3 (Q1/Q2/Q3) Vault	Located in Area 5. The vault provided maintenance access for three vertical quench tanks and a vertical furnace.	The vault walls were 23 ft north-south and 32 ft east-west. The vault had three underground levels. The total depth of the vault was 30 ft bfs.	The vault had concrete floors and walls. The vault had steel plates for the ceiling. The vault contained three quench tanks (Q1, Q2, and Q3), a furnace (H20), an AFFF fire suppression system, and a sump pump. Jorgensen Forge employees stated the sump pump directs fluids to a mobile tote on the surface. Jorgensen Forge employees stated that Q1 was filled with MARTEMP 2525, Q2 was filled with a polymer fluid (the fluid that used to be in Q7), and Q3 was empty. Furnace H20 was heated with natural gas. The three quench tanks and furnace extended to the full depth of the vault. The dimensions of Q1 were 11 ft north-south and 11 ft east-west. The top of Q1 was open and flush with ground surface. The dimensions of Q2 were 10 ft west-east and 8 ft north-south. The top of Q2 was open and extended 4 ft above floor surface. The dimensions of Q3 were 8 ft north-south and 10 ft east-west. The top of Q3 was open and extended 6 ft above floor surface.	The concrete walls were in good condition with minor cracking. An oily substance, possibly MARTEMP 2525, was observed staining the west wall at 11 to 22 ft bfs. The floors of the vault had 1 ft of water pooled on the floor from an unknown source.	According to Jorgensen Forge employees, a CO_2 fire suppression system was installed.
West Grinder Pit #1	Located in Area 5.	The vault walls were 5 ft long and 7 ft wide. The vault floor was 5 ft bfs.	The vault was observed when equipment was removed. The vault had concrete walls and floor.	The vault walls and floor were severely degraded with many cracks and separations. No stains or seeps were observed.	Added in 2020, not discussed in last SCER.

Table A-1: September 2018 Facility Reconnaissance Summary Table with October 2019 through November 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Billet Grinder Rotator Vault	Located in Area 5. The vault contains two hydraulic arms used to rotate billets during the grinding process. Jorgensen Forge employees stated the vault was decommissioned in 2015.	The vault walls were 8.5 ft north-south and 20 ft east-west. The vault floor was 2 ft bfs.	The vault had concrete walls and floor. The vault top was open. Two hydraulic arms were formerly located in vault. One hydraulic arm was absent. Hydraulics were supplied to the arms from the adjacent billet grinder hydraulic plant.	The vault floors and walls were in good condition with minor cracking. A 1-ft-diameter stain was observed on the vault floor. No seeps or major cracks were observed.	Not discussed in last SCER.
West Grinder Pit #3	Located in Area 5.	The vault was cylindrical in shape with a 5 ft diameter and extending to 7.5 ft bfs.	The vault was observed when equipment was removed. The vault had concrete walls and floor.	A large separation was observed between the sidewalls and floor. No stains were observed.	Added in 2020, not discussed in last SCER.
The Planer (Kysor)	Located in Area 5.	The vault was irregular in shape and had walls that were 20 ft east-west and 50 ft north-south. The vault floor was 1 ft bfs. An east-west trench approximately bisected the vault and had a floor at 4 ft bfs.	The vault had concrete walls and floor. The vault had several metal beams inlaid and bolted into the floor. Two beams spanned the trench. Equipment was removed at the time of observation.	The walls and floors appeared to be in good condition. Some oil stains and fresh oil were visible on the center sunken section of the vault floor. Some oil had flowed out from under metal beams that were bolted to the vault floor and spanned the trench. An oil-absorbent pad was placed in this area. This is considered not to be an oil seep. The purpose of this sunken (about 5 ft bfs) section was not known.	Added in 2020, not discussed in last SCER.
Small Bullard	Located in Area 5.	The vault was irregular in shape and had walls that were 6 ft long and 3 ft wide. The vault floor was 4 ft bfs.	The vault had concrete walls and floor. Some walls were clad in metal. Equipment was removed at the time of observation.	The floor and walls were stained. No seeps or major cracks were observed.	Added in 2020, not discussed in last SCER.
Large Bullard	Located in Area 5.	The vault was irregular in shape and had walls that were 5 ft north-south and 7 ft east-west. The vault floor was 1 ft bfs.	The vault had concrete walls and floor. Equipment was removed at the time of observation.	The vault had no penetrations through walls or major cracks. A seep of hydraulic oil was observed in the northeast bottom corner of the vault.	Added in 2020, not discussed in last SCER.
Large Hypro	Located in Area 5.	The vault was irregular in shape and had walls that were 4 ft north-south and 8 ft east-west. The vault floor was 0.5 ft bfs.	The vault had concrete walls and floor. A narrow trench (2 inches wide and 6 inches deep) was along the south wall. Equipment was removed at the time of observation.	The floors of the vault were stained by oil. The trench floors were not visible due to being covered by oily water. No seeps or cracks were observed.	Added in 2020, not discussed in last SCER.
Former Underground Quench Tank	Located in Area 5. The name of this feature was assigned by SoundEarth.	The vault was approximately rectangular in shape and had walls that were 9 ft long and 6 ft wide. The vault floor was 12 ft bfs.	The vault was a metal tank with a 2 ft by 2 ft metal lid/access hatch.	The vault walls and floor near the access hatch appeared to be in good condition. No seeps or cracks were observed.	Added in 2020, not discussed in last SCER.
Gear Box Pits (F-3, F-5, F-11, F-13, F-15, F-19, H-4, and H-10)	Located in Area 5. Each Gear Box housed a Gear Box used for mechanical movement of furnaces and other equipment.	Each Gear Box was typically 4 to 6 ft on each side. The floor was typically at 2 to 3 ft bfs.	The Gear Boxes had concrete walls and floors with portions clad in metal. Equipment was removed at the time of observation.	The floors and portions of the walls were typically stained. Minor cracking was observed. No seeps were observed.	Added in 2020, not discussed in last SCER.
Billet Storage Scale	Located in Area 5.	The vault was rectangular in shape and had walls about 20 ft long and 8 ft wide. The vault floor was 4 ft bfs.	The vault had a possible sump that was clad in metal and extended to 9 ft bfs. The vault had a small square extension 2 ft into the wall that was below the adjacent slab and extended to the same depth of the main vault. The extension was 2 ft wide. Equipment was removed at the time of observation.	The vault floor and walls appeared to be in good condition. No cracks or stains were observed.	Added in 2020, not discussed in last SCER.

Table A-1: September 2018 Facility Reconnaissance Summary Table with October 2019 through November 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Electrical Trench East to West Machine Shop	Located in Area 5. The vault was apparently used to house electrical cables and had some penetrations for pipe runs.	The vault was about 300 ft east-west and 4 ft north-south. The vault floor was 3 ft bfs.	The vault had concrete walls and floor. Equipment was removed at the time of observation.	The trench had several penetrations through the concrete walls where 2-inch metal pipes penetrated. The purpose of these pipes was unknown. The penetrations appeared to be constructed by pouring the walls around the pipe penetrations. There was no observed sealant around the penetrations. The end of the pipes were open into the trench. Two of these penetrations had oil stains on the walls and floors below the penetrations. Large cracks were observed in a shallow (about 1 ft bgs) side-trench that connected to the main trench. Stains or seeps were not observed near the cracks.	Added in 2020, not discussed in last SCER.

Table A-1: September 2018 Facility Reconnaissance Summary Table with October 2019 through November 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Area 6 - Former Bethlehem Steel Facility					
Former Steam Clean Area	Located in Area 6. The area, now unused, was formerly used to steam clean equipment.	N/A	N/A	A concrete pad was observed at the site of the former steam clean area.	According to Jorgensen Forge employees, the area was cleaned, equipment was removed, and the belowground area was filled with gravel and concrete.
Former Oil-Water Separator (Steam Clean Area)	Located in Area 6. The area, now unused, was formerly used to separate oil from water originating from the steam clean area and possibly other sources.	N/A	N/A	A concrete pad was observed at the former oil-water separator.	According to Jorgensen Forge employees, the area was cleaned, equipment was removed, and the belowground area was filled with gravel and concrete.
Melt Shop Baghouse Dust Storage	Located in Area 6 at Melt Shop Bag House. Used to store dust collected by the Melt Shop Baghouse. Dust was collected directly into sealed containers for off-site disposal.	Dimensions were not measured.	Storage area was aboveground in a covered, paved area. The storage area did not have any containers of dust during the site visits. The area was being used to store refractory bricks, metal parts, and several 15-pound propane canisters.	A light coating of dust was observed on horizonal surfaces; however, the dust may have come from the outside since the storage bay was open to the outside. Minor staining was observed on the concrete floors. Runoff from this area would likely be directed to nearby stormwater drains. These stormwater drains convey water to the Jorgensen Forge stormwater treatment system (according to Jorgensen Forge employees).	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Covered Metal Chip Storage Area	Located in Area 6, east adjacent to the Melt Shop Baghouse. This feature was formerly located west of the Machine Shop Area. Used for storage of metal turnings and chips for future sale or re-use.	Dimensions were not measured.	Storage area was aboveground in a covered, paved area. The area was paved with concrete and covered with a wood-framed roof and three walls. Metals turnings and chips were observed in metal bins in the storage area.	The storage area floors and structure were in good condition. Some metal chips were observed on the concrete floor. No stains were observed on the floor. Runoff from the area would likely be directed to nearby stormwater drains. These stormwater drains convey water to the Jorgensen Forge stormwater treatment system (according to Jorgensen Forge employees).	Storage area moved from west of Machine Shop Area to east of Melt Shop Baghouse.
Former Etch House/Temporary Storage Area	Located in Areas 6 and 8. The Etch House was formerly used for metal etching operations. The Etch House was currently used to store chemicals prior to disposal.	Dimensions were not measured.	The Etch House structure was metal-framed with wood siding and concrete floors. The perimeter had a raised 0.2 ft concrete edge, the purpose of which appeared to be structural rather than as containment berm. The Etch House contained one 275-gallon tote of slurry collected during pump-out of stormwater drains, one cardboard gaylord box of used oil filters, two 55-gallon blue plastic drums of used acetone, four totes of used coolant water, and a 1-gallon bucket of oily rags.	The concrete floors were in good condition with minor cracking and some staining. No stains were observed outside of the structure.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Former Acid Pit	Located in Areas 6 and 8. The vault is now decommissioned and was formerly used to neutralize acid originating from metal etching operations.	The vault walls were 11 ft east-west and 9 ft north-south. The walls extended 0.9 ft above ground surface. The depth of the vault could not be observed. The vault top was open.	The vault had concrete walls. The composition of the vault floor could not be observed and Jorgensen Forge employees did not know. The vault was filled with gravel, concrete blocks, and scrap metal.	No stains was observed on surrounding pavement.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Area 7 - Former Metals Storage Area					

Table A-1: September 2018 Facility Reconnaissance Summary Table with October 2019 through November 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Arc Furnace Vault	Located in Area 7. The feature formerly housed two large arc furnaces used to melt metal. The arc furnaces were at the west and east end of the vault partially above surface. Several belowground rooms were beneath the furnaces and farther to the sides. These rooms housed supporting equipment for operation of the furnaces. The area between the furnaces was the Tipping Pit which was used to pour molten metal from the furnaces into a mobile ladle. The vault provided space for the arc furnaces to tip over (to discharge molten metal contents) and house equipment.	The vault walls were 24 ft north-south and 84 ft west-east. The vault floor was 14 ft bgs.	The vault had concrete floors and walls. The vault contained two electric-arc furnaces, hydraulic pumps, pipes, two 450-gallon hydraulic tanks (listed as 500-gallon tanks with facility SPCC plan), and electric motors to position the electrodes. A floor drain was observed next to each hydraulic oil tank. Jorgensen Forge employees stated that the floor drains were directed to the cable vaults. The cable vaults (one for each furnace) were the lowest areas in the Arc Furnace Vault. The cable vaults contained electric motors used to position electrodes. Jorgensen Forge employees stated that a trash pump or vacuum truck was used to pump out the cable vaults.	The vault floors and walls were in good condition with minor cracking. Hydraulic oil stains were observed on floor surfaces in the vaults. During the September 2018 observation. groundwater was observed pooled in the cable vaults at 0.5-ft depth. Jorgensen Forge employees stated that groundwater infiltrates the vaults. In January 2020, a groundwater seep was observed at 10 ft bfs in the Tipping Pit.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
AOD Tapping Vault	Located in Area 7. The vault provided space for the AOD furnace to tip over (to discharge molten contents).	The vault walls were 36 ft north-south and 17 ft east-west. The vault floor was 18 ft bfs.	The vault had concrete walls and floors. The vault had an open top. The vault was nearly empty except for AOD furnace which hangs above. No sump pump was observed.	The vault walls were in good condition with minor cracking. In September 2018, dirt and metal scraps preventing viewing the vault floor. No groundwater was observed. In January 2020, the vault was observed with equipment removed. Some splashed metal remained on the walls and floor. The visible walls and floor appeared to be in good condition. No groundwater was observed.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Vacuum-Degassing Vaults	Located in Area 7. The vaults contained the vacuum-degassing vessels.	The vacuum-degassing vaults consisted of two adjacent vaults with the east vault being larger. The walls of the east vault were 37 ft west-east and 20 ft north-south. The floor of the east vault was 17 ft bgs. The walls of the west pit were 20 ft north-south and 17.5 ft west-east. The floor of the west vault was 12 ft bgs The walls of both vaults extended 1 ft above ground surface.	The vaults had concrete walls and floors. The vaults had open tops. The vaults contained the vacuum-degassing vessels and piping. The east vault contained a sump pump. Jorgensen Forge employees stated that the sump pumps directs fluids to the Jorgensen Forge stormwater treatment plant.	The vault walls were in good condition with minor cracking. A thick layer of dust and debris was observed coating all surfaces and prevented viewing the floors. The sump pump was audibly observed to turn on about every 10 minutes. Jorgensen Forge employees said that groundwater infiltrates the vault. In January 2020, the vaults were observed to have a groundwater seep.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Ingot Mold Vaults	Located in Area 7. The vaults were used to store large steel ingot molds. The ingot molds were connected together to form a larger mold in which molten metal would be poured and allowed to cool.	The Ingot Mold vaults consisted of two separate vaults (one north and one south) that had the same uses. The floors of both vaults were 8 ft bgs. The walls of both vaults extended 1 ft above ground surface.	The vaults had concrete floors and walls. The vaults had open tops. Large steel ingot molds were stored in both vaults.	The north vault had cracks throughout the floor. The south vault had cracked walls and floors throughout. No obvious seeps were observed.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.

Table A-1: September 2018 Facility Reconnaissance Summary Table with October 2019 through November 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Soaking Furnace Vault	Located in Area 7. The furnace was used to slowly cool large metal pieces.	The vault floor was 10 ft bgs.	The vault walls and floor were concrete. The vault contained a natural-gas-heated furnace. The roof of the furnace was track-mounted and moves horizontally to open the furnace.	Stains and cracks were observed on the vault floor and walls. No seeps were observed.	Not discussed in last SCER.
AOD Scale Vault	Located in Area 7. The vault provided maintenance access for the scale components.	The vault walls were 12 ft north-south and 12 ft east-west. The vault floor was 7 ft bfs.	The vault had concrete floors and walls. The weigh scale platform composed the ceiling. The vault contained the scale load cells and a sump pump. Jorgensen Forge employees stated that the sump pump had not worked for as long as they could remember and they did not know the flow path from the sump pump. Jorgensen Forge employees stated that the vault is now pumped with a trash pump to a mobile tote.	In September 2018, groundwater and debris were observed in the vault. The vault floor and walls were in good condition with minor cracking. The vault was full of water and had to be pumped before entering. Dirt and metal scraps were observed in the vault. A 1-inch gap between the weigh scale platform and the floor surface was observed. This gap may allow runoff and debris to enter the vault. In January 2020, the vault was observed when equipment and debris removed. The vault walls and floor appeared to be in good condition with minor cracking.	None observed during facility reconnaissance or reported by Jorgensen Forge employees.
Electrical Trench North to South Melt Shop	Located in Area 7. Apparently used to house electrical cable.	The trench was 3 ft wide and floors were 3 ft bfs.	The vault walls and floor were concrete. The vault was observed when equipment were removed.	No seeps or large cracks were observed.	Added in 2020, not discussed in last SCER.
Outdoor Scrap Metal Scale Vault	Located in Area 7. The vault provided maintenance access for the scale.	The vault walls were 15 ft north-south and 9 ft west-east. The vault floor was 6.5 ft bgs.	The vault had concrete floors and walls. The ceiling was a steel plate. The vault contained a sump pump and load cells for the scale. Jorgensen Forge employees stated that the sump pump was decommissioned and left in place.	The vault floor and walls were in good condition with minor cracks. The vault floor had metal debris, dirt, and a petroleum odor. Separations in the weigh scale platform may allow runoff to enter the vault. Jorgensen Forge employees stated that fluids that collect in the vault are pumped out using a trash pump, and discharged onto bare ground near the scale. No staining observed on the ground near the scale. The west sidewall had a 4 ft long crack extending from surface to 4 ft bfs.	The SCER stated that no sump pump existed. A sump pump was observed this the 2018 site visit. Jorgensen Forge employees were not aware of a sump pump being installed in the vault.
Former Unpaved Metals Storage Areas (Former Melt Steel Slag and Mill Scale AOD/EAF Slag Storage Area)	Located in Area 7, in the southwest corner of the property. Formerly used to store metal byproducts of the forging process. The area is now used to store concrete blocks and large metal frames.	Dimensions were not measured.	The area was aboveground and uncovered. The surface area was gravel and dirt. Concrete blocks and metal frames were observed.	Runoff was observed to pool on the ground. Some metal swarf and mill scale were observed on the surface throughout the area. No stains were observed.	Removed since last SCER.
Cooling Tower Pit South Side Melt Shop	Located in Area 7.	The walls were 30 ft west-east and 8 ft north-south. The vault floor was 1 ft bfs.	The vault had concrete walls and floor. The vault had a catch basin and possible sump installed in the floor. The catch basin and sump were not observed since they were filled with rainwater. The vault was observed when the cooling tower equipment was removed.	The vault had no obvious seeps or large cracks.	Added in 2020, not discussed in last SCER.
F-1 Gear Box Pit	Located in Area 7. Apparently used to house a Gear Box used for mechanical movements of a furnace.	The vault was irregular in shape and about 6 ft long, 6 ft wide, and 2 ft deep.	The vault had concrete walls and floor. Equipment was removed at the time of observation.	The vault had no obvious seeps or large cracks.	Added in 2020, not discussed in last SCER.

Table A-1: September 2018 Facility Reconnaissance Summary Table with October 2019 through November 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Former Melt Shop Area	Located in Area 7. This area consisted of storage in the Melt Shop area. Vaults and equipment in the area are discussed separately. The Melt Shop Area was used to melt metal to create ingots. Most of the equipment has been decommissioned but remains in place.	Dimensions were not measured.	The Melt Shop floors were concrete except for the area between the Ingot Mold vaults and farther east to the east extent of the Soaking Furnace Vault. The Melt Shop contained numerous pieces of equipment. The west end of the Melt Shop (concrete floors) was used the store metal turnings, metal equipment, and lumber.	The concrete floors has cracks (0.5 inch wide) in some places. Dust and metal slag debris were observed on most surfaces. Stains were observed on concrete floors. No stains were observed on the dirt floors.	The Melt Shop was decommissioned since last SCER.

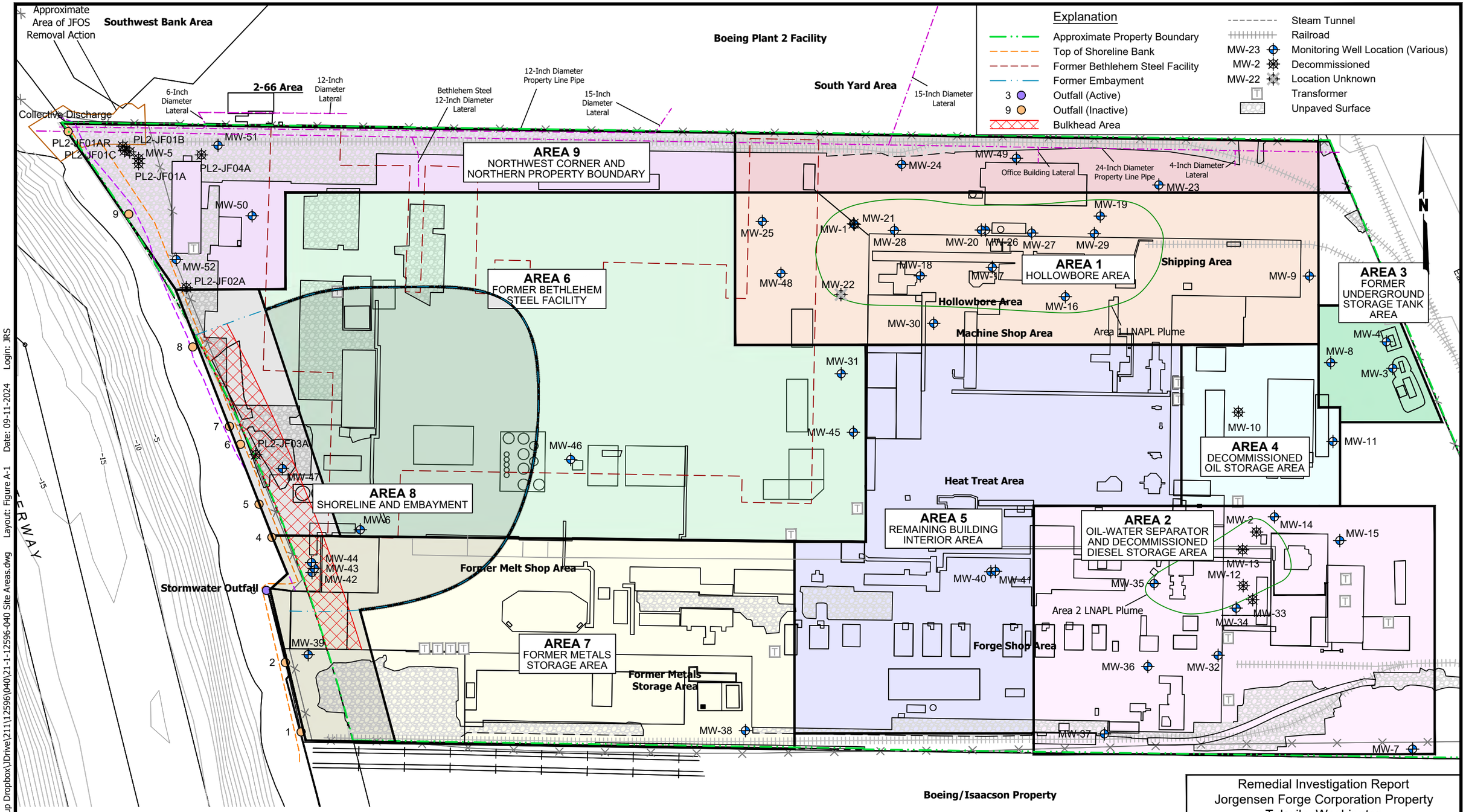
Table A-1: September 2018 Facility Reconnaissance Summary Table with October 2019 through November 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
Area 8 - Shoreline and Embayment					
Melt Shop Baghouse Cooling Tower Vaults	Located in Area 8. Two adjacent vaults used to house pumps for the cooling towers. The pumps recirculated water throughout the cooling tower. The cooling towers host at least four concrete vaults filled with water, but unknown purpose.	West pump room: floor was 8 ft bfs, wall extended 1 ft above ground and were 15 ft north-south and 11 ft west-east. East pump room: floor was 8 ft bfs, walls extended 1 ft above ground and were 11 ft north-south and 11 ft east-west. The four vaults filled with water had the water surface at 5 ft bgs and had 5-ft-wide walls.	The pump room vaults had concrete floors and walls. The pump rooms each had recirculation pumps, pipes, and a sump pump. According to Jorgensen Forge employees, the sump pumps directed water onto the ground surface (asphalt) where runoff is directed into the stormwater drains. The stormwater drains directed runoff to the Jorgensen Forge stormwater treatment plant (according to Jorgensen Forge employees).	The pump room vault floors and walls were in good condition with minor cracking. Some areas of the pump room vault floors were damp, cause unknown. Corrosion was observed on equipment in the pump room vaults that may indicate that water had pooled in the vaults.	Not discussed in last SCER.
Former Swarf Storage Area	Located in Area 8, west of the Melt Shop Bag House. The area was formerly used to store swarf. The area is now vacant and unused.	N/A	No equipment was observed. The area was partially paved. The remaining surface area was gravel.	Runoff would likely pool in the area and infiltrate the gravel or evaporate.	Removed since last SCER.
Area 9 - Northwest Corner and Northern Property Boundary					
Diesel Fueling and Used Oil Storage (Former Waste Chemical Storage) Building	Located in Area 9. Used to store petroleum products and a diesel AST that was used to fuel mobile equipment.	The walls were 25 ft east-west and 30 ft north-south.	The Diesel House was aboveground. The Diesel House had concrete floors and covered with a metal roof and siding. The Diesel House had a concrete containment berm around the inside perimeter about 1 ft high. The containment berm had 0.2-ft-thick wood planks installed on top. The containment area contained a 300-gallon diesel AST, 55-gallon drums of CH2O #6267 Boiler Treatment chemical, 55-gallon drums of cutting fluids (mostly Blue Cool brand), an aerosol can spray waste 55-gallon drum, and small canisters of petroleum products.	The concrete floors and berm were in good condition with minor cracking. The concrete floors, concrete beam, and wooden plank top appeared stained in areas. Outside of the Diesel House, three 1-square-ft circular areas of stained bare gravel were observed outside the west wall. One stain was immediately against the west wall. The staining inside the building did not appear to align with the location of the external staining. Jorgensen Forge employees stated that a generator had been temporarily stored in the location of the external staining and it might be the cause. No liquid were observed pooled in the Diesel House.	Jorgensen Forge employees stated that the diesel dispenser was upgraded from a hand pump to a motor in the past few years. The dispenser was observed inside the concrete containment.

NOTES:

All dimensions, capacities, and other measurements are approximate and obtain using a tape measure, unless otherwise stated.

AFFF = aqueous film forming foam; AHTB = Aluminum Heat Treat Building; AOD = argon-oxygen decarbonization; AST = aboveground storage tank; bfs = below floor surface; bgs = below ground surface; CO2 = carbon dioxide; EAF = Electric Arc Furnace; ft = foot or feet; N/A = not applicable; SCER = Source Control Evaluation Report; SPCC = spill prevention control and countermeasure; UST = underground storage tank



NOTE

Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017, and *ACAD-J1743.05 09-01-2020.dwg* dated August 12, 2020, prepared by True North.

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Tukwila, Washington

SITE AREAS

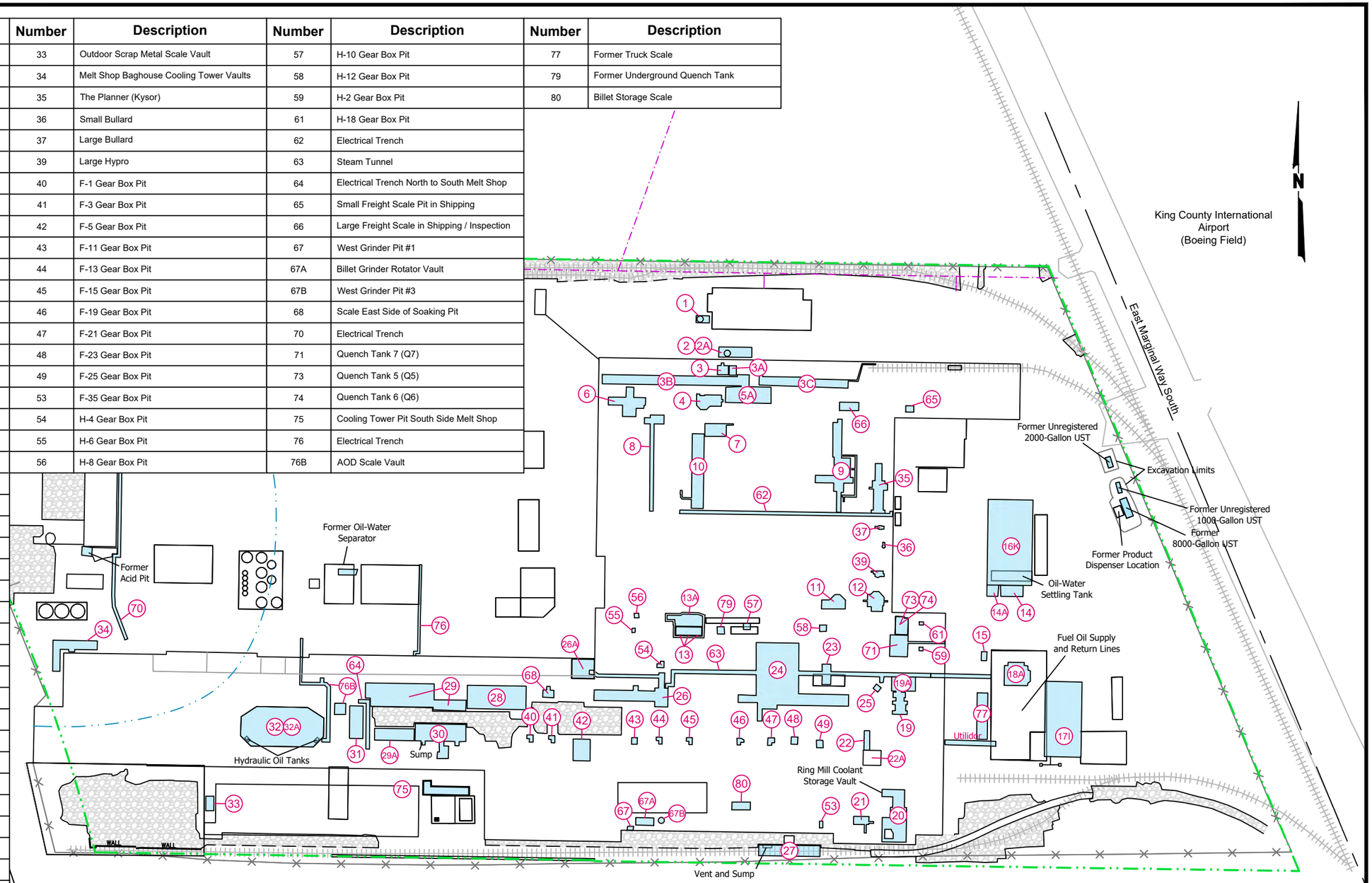
September 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. A-1

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Number	Description	Number	Description	Number	Description	Number	Description
1	Office Building Heating Oil UST	33	Outdoor Scrap Metal Scale Vault	57	H-10 Gear Box Pit	77	Former Truck Scale
2	Hollowbore 59/60 Lathes Cutting Oil Holding Tank	34	Melt Shop Baghouse Cooling Tower Vaults	58	H-12 Gear Box Pit	79	Former Underground Quench Tank
2A	Hollowbore 59/60 Lathes Cutting Oil Holding Tank Vault	35	The Planner (Kysor)	59	H-2 Gear Box Pit	80	Billet Storage Scale
3	Hollowbore 59 Lathe Vault	36	Small Bullard	61	H-18 Gear Box Pit		
3A	Hollowbore 60 Lathe Vault	37	Large Bullard	62	Electrical Trench		
3B	Hollowbore 58 Oil-Return Trench	39	Large Hypro	63	Steam Tunnel		
3C	Tacchi #2	40	F-1 Gear Box Pit	64	Electrical Trench North to South Melt Shop		
4	Frenchman 63 Lathe Vault	41	F-3 Gear Box Pit	65	Small Freight Scale Pit in Shipping		
5A	Hollowbore 58 Lathe Vault	42	F-5 Gear Box Pit	66	Large Freight Scale in Shipping / Inspection		
6	Ingersoll	43	F-11 Gear Box Pit	67	West Grinder Pit #1		
7	Carlton	44	F-13 Gear Box Pit	67A	Billet Grinder Rotator Vault		
8	Tacchi	45	F-15 Gear Box Pit	67B	West Grinder Pit #3		
9	Bueltmann Bar Peeler Oil-Return Vault	46	F-19 Gear Box Pit	68	Scale East Side of Soaking Pit		
10	MAE	47	F-21 Gear Box Pit	70	Electrical Trench		
11	West Craven Lathe Vault	48	F-23 Gear Box Pit	71	Quench Tank 7 (Q7)		
12	East Craven Lathe Vault	49	F-25 Gear Box Pit	73	Quench Tank 5 (Q5)		
13	Quench Tanks 1, 2, and 3 (Q1, Q2, and Q3)	53	F-35 Gear Box Pit	74	Quench Tank 6 (Q6)		
13A	Quench Tanks 1, 2, and 3 (Q1, Q2, and Q3) Vault	54	H-4 Gear Box Pit	75	Cooling Tower Pit South Side Melt Shop		
14	Oil-Water Separator (Decommissioned Oil Storage Area)	55	H-6 Gear Box Pit	76	Electrical Trench		
14A	Waste Oil Tank Vault	56	H-8 Gear Box Pit	76B	AOD Scale Vault		
15	Oil-Water Separator (West of Aluminum Heat Treat Building)						
16K	Decommissioned Oil Storage Area Vault						
17I	Decommissioned Diesel Storage Area Vault						
18A	Quench Tank 8 (Q8) Vault						
19	1,250-Ton Press						
19A	1,250-Ton Press Pump Room						
20	Ring Mill Vault and Coolant Storage Vault						
21	Ring Expander Vault						
22	660-Ton Press						
22A	660-Ton Press Pump Room						
23	L and F Press Vault and Hydraulic Plant						
24	5,000-Ton Press Vault						
25	Small Ring Mill						
26	2,500-Ton Press Vault						
26A	2,500-Ton Press Pump Room						
27	Outdoor Railroad Scale Vault						
28	Soaking Furnace Vault						
29, 29A	Ingot Mold Vaults						
30	Vacuum-Degassing Vaults						
31	AOD Tapping Vault						
32, 32A	Arc Furnace Vault						



NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017, *01012802-006.dwg*, prepared by Achor Environmental, LLC and Farallon Consulting, and *ACAD-J1743.05 09-01-2020.dwg* dated August 12, 2020, prepared by True North. Property Boundary from client file, *11078 Topo E-MAIL.dwg*, prepared by Anchor QEA, LLC., Dated Jan 24, 2012.
2. Numbering System for Below Ground Features Obtained from SoundEarth.

Explanation

- (1) Table Designation for Below Ground Features
- Approximate Property Boundary
- Former Embayment
- Approximate Excavation Extents
- Railroad
- Fence
- Below Ground Feature
- Unpaved Surface

0 120 240

Scale in Feet

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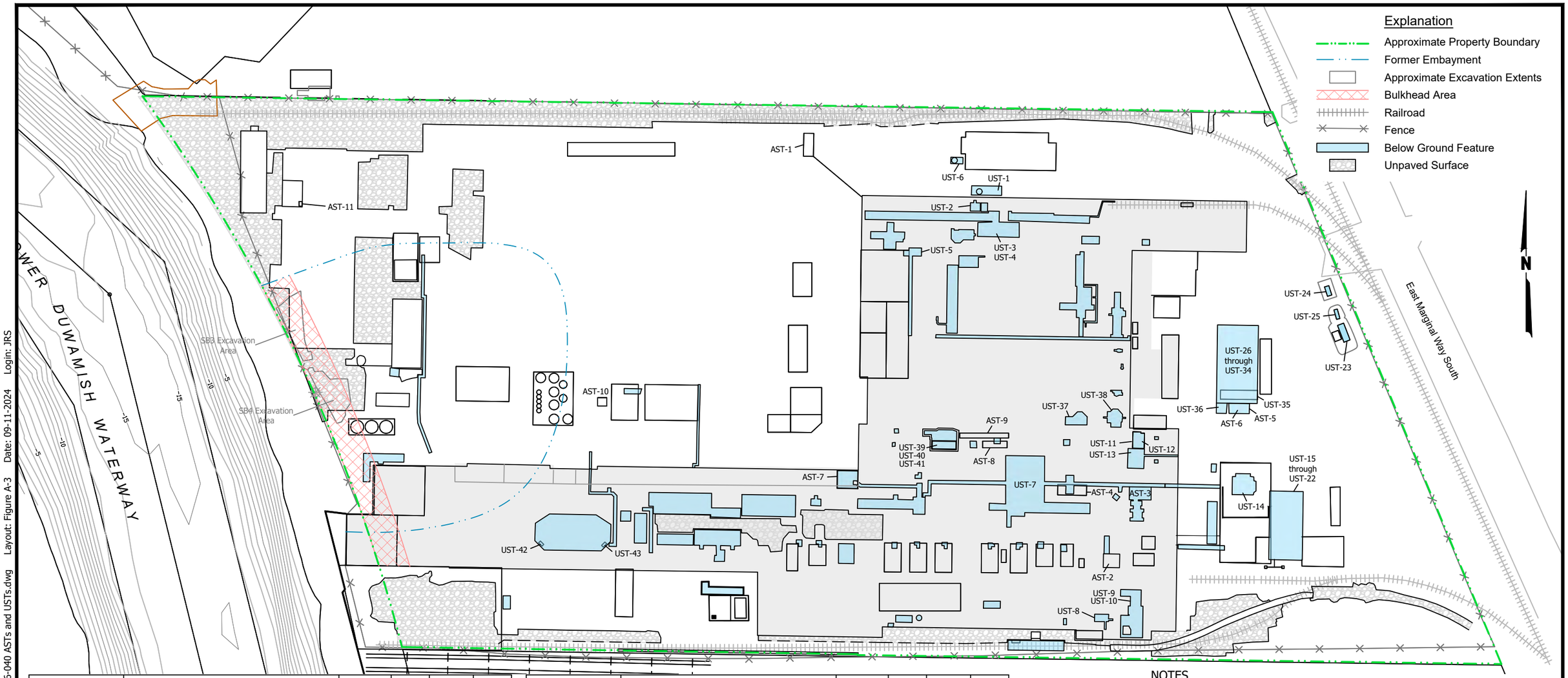
BELOW GROUND FEATURES

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. A-2**

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Tank ID	Description	Containment	Capacity (Gallons)	Regulated[2]	Closure Status
UST-1	Hollowbore 59/60 Lathes Cutting Oil Holding Tank	V	11,000	N	R
UST-2	Hollowbore 59/60 Horizontal Lathes Intermediate Cutting Oil Tank	V	240	N	R
UST-3	Hollowbore 58 Horizontal Lathe Clean Cutting Oil Tank	V	5,500	U	R
UST-4	Hollowbore 58 Horizontal Lathe Dirty Cutting Oil Tank	V	5,000	U	R
UST-5	Tacchi Cutting Oil Tank	V	2,500	U	R
UST-6	Office Building Heating Oil UST	G	600	N	U
UST-7	5,000-Ton Press Hydraulic Oil Tank	V	4,000	N	R
UST-8	Ring Expander Hydraulic Oil Tank	V	300	N	R
UST-9	Ring Mill Coolant Tank	V	500	U	R
UST-10	Ring Mill Coolant Tank	V	500	U	R
UST-11	Quench Tank 5 (Q5)	V	-	N	R
UST-12	Quench Tank 6 (Q6)	V	5,000	N	R
UST-13	Quench Tank 7 (Q7)	V	-	N	R
UST-14	Quench Tank 8 (Q8)	V	-	N	R
UST-15 through UST-22	Decommissioned Diesel Storage Area Tanks (8 tanks)	V	96,000	Y	U
UST-23	Former Regulated Gasoline UST	G	8,000	Y	R
UST-24	Former Unregulated UST	G	2,000	U	R
UST-25	Former Unregulated UST	G	1,000	U	R
UST-26 through UST-35	Decommissioned Oil Storage Area Tanks (10 tanks)	V	150,000	Y	U

Tank ID	Description	Containment	Capacity (Gallons)	Regulated[2]	Closure Status
UST-36	Waste Oil Tank	V	2,000	Y	R
UST-37	West Craven Lathe	V	30	N	R
UST-38	East Craven Lathe	V	100	N	R
UST-39	Quench Tank 1 (Q1)	V	13,000	U	R
UST-40	Quench Tank 2 (Q2)	V	13,000	U	R
UST-41	Quench Tank 3 (Q3)	V	-	U	R
UST-42	Arc Furnace Hydraulic Oil Tank	V	500	N	U
UST-43	Arc Furnace Hydraulic Oil Tank	V	500	N	U
AST-1	Former Cutting Oil Supply Tank	C	4,000	N	R
AST-2	660-Ton Press Hydraulic Oil Tank	C	700	N	R
AST-3	1,250-Ton Press Hydraulic Oil Tank	C	1,000	N	R
AST-4	L and F Press Hydraulic Oil Tank	C	700	N	R
AST-5	Used Oil Centrifuge	C	1,200	N	R
AST-6	Clean Hydraulic Oil Tank	C	6,000	N	R
AST-7	2,500 Ton Press Hydraulic Oil Tank	C	1,500	N	R
AST-8	Quench Tank 4 (Q4)	C	-	N	R
AST-9	Quench Tank 9 (Q9)	C	-	N	R
AST-10	Former Gasoline AST	C	300	N	R
AST-11	Diesel Fuel Tank	C	300	N	R

NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017, *01012802-006.dwg*, prepared by Achor Environmental, LLC and Farallon Consulting. Property Boundary from client file, *11078 Topo E-MAIL.dwg*, prepared by Anchor QEA, LLC., Dated Jan 24, 2012, and *ACAD-J1743.05 09-01-2020.dwg* dated August 12, 2020, prepared by True North.
2. Regulated under Washington Administrative Code (WAC) 173-360A: Underground Storage Tank Regulations.

0 120 240

Scale in Feet

ABBREVIATIONS

AST = Aboveground Storage Tank
UST = Underground Storage Tank
V = Within Vault
C = Within Containment
G = Directly within Soil
- = Unknown
R = Removed
U = Unknown
N = No
Y = Yes

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ASTs AND USTs

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SHANNON & WILSON, INC. FIG. A-3

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APPENDIX B: PREVIOUS ENVIRONMENTAL INVESTIGATIONS AND REMEDIAL ACTIONS

Appendix B

Previous Environmental Investigations and Remedial Actions

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Attachment

Attachment B-1: Excerpts from Boeing Plant 2 Reports

APPENDIX B: PREVIOUS ENVIRONMENTAL INVESTIGATIONS AND REMEDIAL ACTIONS

This appendix includes a summary of environmental investigations and remedial actions conducted at the Site prior to this Remedial Investigation (RI). This appendix also includes a brief summary of Clean Closure activities completed by Star Forge as part of the early demolition work completed prior to the RI.

B.1 PREVIOUS INVESTIGATIONS

Investigation locations completed across the Site are shown in Figures B-1 through B-8. Table B-1 includes a summary of investigation locations completed at the Site. Available results from the investigations discussed within this section are presented within Tables B-2 through B-18.

B.1.1 1990 Preliminary Site Assessment

In 1990, Dames & Moore completed a preliminary Site assessment (Dames & Moore, 1990a) of the Site. The assessment included a summary of available information regarding physiography and geologic and hydrogeologic setting, as well as a site reconnaissance survey conducted on February 8, 1990. The Site reconnaissance included visual observations of existing conditions, types of land use, and the nature of neighboring property development. The assessment identified potential environmental concerns, including:

- Unknown integrity of a heating oil underground storage tank (UST) located west of the office building (Area 1).
- Unknown integrity of the operating oil UST and vault, located outside to the north of the main building (Area 1).
- Unknown integrity of the former acid house neutralization pit and surrounding soil conditions (Area 6/Area 8).
- Unknown surface soil/dust quality near the slag storage area located in the Former Metals Storage Area at the southwest corner of the Site, south of the Melt Bag House, and throughout the main building.
- Unknown integrity of the storage tanks (in use at the time of the assessment) located within the Decommissioned Oil Storage Area (Area 4) and the Decommissioned Diesel Storage Area (Area 2).
- Unknown soil conditions near the oil-water separator located west of the Aluminum Heat Treat Building (AHTB) (Area 2).
- Unknown soil conditions near the gasoline UST and two unknown USTs located near the Site entrance (Area 3).

Dames & Moore recommended a limited Site characterization to investigate the potential environmental concerns.

B.1.2 1990 Limited Site Characterization

Following the preliminary Site assessment, Dames & Moore completed a limited Site characterization (Dames & Moore, 1990b). The evaluation included the collection and laboratory analysis of samples for select parameters based on the nature of the potential environmental concern. Activities included the following:

- Collection of 11 surface soil/solids samples (5-1, 9-1 through 9-4, 16-1, 16-2, and 17-1 through 17-4) in locations where surface stains or accumulated dusts or debris were observed.
- Advancement of 16 soil borings (DM-B-1 to DM-B-16) to total depths ranging from 10 to 15 feet below ground surface (bgs) near liquid containment areas and underground pits and tanks.
- Collection of two shallow soil samples (DM-SB-1 and DM-SB-2) from a drum storage area near the northwest corner of the Property.
- Installation and sampling of three groundwater monitoring wells (MW-1, MW-2, and MW-3) to characterize groundwater quality. The designation of these wells was revised during later investigations to MW-5, MW-6, and MW-7 and will be referred to by the revised nomenclature for the remainder of this work plan.
- Collection and laboratory analysis of stormwater samples from four stormwater outfalls (E-1 to E-4) to assist with evaluation of stormwater compliance with the National Pollutant Discharge Elimination System (NPDES) permit.

The investigation identified the following:

- Elevated concentrations of total petroleum hydrocarbons (TPH) in soil near the Hollowbore 59/60 hydraulic oil UST and vault (DM-B-4 and DM-B-5).
- Elevated concentrations of TPH in soil near the oil-water separator just west of the AHTB (DM-B-12).
- Benzene, toluene, ethylbenzene and xylenes (BTEX) detected in soil near the three USTs located near the main entrance (DM-B-6).
- Low pH values in subsurface soil downgradient from the former acid house neutralization pit (DM-B-15 and DM-B-16).
- Elevated concentrations of chromium above the then-current Model Toxics Control Act (MTCA) Method A cleanup level (CUL) in several surface soil samples.
- Visible sheen discharging from what is now called Outfall 003.

- Elevated concentrations of several chlorinated and non-chlorinated volatile organic compounds (VOCs) in groundwater along the northwestern corner of the Site (MW-5), including concentrations of benzene exceeding the MTCA Method A CUL.
- Elevated concentrations of cadmium, chromium, and arsenic in groundwater exceeding the then-current MTCA Method A CULs in MW-6 and MW-7.

B.1.3 Tank Tightness Tests

Between December 1990 and January 1991, SECOR[1] conducted tightness testing of 19 petroleum product storage tanks on the Site. The tested tanks include 10 tanks located within the Decommissioned Oil Storage Area, 8 tanks within the Decommissioned Diesel Storage Area, and a heating oil UST located west of the office building.

The tank testing indicated that all tanks were tight except for Tanks 1, 3, and 6 (from north to south) in the Decommissioned Oil Storage Area. Tanks 1 and 3 could not be tested because the fluid level would not stabilize, and Tank 6 failed the tightness testing. In April 1991, Tanks 1, 3, and 6 were closed by filling with an inert material (Anchor Environmental, LLC and Farallon Consulting, LLC, 2008). Prior to filling the tanks, two holes were cut in each tank and the backfill material was sampled. The analytical results for these samples detected concentrations of TPH exceeding the MTCA Method A CULs in the backfill surrounding Tanks 1 and 3. Results of the tank inspection showed the tanks to be in good condition, and no obvious holes or leaks were observed. Reportedly, the tanks were placed on the concrete floor of a former building, and therefore are essentially in a vault.

B.1.4 Area 1 – Hollowbore Area Investigations

The 1990 limited Site characterization (Dames & Moore, 1990b) identified the presence of TPH as oil (TPH-O) in soil in Area 1.

SECOR International, Inc. (SECOR) (known at the time as SEACOR), completed investigations at Area 1 in late 1990 and early 1991 to assess the lateral and vertical extent of petroleum-impacted soils outside of the main building (SEACOR, 1993b). Activities included the following:

- Drilling and collection of soil samples from five borings (B-3 through B-7) near the cutting oil holding UST.
- Five hand-auger borings (JSA-HA1, HA1A, HA1B, HA2, and HA3) were completed in the vicinity of the cutting oil holding UST.

[1] At some point, SEACOR changes its name to SECOR. When discussed within this document, the entity known currently as SECOR and formerly as SEACOR is referred to as "SECOR." When documents are cited, however, the entity name which appeared on the document is used.

- Two hand-auger borings (HA5 and HA6) were completed to the north of the main building and office building.
- Installation, sampling, and subsequent abandonment of groundwater monitoring well MW-1 near the northwest corner of the main building.

SECOR subsequently completed a focused RI/Feasibility Study (FS) in Area 1 to further define the nature and extent of contamination and to support the selection of remedial alternatives (SEACOR, 1993b). Activities included the following:

- Installation and collection of soil and groundwater samplings from ten wells (MW-16 through MW-25).
- Drilling and collection of soil samples from eight borings (OB2 through OB6 and IB1 through IB3).
- Collection of light nonaqueous phase liquid (LNAPL) samples from wells MW-16, MW-19, MW-20, and MW-21.
- LNAPL pumping tests were completed at wells MW-16, MW-19, MW-20, and MW-21.

Area 1 investigation locations are shown in Figure B-2. The RI/FS identified cutting oil in subsurface soil, dissolved-phase TPH in groundwater, and LNAPL in groundwater. LNAPL was observed at thicknesses ranging from 2.27 to 6.15 feet. The LNAPL pumping tests indicated a significantly higher recovery rate in wells MW-19 and MW-20 than in wells MW-16 and MW-21.

The presence of the oil was attributed to a number of short-duration larger episodic releases (e.g., oil supply line breakage in the Rhiensthal-Wagner 58 lathe) and longer duration, smaller releases. Soil impacts within the shallow to intermediate depth ranges (0 to 9 feet) were limited to inside and immediately adjacent to the main building. Deeper soil impacts were observed to be more widespread, mirroring the extent (at the time of investigation) of the LNAPL plume (SEACOR, 1993b).

B.1.5 Area 2 – Oil-Water Separator and Decommissioned Diesel Storage Areas

The 1990 Dames & Moore limited Site characterization (Dames & Moore, 1990b) identified TPH-O in Area 2.

B.1.5.1 Oil-Water Separator Area Investigations

In 1990, Dames & Moore identified TPH-O at a concentration of 970 milligrams per kilogram (mg/kg) at 13 feet bgs within boring DM-B-12, located adjacent to the oil-water separator (Figure B-3). SECOR completed investigations within Area 2 in late 1990 and

early 1991 to assess the lateral and vertical extent of petroleum-impacted soil and groundwater (SEACOR, 1993d). Activities included the following:

- Drilling and collection of soil samples from two borings (B-1 and B-2) and one hand-auger boring (HA-4) in the vicinity of the oil-water separator.
- Installation and sampling of groundwater from monitoring well MW-2, adjacent to the oil-water separator.
- SECOR subsequently completed a focused RI/FS to support the selection of remedial alternatives (SEACOR, 1993d). Activities included the following:
- Installation and collection of soil and groundwater samplings from four wells (MW-12 through MW-15).
- Monitoring of the new wells.

The investigations identified hydraulic oil as LNAPL within wells MW-2 and MW-13 at maximum measured thicknesses of 0.73 and 0.91 foot, respectively. Dissolved-phase TPH was detected within groundwater samples collected from wells MW-2 and MW-13. Soil impacts were observed only within close proximity to the oil-water separator at depths between 5 and 12 feet bgs (borings B-1, B-2, and HA-4).

B.1.5.2 Decommissioned Diesel Storage Area Investigations

The eight aboveground storage tanks within the Decommissioned Diesel Storage Area passed tightness tests conducted by SECOR between December 1990 and January 1991. In 1995, diesel as LNAPL was observed within Area 2 well MW-12, prompting an investigation into the source. Dames & Moore completed investigations (Dames & Moore, 1999), including:

- Completion of tank tightness testing in 1996.
- Soil and groundwater sampling from 12 borings (SB-1 through SB-12) in 1996.
- Soil and groundwater sampling from nine probe locations (P-1 through P-9) in 1998.
- Groundwater monitoring and sampling from existing wells.

The tanks passed the tightness testing; however, a return line located below the AHTB (either within or below the concrete slab) would not pressurize. Reportedly, the tanks have not been used since 1996. It is unknown if the return line piping was tested during the earlier (1990-1991) tightness tests.

Borings SB-1 through SB-12 were completed within and to the west of the AHTB footprint. TPH as diesel range(TPH-D) was detected within the soil samples at concentrations as high as 77,500 mg/kg. The highest detection was measured in the sample taken from 9 feet bgs

from boring SB-2, located adjacent to MW-12. A water sample taken from boring SB-2 contained TPH-D at 128,000 micrograms per liter (µg/L). The highest TPH-D detections typically occurred within samples taken between depths of 7.5 to 9.5 feet bgs. Within the AHTB footprint, borings SB-8 and SB-9 (located within the western portion of the building and near the fuel return line) contained TPH-D concentrations as high as 47,100 mg/kg (within the 9.5 feet bgs sample taken at boring SB-9). The sample taken from 3 feet bgs within boring SB-9 contained TPH-D at a concentration of 4,800 mg/kg. Though TPH-D was detected within samples taken from boring SB-10 (located within the eastern portion of the AHTB building and closer to the tanks), the concentrations were significantly lower (maximum detection of 429 mg/kg) than detections within samples taken from borings SB-8 and SB-9.

Soil samples collected from P-1 through P-4, located west of the AHTB outside of the main building, and from P-7, located inside of the main building, contained TPH-D at concentrations ranging from 34 to 15,000 mg/kg. Water samples taken from P-1 through P-5 and P-7 contained dissolved-phase TPH-D at concentrations ranging from 1.2 to 96.0 milligrams per liter (mg/L). The lowest concentrations, 1.2 and 1.8 mg/L, were detected within the most southerly locations. Dames & Moore concluded that there was limited TPH-D dissolving from the LNAPL into the groundwater and that the dissolved TPH-D was attenuating naturally over a lateral distance of approximately 40 feet. Based on visual observation, it was determined that the product present within MW-12 was diesel, whereas the product present within MW-2 and MW-13 was hydraulic oil.

B.1.6 Area 3 – Former Underground Storage Tanks Area

During the 1990 limited Site characterization (Dames & Moore, 1990b), three borings (DM-B-6, DM-B-7, and DM-B-8) were completed within close proximity to the USTs in Area 3. One boring (DM-B-6) contained fuel-saturated soils at a depth of 7.5 feet bgs. Strong fuel odors were noted. BTEX was detected within a soil sample taken at 8 feet bgs from the boring. The sample did not contain TPH. Strong fuel odors were also observed during drilling of a second boring (DM-B-7), located approximately 20 feet southeast of the first. The soil sample taken from DM-B-7 did not contain BTEX or TPH. No odor was noted during drilling of boring DM-B-8 and the sample taken from the boring did not contain BTEX or TPH.

SECOR completed tank decommissioning and subsequent investigations in 1991. Activities included:

- Decommissioning and removal of the three USTs.
- Removal of approximately 66 cubic yards of soil from the three excavations.

- Collection of soil samples from the excavations.
- Installation, monitoring, and sampling of two wells within the former UST area (MW-3 and MW-4).
- Installation, monitoring, and sampling of a well downgradient of the former UST area (MW-8).

Low levels of TPH as gasoline-range (TPH-G) were detected within the 8,000-gallon UST excavation (SEACOR, 1991a). Elevated concentrations of TPH-G, TPH-O, and xylenes were detected within soil at the base of the 1,000-gallon UST excavation. Elevated concentrations of TPH-G were detected at the base of the 2,000-gallon UST excavation (SEACOR, 1991b).

TPH-G, TPH-O, and BTEX were identified within groundwater samples taken from MW-3, MW-4, and MW-8. LNAPL was not present. SECOR subsequently completed a focused RI/FS to further define the nature and extent of contamination and to support the selection of remedial alternatives (SEACOR, 1993c). Activities included the following:

- Drilling and collection of soil samples from four borings completed as wells (EW-1, MW-9, MW-10, and MW-11).
- Monitoring and sampling of wells within the vicinity of the former UST area.
- Completion of a vapor extraction pilot test and aquifer test.

Groundwater samples taken from wells EW-1 and MW-11 contained BTEX, TPH-G, and TPH-O. The sample taken from MW-9 contained TPH-O. The sample taken from MW-10 did not contain BTEX, TPH-G, or TPH-O. The investigation concluded that vapor extraction would be a viable option to address contaminants present within the capillary fringe and that pump and treat would be suitable for the shallow aquifer.

B.1.7 Area 4 – Decommissioned Oil Storage Area Investigations

The 1990 Dames & Moore limited Site characterization (Dames & Moore, 1990b) identified TPH at a concentration of 12 mg/kg within a soil sample taken from 8 feet bgs from boring DM-B-10, located west of the Decommissioned Oil Storage Area (Figure B-3).

SECOR drilled one boring (SB9) in 1991 and four borings in 1992 (4SB1 through 4SB4). A soil sample collected from SB9 from a depth of 8 to 8.7 feet bgs contained TPH-O at 14,000 mg/kg. Soil samples taken from depths between 6 and 9.5 feet bgs from borings 4SB1 through 4SB4 did not contain detectable concentrations of TPH-O or BTEX. SECOR concluded that the concentrations of TPH in soil in this area were isolated in extent and relatively immobile (SEACOR, 1993a).

B.1.8 Administrative Order on Consent Investigations

On July 10, 2003, Earle M. Jorgensen (EMJ) entered into an Administrative Order on Consent (AOC) with the U.S. Environmental Protection Agency (EPA). Investigations were completed in accordance with the statement of work included with the AOC. Investigations were conducted to determine if current or former operations at the Site were or had been a source of polychlorinated biphenyls (PCBs) and metals to sediments within the Lower Duwamish Waterway (LDW); determine the nature and extent of hazardous substances that may have been released at or from the Site; and to determine the threat to public health, welfare, or the environment resulting from release or threatened release of hazardous substances at or from the Site (Farallon and Anchor, 2006).

Investigations were completed in three phases and focused on determining whether the following migration pathways potentially contributed PCBs and/or metals from the Site to sediment in the LDW adjacent to the Site:

- Direct migration of groundwater to surface water or sediment,
- Stormwater discharge to surface water and sediment,
- Erosion of shoreline fill to sediment, and
- Transport and deposition of sediments to areas adjacent to the property.

The first phase included review, evaluation, and compilation of available information to identify potential sources of PCBs from current or historical operations at the property, to define potential contaminant pathways from the property to sediments in the adjacent LDW, and to define data gaps in the information necessary to determine whether migration of contaminants from the property has resulted in impacts to sediment quality in the LDW adjacent to the property. The first phase of the investigation produced a scope of work for investigating the identified data gaps in a second phase of investigation.

The second phase of the investigation included sampling of debris piles on the shoreline, shoreline bank-face fill, soil/fill from borings located near the top of the shoreline bank, and solids in the stormwater catch basins. The analysis included PCBs, arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, and zinc. The laboratory reported concentrations of PCBs and metals above the screening levels in the fill located along the shoreline and in solids collected from four catch basins located on the western, central, and eastern portions of the property. To further evaluate the source of the PCBs and metals detected in the fill and in the solids in the catch basins, a third phase of investigation was conducted to meet the requirements of the AOC.

The third phase of the investigation included collection and analysis of nearshore surface and subsurface sediment samples in the LDW adjacent to the property and stormwater outfall discharge samples for metals and PCBs. The results of the investigation fulfilled all remaining data gaps, and no additional investigations were required to meet the requirements of the order. The results of the investigation were submitted to EPA (Farallon and Anchor, 2006) and approved by EPA as complete (EPA, 2006).

Within the approval letter, EPA identified that it would require cleanup of portions of the Jorgensen Forge Corporation (JFC) bank and adjacent sediment (EPA, 2006). To continue with the agreed-upon approach to the cleanup, EPA, JFC, and EMJ entered into an Amended AOC in May 2008 to complete an Engineering Evaluation and Cost Analysis (EE/CA) and associated work removal action for contaminated bank material and sediment. The EE/CA was issued in 2011.

B.1.9 Capital Improvement Project Investigations

In 2007, geotechnical studies were completed at the Site within the main building to support capital improvement projects. Specifically, investigations were completed to support foundation design for new equipment including the Tacchi #2 lathe (Hollowbore Area), the Bueltman bar peeler (Machine Shop Area), a furnace (Forge Shop Area), and a manipulator for the 5,000-ton press (Forge Shop Area). During the investigation, soil samples were collected for laboratory analysis from three borings (FB-1 through FB-3). FB-1 and FB-3 were completed in the western and eastern ends of the Machine Shop Area, respectively, and FB-2 was completed in the Hollowbore Area.

Samples taken from FB-1 did not contain detectable concentrations of TPH-G, TPH-D, or TPH-O. The samples taken from FB-2 contained TPH-O at 40,000 mg/kg (1 to 3 feet bgs) and 150,000 mg/kg (3 to 5 feet bgs). A sample taken from FB-3 from 3 to 5 feet bgs contained TPH-O at 140,000 mg/kg. The 1 to 3 feet bgs sample from FB-3 did not contain detectable TPH-O. No other investigations have been completed in the vicinity of FB-3 and the source of the TPH-O contamination is unknown.

According to the design memorandum issued for the Tacchi lathe and Bueltman bar peeler, cone penetrometer explorations completed within the Hollowbore Area and Machine Shop Area encountered approximately 6 to 8 feet of sand and silty sand underlain by an approximately 2 to 3 feet thick layer of clayey silt and silty clay. Below the clayey silt and silty clay, sand was observed to depths of 21 to 32 feet (the extent explored) (Anchor, 2008).

According to the design memorandums issued for the furnace and manipulator, a boring was completed in the vicinity of the features (Anchor, 2007 and 2009). The boring encountered medium dense sand described as fill (8 feet) over medium dense loose sand (8

to 10 feet bgs), over soft silt (10 to 13 feet bgs) over sand (13 feet bgs to the bottom of the boring at 25 feet bgs) (Anchor, 2007).

In 2007 and 2008, excavations were completed for the capital improvements. Within the Hollowbore Area, an excavation was completed to approximately 4 feet bgs for the Tacchi lathe foundation. Within the Machine Shop Area, an excavation of approximately 6 feet bgs was completed for the Bueltman bar peeler foundation. Within the Forge Shop Area, excavations for the furnace and manipulator were completed to depths of approximately 4 and 4.5 feet bgs. Contaminated soil was properly stockpiled and managed. However, we have been unable to identify the quantity of contaminated soil that was removed.

B.1.10 Quench Tank Investigation

In 2009, JFC decided to remove the quench oil from Q2 that had not been used for over 30 years. To facilitate disposal, the quench oil was characterized. PCBs were detected at 3.7 mg/L within the oil, prompting further investigation. Several samples were collected to assess quench oils at the Site including:

- Oil from Q1
- Oil from Q2
- Oil from Q1/Q2 combined overflow tank
- Oil from within the vertical heat treat furnace vault (within Q1/Q2/Q3 vault)
- Oil from the Q1/Q2/Q3 vault
- Water from the Q1/Q2/Q3 vault
- Water from Q5
- Oil from Q6
- Oil from Q6 overflow tank vault
- Water from Q5/Q6 vault
- Liquid from Q7
- Liquid from Q7 containment
- Water form Q8
- Water from Q4
- Water from Q9

PCBs were detected at concentrations ranging from 3.7 to 9.4 mg/L within the oil samples taken from Q1, Q2, the Q1/Q2 combined overflow tank, and the Q1/Q2/Q3 vault. PCBs were not detected within any of the other samples. Following the analysis, JFC removed the

liquids within Q1, Q2, and associated structures and cleaned the features. The removed liquids and wash fluids were disposed of offsite. Wipe samples taken from Q1 following cleaning did not contain detectable PCBs. According to the memorandum issued to document the investigation, "all permanent quench tanks were intact with surrounding containment areas to adequately contain any potential spills and/or releases and the two portable quench tanks are outfitted with overflow structures. No pathways were identified from any of the quench tanks or supporting equipment to surrounding soils, groundwater, or stormwater, or the Lower Duwamish Waterway, and no records of spills or releases were identified from any of the tanks beyond the containment structures" (Anchor QEA, LLC, 2011).

B.1.11 Boeing Resource Conservation and Recovery Act Investigations

Releases from the Boeing Plant 2, specifically from Boeing Area 2-66, have led Boeing to complete investigations on the Site under the EPA Resource Conservation Recovery Act (RCRA) process. The objective of these investigations has been to delineate the nature and extent of contamination on the Site resulting from Boeing Plant 2 operations.

Excerpted tables and figures from Boeing Plant 2 investigations are provided in Attachment B-1.

B.1.11.1 Boeing Area 2-66

Investigations completed within Boeing Area 2-66 have shown impacts associated with a historical trichloroethene (TCE) tank and piping system outside of the southwest corner of former Boeing Building 2-66. The tank and piping system were removed, and an interlocking steel sheet pile (SSP) was constructed around approximately 90% of the TCE contamination mass (Anchor and Farallon, 2008). Boeing has monitored the TCE groundwater plume. Monitoring included installation, monitoring, and sampling from wells located at the northwest corner of the Site. The wells were designated as "PL2-JF" followed by three additional numbers and letters (i.e., PL2-JF02A). These wells were decommissioned in 2013.

Halogenated HVOCs) and degradation byproducts such as cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride have been consistently detected within these Site wells due to deflection of groundwater around the 2-66 sheet pile enclosure and onto the Site. The most recent groundwater monitoring event prior to the wells being decommissioned was in 2013. At that time, well PL2-JF01AR and PL2-JF01B contained vinyl chloride at 9.3 and 0.3 µg/L. Cis-1,2-DCE was detected at 0.6 µg/L within the sample taken from PL2-JF01AR.

B.1.11.2 Other Area 11

In 2001, elevated concentrations of PCBs were detected in soil samples collected from an excavation completed near transformers associated with an electrical substation within Other Area 11 (OA-11), at the southern end of Boeing Plant 2 (within Area 2-66). In 2003 and 2005, Boeing completed investigations to determine the extent of the release and reported in the Phase I Transformer PCB Investigation Report (Floyd Snider McCarthy, Inc., 2004) and in the Phase II Transformer PCB Investigation Report (Floyd | Snider and Weston Solutions, Inc., 2005). These investigations included the completion of several borings at the Site. Borings were designated as "SB-07" followed by three additional digits (for example, boring SB-07252). Borings completed on Site are shown in Figure B-8. Boring SB-07250, located on Site, contained PCBs at 3 mg/kg (Floyd | Snider and Weston Solutions, Inc., 2005). The investigations concluded that the stormwater conveyance system serving the transformer and wider area was a complete pathway for PCBs to the LDW sediments.

Boeing completed an interim measure for OA-11 in September and October 2016 consisting of removal of PCB-contaminated soil on Boeing Plant 2 property and extending onto the Site. Samples collected from the southern sidewall of the excavation contained PCBs at concentrations exceeding 50 mg/kg, prompting the need for additional investigation. In April 2017, 13 borings were completed on the Site (JF-DP01 through JF-DP013). Findings from the investigation were summarized in a technical memorandum (Floyd | Snider, 2017) that has been submitted to EPA. In response, on behalf of EMJ, Shannon & Wilson submitted a technical memorandum concluding that contamination from OA-11 on Boeing Plant 2 had impacted the Site (Shannon & Wilson, 2018).

B.1.12 Jorgensen Forge Outfall Site

The stormwater conveyance system, known as the Jorgensen Forge Outfall Site (JFOS), was initially investigated by consultants for Boeing in 2005. The investigation involved collecting and analyzing solids material within the outfalls and conducting a video survey to document any cross connections to the outfalls (Floyd | Snider and Weston Solutions, 2005). The video survey identified two lines connected to the 24-inch pipe, including a 15-inch-diameter pipe from Boeing Plant 2, a historical 12-inch pipe extending from the Site, and a 6-inch pipe potentially extending from the Site. Boeing Plant 2 was identified as the only source to the 12-inch pipe. The 24-inch pipe was observed to extend east of the Site and under East Marginal Way South. Dye testing, completed by Ecology, determined that the King County International Airport stormwater drainage system was connected to the 24-inch outfall.

Solids samples were collected from manholes located along the 12- and 24-inch pipes:

- Samples SD001, SD004, SD005, and SD006 were collected from along the 24-inch outfall pipe. Sample SD006 was taken from a manhole located outside of the Site property line to the east.
- Sample SD002 was taken from along a 15-inch lateral leading from Boeing to the 24-inch outfall pipe.
- SD003 was taken from along the 12-inch outfall pipe.
- CB010, CB011, and CB012 were taken from a manhole on the 12-inch outfall pipe.

Elevated concentrations of PCBs were detected in solids within both JFOS pipes. It was concluded, however, that the PCBs discovered as a source in soil adjacent to the transformer substation had not migrated into either of the pipes.

The 2005 investigations identified two lateral connections to the 24-inch pipe that appeared to originate on the Site; a 6-inch lateral and a 12-inch lateral. A third connection, observed to be plugged, was identified on the Site near the office building. The office building was associated with Bethlehem Pacific prior to use by Jorgensen Forge Corporation and Star Forge. The connection is referred to as the Office Building Lateral. An investigation was conducted on behalf of JFC to assess the extent of the 6-inch and 12-inch laterals and to characterize PCB concentrations within them. Findings were documented within the Historical 6- and 12-inch Lateral Pipes Investigation Report (Anchor QEA, 2010).

Investigations to assess the 6-inch lateral included completion of a 3-foot-wide, 15-foot-long, and 4-foot-deep trench along the fence line on the Site in the purported location of the 6-inch lateral. The lateral was not identified within the excavation. A review of historical aerial photographs indicated that there were no structures on the Site within proximity to the 6-inch lateral; however, a building (Building 2-72) was located on the Boeing Plant 2 property in the vicinity of the lateral (Anchor QEA, 2010). It was concluded that the 6-inch lateral identified in 2005 did not originate on the Site.

Investigations to assess the 12-inch lateral included collection of samples from within the 12-inch lateral at the connection with the 24-inch pipe (12SD-070105-01) and at locations upgradient from the connection with the 24-inch pipe (12SD-070105-02), completion of excavations to access the termination point of the lateral, and review of aerial photographs. During the investigation, a piece of dimensional lumber was removed from the 12-inch lateral. The pipe was also determined to be a 10-inch pipe (not 12-inch); however, the 12-inch lateral labeling has remained for consistency. The pipe was traced to a termination point outside of the former Bethlehem Pacific buildings (Anchor, 2010).

PCBS were measured within samples taken from the 12-inch lateral upgradient from the connection with the 24-inch pipe at concentrations ranging from 2 to 8.8 mg/kg, significantly

lower than concentrations measured in samples taken from near the connection (1,100 mg/kg) or downgradient of the connection within the 24-inch pipe (10,000 mg/kg). It was concluded that the PCB concentrations within the 12-inch lateral were likely attributed to tidal flushing and was not the source of PCBs detected in the 24-inch pipe.

In 2007, JFC engaged a title insurance company to conduct a review of all current beneficiaries of easements on the property, which specifically include the property line outfalls. This research identified a single easement (No. 4582029) granted by the former Bethlehem Pacific to Boeing. The easement was provided "for the construction, connection, operation, maintenance, repair, alteration, improvement and reconstruction" of the 15-inch storm drain line extending from Boeing Plant 2 and connecting to the 24-inch property line outfall located within the property. The easement contained an area of approximately 176 square feet. The research did not identify any additional easements for either the 12-or 24-inch property line outfalls.

Plant 2 reportedly ceased discharges to both pipes in the mid-1990s. It is not known when the Bethlehem Steel facility ceased discharges to the 24-inch pipe; though the discharges are likely to have stopped by the early 1960s when the facility was dismantled. Boeing Plant 2 is the only known historical source of discharge to the 12-inch line and KCIA and the City of Tukwila are the last known sources of discharges to the 24-inch line.

On November 7, 2008, the Washington State Department of Ecology (Ecology) issued a Notice of Violation (NOV) to King County and the City of Tukwila for the discharge of stormwater through an area of known contamination (Ecology, 2008) in the 24-inch pipe. King County and the City of Tukwila jointly responded to the NOV, stating that they were not responsible for any remedial action of the downgradient portion of the JFOS 24-inch pipe located on the property (King County and City of Tukwila, 2008).

In 2010, Ecology transferred oversight of the JFOS 24-inch pipe assessment and removal actions to the EPA Office of Emergency Response. The EPA entered into the Removal Order with Jorgensen and Boeing (Comprehensive Environmental Response, Compensation, and Liability Act [CERCLA] Docket No. 10-2011-0017). Under this Removal Order, the 12- and 24-inch pipes were cleaned out and sealed to prevent further discharges to the LDW. During a pre-cleaning video survey of the pipe, the Office Building Lateral was confirmed to be plugged. A 4-inch lateral was discovered at the eastern end of the Site. The pipe extended vertically from the top of the 24-inch pipeline, turned south, and then went vertical, terminating approximately 12 inches bgs within the parking area (Floyd Snider, 2011).

Twelve borings (T1B1 through T1B4, T2B1 through T2B4, and T3B1 through T3B4) were advanced to evaluate the release of hazardous substances to soil surrounding corrugated metal pipe (CMP) portions of the pipes. A summary of this investigation was presented in the Source Control Action Completion Report (Floyd | Snider, 2011). Elevated concentrations of PCBs were detected in soil beneath the deteriorated portions of the pipes.

Twelve additional borings (B-DGP1, B-DGS1, JF-DGP1 through JF-DGP6, JF-DGS1 through JF-DGS3, and JF-DGT1) were advanced at the western end of the JFOS pursuant to the First Modification to the Removal Order (CERCLA Docket No. 10-2011-0017) to determine the extent of soil containing PCB concentrations above 1 mg/kg. A summary of the results of the investigation were presented in the Phase 2 Geoprobe Investigation Summary Report (Anchor QEA and Farallon, 2012).

Due to the presence of PCBs greater than 1 mg/kg within the deepest samples collected from three of the twelve previously completed borings, three borings were completed to collect samples from greater depths. The locations were completed at the location of JF-DGP3, T1B3, and T2B4. Results were summarized within the Technical Memorandum with the subject Results of Additional Soil Geoprobe Vertical Characterization at the Jorgensen Forge Outfall Site (Anchor QEA, 2013).

In 2013, four angle borings were drilled and sampled pursuant to the Second Modification to the Removal Order. The primary objective of the investigation was to define the west lateral extent of the PCB-contaminated soil greater than 1 mg/kg. The west lateral extent of PCB contamination in the JFOS extended beyond the LDW top-of-bank line into the underbank area, which was situated within the Jorgensen Forge Early Action Area (EAA). The results of the angle boring investigation were presented in the Data Report of Soil Quality Angle Boring Results (SoundEarth Strategies, Inc., 2013).

B.1.13 Lower Duwamish Working Group Shoreline Seep Investigation

The Lower Duwamish Working Group (LDWG) conducted seep surveys and sampling as part of the Phase 2 LDW RI. The study was designed to conduct a reconnaissance survey of all LDW seeps and to collect seep water from a subset of these seeps for chemical analysis (Windward Environmental, LLC, 2004). Data from this study were to be used to:

- Evaluate whether shoreline seep discharges may significantly contribute to chemical inputs to the LDW, either through dissolved phase, colloidal phase, or product phase inputs.
- Determine if additional seeps should be selected for sampling in the future either as part of the Phase 2 RI, Site-specific source evaluations, or as part of the source control work being conducted by the LDWG.

In May 2004, the area adjacent to the Site was identified as a lower seepage level area during the reconnaissance survey. Light sheen was observed in water within the vicinity of the Site, though not within the observed seep or its intertidal vicinity. In July 2004, the seep (Seep 20), located adjacent to the concrete panel bulkhead wall on the southwest Site shoreline, was sampled. The sample (LDW-SP-20) was analyzed for filtered and unfiltered metals; semivolatile organic compounds (SVOCs), PCBs, organochlorine pesticides, VOCs, total organic carbon, dissolved organic carbon, and total suspended solids (TSS). SVOCs, PCBs, organochlorine pesticides, and VOCs were not detected. Copper was the only metal detected above the LDW screening level.

B.1.14 Source Control Evaluation Investigations

Following an Administrative Order (AO) (No. DE 4127) issued by Ecology to the JFC, Anchor and Farallon conducted a Source Control Evaluation in 2008 to determine the nature and extent of potential ongoing sources of chemicals from the uplands to the adjacent sediment in the LDW (Anchor and Farallon, 2008). PCBs, metals, petroleum hydrocarbons, SVOCs (primarily polycyclic aromatic hydrocarbons [PAHs]), and VOCs were identified as chemicals of interest at the Site. The evaluation identified data gaps that required additional investigation:

- Insufficient SVOC and PAH data in groundwater to adequately assess the potential impacts from these chemicals to sediment quality;
- Evaluation of the quality of stormwater infiltrating into the railroad scale vault, groundwater that infiltrates into the vacuum de-gassing pit, and fluids that potentially enter the AOD vault and are subsequently pumped to the stormwater conveyance system;
- An assessment of potential source areas in the Forge Shop Area and the Melt Shop Area to soil and groundwater;
- The extent of LNAPL on the Site; and
- An assessment of the effectiveness of existing Best Management Practices (BMPs) to control the impacts of the storage, distribution, and incidental releases of petroleum products on the Site.

Additionally, changes were made to Site operations and byproduct handling to improve stormwater runoff quality.

Additional investigations were completed in 2008 and 2009 and included installation of monitoring wells (MW-37 through MW-52) and completion of borings (SB-13 through SB-19), soil and groundwater sampling, stormwater sampling, facility byproduct sampling, and groundwater monitoring. The analyses included PCBs, metals, petroleum

hydrocarbons, SVOCs including PAHs, and VOCs. Laboratory analysis detected TPH, metals, one SVOC, one PAH, and VOCs in soil, and TPH, metals, SVOCs, PAHs, and VOCs in groundwater. Stormwater samples contained concentrations of TPH, metals, SVOCs, and PAHs.

The evaluation (Anchor QEA and Farallon, 2011) concluded that direct discharge through one of the outfalls was the only potential pathway for migration of chemicals from the Site to the LDW sediments, and identified three ongoing potential sources of chemicals: discharge of byproducts associated with Site operations to the stormwater system, eroded soil entering the stormwater system, and metals in stormwater. Following the evaluation, JFC improved its stormwater system by combining the three outfalls operating at that time into a single outfall (Outfall 3) and implementing stormwater treatment. Stormwater sampling and stormwater treatment are discussed in the following section.

B.1.15 Stormwater Sampling

Stormwater sampling has been performed at the Site as part of the Source Control Evaluation and as a requirement of Ecology's NPDES Industrial Stormwater General Permit (Permit No. WAR-003231) and Ecology AO, Docket #8682.

The results of stormwater sampling performed as part of the Source Control Evaluation were presented in the Source Control Evaluation Report (SCER) (Anchor and Farallon, 2008) and the SCER Addendum (Anchor QEA and Farallon, 2011).

Stormwater sampling was also performed as a requirement of the NPDES permit and Ecology AO in response to benchmark exceedances that required Level 3 Corrective Actions under Condition S8 of the NPDES permit and ongoing NPDES discharge monitoring consistent with the Storm Water Pollution Prevention Plan (SWPPP). The results of the NDPES-required stormwater sampling were presented in the NPDES Engineering Report (Anchor QEA, 2012) and within the Stormwater Treatment System Engineering Report (SoundEarth, 2014).

A brief summary of the stormwater sampling results is provided in the following sections.

B.1.15.1 Source Control Evaluation Report Stormwater Sampling

The SCER presented stormwater sampling from Outfalls 001, 002, and 003. The samples were analyzed for metals (total and dissolved) and PCBs.

- Dissolved copper and nickel exceeded the source control screening levels.
- PCBs were not detected at or above the reporting limit (0.19 µg/L) in the samples from Outfalls 002 and 003. Outfall 001 was not sampled for PCBs.

B.1.15.2 Source Control Evaluation Report Addendum Stormwater Sampling

The SCER Addendum presented stormwater results from the data gaps investigation, which included Outfalls 001, 002, and 003, and roof runoff samples. The samples were analyzed for a broad range of constituents, including total and dissolved metals, VOCs (BTEX), PAHs, SVOCs, and TPH.

- VOCs were not detected in any of the outfall samples.
- Except for benzo(a)anthracene and chrysene (within in the Outfall 003 sample), PAHs were either non-detect or detected below the source control screening levels.
- SVOCs and TPH were typically not detected; when they were detected, concentrations were below the source control screening levels.
- Stormwater samples from Outfall 001 contained dissolved arsenic, copper, and zinc at concentrations exceeding the source control screening levels. The total copper and zinc concentrations exceeded the NPDES benchmark values.
- Stormwater samples collected from Outfall 002 contained dissolved chromium and copper at concentrations exceeding the source control screening levels.
- Stormwater samples from Outfall 003 contained dissolved chromium, nickel, zinc, and copper at concentrations exceeding the source control screening levels.
- Roof runoff samples were collected from a number of locations within the Outfall 002 and Outfall 003 drainage areas and were analyzed for total and dissolved metals.
- The Outfall 002 runoff samples contained concentrations of dissolved cadmium, copper, and nickel exceeding the source control screening levels. All other detected dissolved and total metals were measured at concentrations below the source control screening levels and NPDES benchmark values, respectively.
- The Outfall 003 runoff samples contained concentrations of dissolved cadmium, copper, lead, nickel, and zinc exceeding the source control screening levels. All other detected dissolved metals were measured at concentrations below the source control screening levels. Total copper was detected at concentrations exceeding the NPDES benchmark value. Detected concentrations of total zinc exceeded the NPDES benchmark value in three of the four samples.

Based in part on the results of the stormwater sampling described above, the SCER Addendum concluded that additional source control implementation was necessary to decrease stormwater discharges from the Site to concentrations below levels protective of sediment and surface water quality.

B.1.15.3 National Pollutant Discharge Elimination System Engineering Report Stormwater Sampling

The NPDES Engineering report presented the results of quarterly stormwater discharge monitoring for Outfalls 001, 002, and 003 from March 2010 through February 2012 (Anchor QEA, 2012), prior to the construction of the stormwater treatment system. The samples were analyzed for total copper, lead, and zinc.

- Outfall 001 samples exceeded the NPDES benchmark for copper in 6 of the 9 samples and for zinc in all 9 samples. Lead was below the benchmark in all 9 samples.
- Outfall 002 samples exceeded the benchmark for copper in 6 of the 9 samples and for zinc in 5 of the 9 samples. Lead was below the benchmark in all 9 samples.
- Outfall 003 samples exceeded the benchmark for copper and zinc in all 9 samples. Lead was below the benchmark in all 9 samples.

Due to the NPDES Permit benchmark value exceedances for metals and in accordance with Section S8 of the NPDES Permit, JFC designed and constructed a stormwater treatment system.

The stormwater "phase 1" treatment system became operational in March 2013 and consisted of a central collected pump vault where roof and surface runoff were pumped to the treatment system (SoundEarth, 2014). The "phase 1" treatment system consisted of a rapid sand filter. Reportedly, process water or domestic wastewater were not allowed to enter the stormwater treatment system. The treated stormwater was allowed to discharge through Outfall 003 as the sole stormwater discharge point for the facility.

B.1.15.4 Stormwater Treatment System Engineering Report Stormwater Sampling

The Stormwater Treatment System Engineering report (SoundEarth, 2014) presented the results of stormwater treatment system effluent monitoring (Outfall 003) from April 2013 through March 2014, following startup of the "phase 1" stormwater treatment system. The samples were analyzed for TPH and for total copper, lead, and zinc.

- TPH was detected in 2 of 11 samples at concentrations above the NPDES permit benchmark.
- Lead was below the benchmark in all of the samples.
- Copper was detected in 7 of the 11 samples at concentrations above the NPDES benchmark.
- Zinc was detected in 10 of the 11 samples at concentrations above the NPDES benchmark.

Based on sample analysis, the "phase 1" treatment system could not meet performance standards, therefore the "phase 2" stormwater treatment system was constructed and was operational in August 2014 (SoundEarth, 2017). The "phase 2" stormwater treatment system included a central underground vault from which stormwater was pumped through a series of five settling tanks and then through pressurized sand filters. The stormwater was then pumped through an inline bag filter with 5-micron filter bags and though a duplex Multi-Media Filtration and Adsorption unit. The sand filters were backflushed automatically (based on differential pressure). The backflush water was routed to a backflush settling tank from which it overflows to the first of the five settling tanks. Treated water is discharged by gravity flow to Outfall 003 (SoundEarth, 2017).

B.1.15.5 Stormwater Violation of 2020

During January 2020, PCBs were detected in treated stormwater discharge at concentrations of 0.059 ug/L which exceeded the discharge limit of 0.03 ug/L (Ecology, 2020). Ecology was notified of the violation in February 2020.

As a result of the detected concentrations of PCBs, Jorgensen Forge Corporation proposed to implement several immediate actions (SoundEarth, 2020), including:

- Installation of straw wattles and sandbags around 23 catch basins;
- On-going batch basin filter, straw wattle, and sandbag inspection and regular replacement;
- Replacement of sand media in the pressurized sand filters;
- Tank cleaning of the five settling tanks, including water and sludge removal; and
- Installation of a chemical flocculant system pending the request for chemical treatment approval by Ecology.

As a result of the violation, Ecology issued AO 18074. The order required batch sampling and treatment of stormwater and allows discharge only after sample results show discharged meet indicator levels identified in the Order. The indicator levels for barium and chromium were revised per Settlement Agreement PCHB no. 20-038. The current indicator levels are listed in final Agreed Order no. 18074, Tables 1 and 2, dated April 9, 2020.

B.1.15.6 Semiannual Treatment System Monitoring Report

After the "phase 1" stormwater treatment became operational in March 2013, the treatment system was monitored for NPDES-permit-required parameters (total copper, lead, and zinc; TPH; pH; turbidity; and visible oil sheen) until August 2013.

Beginning in September 2013, additional parameters and sampling points, requested by Ecology and outlined within the Supplemental Monitoring Plan (SMP), were incorporated into the monitoring schedule. The SMP calls for collecting influent samples, effluent samples, and water quality characterization (WQC) samples. The WQC sample port is located on the supply line from the collection vault before the treatment system pre-settling tanks; the influent sample port is located before the sand filter unit; and the effluent sample port is located downstream of the multi-media filtration unit before Outfall 003.

- Currently, sampling includes the following laboratory and field-measured parameters per Administrative Order no. 18074 and the Industrial Stormwater General Permit: PCBs
- Metals (total and dissolved arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc)
- BTEX
- Gasoline-range hydrocarbons
- Diesel-range hydrocarbons
- TSS
- pH (field-measured)
- Turbidity (field-measured)
- Visible oil sheen (field-measured)

A summary of the stormwater sampling results from January through March 2022 is available in Ecology's Water Quality Permitting and Reporting Information System and represents the most current data available to us. It appears that screening levels were not exceeded during the monitoring period.

B.1.16 Washington State Department of Ecology Lower Duwamish Waterway Polychlorinated Biphenyl Congeners and Aroclors Groundwater Sampling

In March and April 2017, Leidos, Inc. collected groundwater and surface water samples from 17 properties located immediately adjacent and regionally upgradient from the LDW. At the Site, monitoring wells MW-23, MW-48, and MW-51 were sampled and analyzed for PCBs as congeners and as aroclors. According to the data report summarizing the results (Leidos, Inc., 2017), the samples collected at the Site contained total PCB congeners at concentrations ranging from 0.000028 to 0.0000681 µg/L. PCB aroclors were not detected within the samples.

B.1.17 August 2017 Well Repairs and Groundwater Monitoring and Sampling

In August 2017, groundwater monitoring well repairs were completed at the Site. A comprehensive groundwater monitoring and sampling event followed the repair activities. Activities were completed in accordance with the July 13, 2017, Shannon & Wilson work plan (Shannon & Wilson, 2017).

Table 1 of the main report summarizes the current groundwater monitoring well status and construction details. Depth to water and LNAPL thickness measurements collected in August 2017 (along with available historical measurements) are presented in Table 2 of the main report.

Results from the groundwater and LNAPL analyses are included within the tables provided in this appendix. Key findings include:

- Samples collected from wells MW-3 and MW-4 contained TPH-G at concentrations exceeding the screening level of 1,000 µg/L. These wells had previously shown concentration reductions to below laboratory reporting limits. No other groundwater samples contained TPH-G at detectable concentrations.
- Samples collected from wells MW-11, MW-30, MW-31, MW-32, MW-34, MW-43, and MW-46 contained TPH-D at concentrations exceeding the screening level of 500 µg/L.
- The sample taken from MW-31 contained one PAH (acenaphthene) at a concentration exceeding the screening level. No other PAH detections exceeded screening levels; however, laboratory reporting limits for several PAHs were above their respective screening levels.
- The samples taken from MW-14, MW-24, MW-31, MW-32, MW-41, and MW-51 contained one SVOC (bis[2-ethylhexyl] phthalate) at concentrations exceeding the screening level. No other SVOCs were detected above screening levels, though reporting limits for several SVOCs were above their respective screening levels.
- PCB aroclors were not detected above laboratory reporting limits, which exceeded the screening level. PCB congeners were detected at low levels. Summed values of the congeners exceeded the screening level.
- TCE was detected in samples taken from wells MW-23, MW-49, and MW-51; these wells are located along the northern property line adjacent to the Boeing 2 Plant. The sample taken from MW-49 contained TCE at 0.83 µg/L, above the screening level of 0.7 µg/L. Vinyl chloride was detected in samples taken from MW-31, MW-40, MW-41, MW-43, MW-45, MW-46, MW-49, MW-51, and MW-52. Several vinyl chloride detections exceeded the screening level of 0.18 µg/L. No other VOCs were detected above screening levels.
- Total arsenic was detected in wells MW-6, MW-9, MW-23, MW-24, MW-32, and MW-36 at concentrations exceeding the screening level of 8 µg/L. Total arsenic was detected at a

maximum concentration of 46.6 µg/L in the sample taken from MW-36. Dissolved arsenic concentrations exceeded the screening level in samples taken from MW-6, MW-23, MW-24, MW-32, and MW-36 with the maximum detection occurring in the sample taken from MW-24 (29.4 µg/L).

- Total cadmium was detected at slightly above the screening level in one sample (taken from MW-9). Dissolved cadmium was detected in several samples, but at concentrations below the screening level.
- Total and dissolved chromium were detected at concentrations of up to 22.3 µg/L and 27.4 µg/L, respectively, below the total chromium screening level of 100 µg/L. The maximum dissolved chromium detection (27.4 µg/L measured at MW-39) exceeded the trivalent chromium screening level of 27 µg/L.
- Hexavalent chromium (Cr[VI]) was detected in 2 samples; both samples were taken from near the shoreline. Both detections were above the screening level.
- Total cobalt was detected within all but one sample, with one detection (from well MW-15) exceeding the screening level.
- Total and dissolved copper were detected above the screening level in three samples and one sample, respectively.
- Total and dissolved manganese were detected in all samples, with samples taken from 21 and 18 wells exceeding the screening level, respectively.
- Total mercury was detected in two samples. Dissolved mercury was not detected. The two detections and all reporting limits exceeded the screening level.
- Total and dissolved nickel was detected in all samples. One total nickel detection was slightly above the screening level.
- Lead, selenium, silver, and zinc were not detected at concentrations exceeding their respective screening levels.
- The LNAPL sample taken from the Area 1 LNAPL plume contained petroleum hydrocarbons within the oil range. The sample taken from the Area 2 LNAPL plume contained petroleum hydrocarbons within the oil and diesel ranges.

B.1.18 February 2018 Groundwater Monitoring and Sampling

In accordance with the July 13, 2017, Shannon & Wilson Work Plan (Shannon & Wilson, 2017), a groundwater monitoring and sampling event was completed in February 2018. Depth to water and LNAPL thickness measurements collected in February 2018 (along with available historical measurements) are presented in Table 2 of the main report.

Results from the groundwater and LNAPL analyses are included within the tables provided in this appendix. Key findings include:

- In August 2017, samples collected from wells MW-3 and MW-4 had contained TPH-G above the screening level of 1,000 µg/L. In February 2018, TPH-G was not detected within the sample taken from MW-3 and was detected below the screening level (concentration of 199 µg/L) within the sample taken from well MW-4.
- Samples collected from several wells contained TPH-D at concentrations exceeding the screening level of 500 µg/L. These wells include MW-11, MW-30, MW-31, MW-34, MW-36, MW-40, MW-41, MW-45, and MW-46.
- During the August 2017 event, wells MW-11, MW-31, MW-32, and MW-46 contained TPH-O at concentrations above the screening level of 500 µg/L. In February 2018, these wells did not contain detectable TPH-O.
- The sample taken from MW-46 contained one PAH (naphthalene) at a concentration exceeding the screening level. No other PAH detections exceeded screening levels. Laboratory reporting limits for several PAHs were above their respective screening levels.
- No SVOCs were detected above screening levels, though reporting limits for several SVOCs were above their respective screening levels.
- PCB aroclors were not detected above laboratory reporting limits, which exceeded the screening level. PCB congeners were detected at low levels. Summed values of the congeners exceeded the screening level.
- TCE was detected in the sample taken from well MW-49, located along the northern property line adjacent to the Boeing 2 Plant. The sample taken contained TCE at 2.88 µg/L, above the screening level of 0.7 µg/L. Vinyl chloride was detected in samples taken from MW-31, MW-40, MW-41, MW-43, MW-45, MW-46, MW-49, MW-50, MW-51, and MW-52. Several vinyl chloride detections exceeded the screening level of 0.18 µg/L. No other VOCs were detected above screening levels.
- Total arsenic was detected in wells MW-6, MW-9, MW-23, MW-24, MW-36, MW-39, MW-40, MW-41, and MW-46 at concentrations exceeding the screening level of 8 µg/L. Total arsenic was detected at a maximum concentration of 82.2 µg/L in the sample taken from MW-41. Dissolved arsenic concentrations exceeded the screening level in samples taken from MW-36, MW-40, and MW-41 with the maximum detection occurring in the sample taken from MW-41 (29.3 µg/L).
- Total cadmium was detected at slightly above the screening level in one sample (taken from MW-9). Dissolved cadmium was detected in several samples, but at concentrations below the screening level.
- Total chromium was detected at concentrations up to 93 µg/L, below the total chromium screening level of 100 µg/L. At two locations (MW-39 and MW-42), the detected concentrations were above the trivalent chromium screening level of 27 µg/L. Dissolved chromium was detected at concentrations of up to 29.7 µg/L, with one detection (MW-42) exceeding the trivalent chromium screening level of 27 µg/L.

- Cr(VI) was detected in two samples. Detections were above the screening level.
- Total cobalt was detected within all analyzed samples, with one detection (from well MW-15) exceeding the screening level.
- Total copper was detected above the screening level in one sample.
- Total and dissolved manganese were detected above screening levels in samples taken from all samples, with samples taken from 25 and 21 wells, respectively.
- Total nickel and total zinc were detected above the screening level in the sample taken from well MW-39.
- Lead, mercury, selenium, and silver were not detected at concentrations exceeding their respective screening levels.
- The LNAPL sample taken from the Area 1 LNAPL plume contained arsenic and cobalt. The sample taken from the Area 2 LNAPL plume contained lead and manganese.

B.1.19 Clean Closure Investigations

The surface of the floor within the Melt, Forge, and Heat Treat Shop area has been historically covered with a layer of dust presumed to be a "mixture of dust, fine particulates, soil 'track-in' and exposed soil that accumulated throughout the facility over many years of operation" (DH Environmental, 2020). The dust is not believed to be associated with any single facility operation. Star Forge removed much of the dust (approximately 2,500,000 lbs) in 2019 and 2020, but some remains.

Because the remaining dust would need to be managed during building demolition activities, Star Forge's consultant, DH Environmental, completed a statistical evaluation of the dust in 2020 to designate the material. Their effort included the collection of 22 dust samples and analysis for VOCs, PCBs, metals (including RCRA metals and copper, nickel, and zinc), and Toxicity Characteristic Leaching Procedure (TCLP) metals (RCRA metals). Findings from the evaluation included:

- Mean TCLP RCRA metal concentrations were below toxicity thresholds.
- The mean PCB concentration was 0.83 mg/kg.
- Low levels of VOCs, below TCLP volatiles characteristic levels, were detected.
- Washington State Toxic Criteria book designation calculations resulted in Equivalent Concentrations (ECs) between 0.001% and 1.0%, which would lead to a book designation of Washington State Toxic Criteria WT02. Fish bioassays were completed on the two samples with highest ECs. The fish bioassay analyses resulted in zero fish mortality and the material was designated as Non-Dangerous Solid Waste.

B.2 PREVIOUS REMEDIAL ACTIONS

This section describes remedial actions undertaken in the various areas of the Site.

B.2.1 Interim Remedial Actions

B.2.1.1 Area 1 – Hollowbore Area

In 1993, EMJ installed a remedial system within Area 1 consisting of product and groundwater recovery and reinjection. The system included a horizontal recovery well system with pneumatic pumps for LNAPL recovery. Approximately 15,106 gallons of cutting oil were recovered and more than 120,500 gallons of groundwater were extracted in Area 1 through November 25, 1996 (Dames & Moore, 1997).

There is limited access to the subsurface in Area 1 due to the presence of machinery and operations within the main building. Both SECOR and URS concluded that based on the rate of recovery and type of oil found in Area 1, continued extraction of the LNAPL by pumping was not deemed cost effective, would not help meet MTCA CULs without more invasive measures (which cannot feasibly be accomplished until operations are terminated and the machinery and subsurface foundations in the Hollowbore Area are removed), and would have no apparent effect on the groundwater in downgradient monitoring wells located outside of the LNAPL plume (URS, 2005). Therefore, the LNAPL extraction system was shut down in 1996 and was removed. Based on the data, the LNAPL did not appear to be an immediate threat to human health and the environment (URS, 2005).

JFC conducted approximately bi-annual monitoring of the Area 1 LNAPL plume through 2009. This monitoring showed several feet of LNAPL in the monitoring wells located in Area 1. During the August 2017 event, Area 1 wells contained LNAPL at a maximum thickness of 9.5 feet (measured within well MW-27).

B.2.1.2 Area 2 – Oil-Water Separator Area

The Area 2 interim remediation system consisted of a hydraulic control system using a series of groundwater extraction wells perpendicular to and downgradient of the LNAPL layer. LNAPL was also manually bailed from wells within Area 2 (Dames & Moore, 1997). The system began operation in January 1995 and extracted 414,000 gallons of water and approximately 2,160 gallons of LNAPL (URS, 2005). The system was taken off-line when diesel fuel LNAPL appeared in well MW-12, because it was suspected that the extraction system was causing migration of the diesel product into the area (Dames & Moore, 1999).

While operating, the system did not lead to a decrease in hydraulic oil LNAPL thickness or reduction in dissolved-phase TPH-O measured in samples taken from wells in the oil-water

separator area. Continued operation of the system was not deemed practicable because the approach was not cost effective and was not resulting in a beneficial effect on groundwater quality (URS, 2005).

B.2.1.3 Area 3 – Former Underground Storage Tanks Area

During tank decommissioning and removal activities in 1991, approximately 66 cubic yards of soil were removed from three excavations. Following investigations and completion of an RI/FS, a treatment system using in situ air injection combined with in situ vapor extraction was operated beginning in 1993. The system included four injection wells and four extraction wells. The analytical results of groundwater samples collected between 1993 and 1996 indicated that the system was effective; TPH-G and BTEX concentrations were reduced with wells MW-3 and MW-4 to non-detectable levels (SECOR, 1997). A no further action determination was issued by Ecology on March 7, 2017.

B.2.2 Upland Cleanup Conducted Prior to Early Action Area Cleanup

In September 2013, soil around borings SB3 and SB4, located within Area 8 at the top of the shoreline bank at the center of the Site, was excavated and transported offsite for disposal. The excavation was completed to remove soil with elevated PCB and metals concentrations that could be exposed during future shoreline remediation activities and to minimize potential releases to the LDW after shoreline remediation. Activities included:

- SB3 and SB4 excavations were completed to 2 and 6 feet bgs, respectively.
- Excavation and off-site disposal of 1,156 tons of soil from around SB3 and SB4.
- Confirmation soil sampling at the excavation limits, including two sidewall and two base samples in the SB3 excavation and three sidewall and three base samples in the SB4 excavation. Samples were analyzed for PCBs, metals, and SVOCs.
- Backfill of the excavations with sand aggregate to grade.

During excavation the material encountered was described as "cemented aggregates mixed with metal debris, which the Contractor was unable to penetrate using an excavator equipped with a jackhammer" (SoundEarth, 2013). The same material was encountered within portions of both excavations.

Soil samples collected from the north sidewall and base of the SB3 excavation (samples JF-SB3NSW-130906 and JF-SB3BA1-130906) and north sidewall and base of the SB4 excavation (samples JF-SB4NSW-130909 and JF-SB4BA2-130909) contained total PCB concentrations between 0.21 and 4.9 mg/kg (SoundEarth, 2013). PCBs were not detected above the laboratory detection limits within the remaining samples.

Arsenic, chromium, copper, lead, and zinc were the most frequently detected metals in the confirmation samples and were detected in all samples. Arsenic detections ranged from 1.78 to 10.4 mg/kg, chromium detections ranged from 5.31 to 561 mg/kg, copper detections varied from 6.49 to 60.1 mg/kg, lead detections ranged from 1.52 to 360 mg/kg, and zinc detections varied from 16.2 to 136 mg/kg. The highest chromium detections (561 and 298 mg/kg) were in confirmation samples collected from the north sidewall of the SB3 excavation and south sidewall and base of the SB4 excavation, respectively.

Mercury and silver were not detected in any of the confirmation samples. Cadmium was detected in one confirmation sample taken from the base of the SB3 excavation (JF-SB3BA1-130906) just above the laboratory reporting limit.

PAHs were detected at relatively low concentrations in the confirmation samples. Indeno(1,2,3-cd)pyrene and benzo(b)fluoranthene were detected at the highest concentrations, with maximum concentrations of 0.53 and 0.79 mg/kg, respectively (measured in samples taken from the SB4 excavation).

During shoreline excavation activities completed within the Jorgensen Forge EAA (discussed within Section B.2.5), soil corresponding to sample JF-SB3BA1-130906 was overexcavated.

B.2.3 Upland Source Control Actions

After completion of the SCER, a number of BMPs were implemented by JFC to mitigate the potential migration of chemicals from the Site to the LDW, as described in the following sections.

B.2.3.1 Scrap Storage Bin Removal and Oil Drip Containment System Installation

The aboveground/belowground scrap storage bins and contained scrap and debris formerly located within Area 7 in the southwestern portion of the Site (Former Metal Storage Area) were removed in approximately 2008 to 2009. A magnet was used to remove the metal contents from the bins; however, rusting and compaction likely caused some metal to stick to the bin walls, preventing full removal (Turk, 2020). The concrete structures around the bins were removed to just below grade and covered back to grade with crushed rock. Following this removal, the former scrap storage bin area and adjacent unpaved areas along the southern facility boundary were paved to reduce the potential for migration of dust and dirt to paved surfaces and the stormwater drainage system.

Following removal of the bins, scrap metal was stored within Ecology block bins in the center part of this area on top of the south-sloping impervious surface. A concrete gutter surrounds the downslope edge of the area, and water that flows into the gutter is routed through a catch basin on the east side of the area to an adjacent oil-water separator. The oil-water separator has no discharge point; facility personnel monitor the separator water level after significant storm events and a vacuum truck removes the water for offsite disposal as necessary. Since closure of the Former Melt Shop in January 2015, scrap metal is no longer stored in this area; Star Forge loads the scrap directly into roll-off bins for offsite recycling.

B.2.3.2 Swarf Stockpile Area Relocation

The Swarf Stockpile Area was relocated to the newly paved area just east of the former scrap storage bins and west of the Billet Grinding Bag House (shown in Figure B-6) between 1990 and 1995 (within Area 8 at the southwest corner of Site). This relocation maintains the material farther from the LDW, within a better containment system, and directly adjacent to the railroad spur that is used for offsite disposal and recycling of this material. The relocated Swarf Stockpile Area is now on pavement surrounded on three sides by Ecology blocks and the nearest stormwater catch basin was plugged to prevent potential migration of this material into the stormwater drainage system. Star Forge also manages the off-site removal of the material to maintain a smaller quantity on the Site.

B.2.3.3 Removal of Steam Clean Area

In approximately 2008 to 2009, the Former Steam Clean Area west of the Laboratory was pressure-washed, demolished, and filled with concrete. The wash fluids were captured and were reportedly disposed of in an appropriate manner.

B.2.3.4 Replacement of Uncovered Storage Bins

Smaller uncovered storage bins that were used for production byproducts awaiting recycling were replaced with covered storage bins.

B.2.3.5 Tank Removal

The 3,000-gallon diesel tank was removed from the miscellaneous chemical storage area on the northwest corner of the Property and replaced with a 300-gallon diesel tank. The uncovered 300-gallon gasoline tank located just west of the laboratory was removed.

B.2.3.6 Other Best Management Practices

BMPs in place at the Site are outlined within the SWPPP (SoundEarth, 2015). The BMPs include, but are not limited to, operational source control BMPs such as good housekeeping, preventive maintenance, and employee training; structural source control BMPs such as locating material storage areas under cover and away from the stormwater conveyance system or utilizing grading, berming, and curbing; and treatment BMPs, such as utilizing filter sock inserts within catch basins and operating the treatment system.

B.2.4 Jorgensen Forge Outfall Site Source Control/Removal Actions

There have been four source control/removal actions completed pursuant to the JFOS Removal Order. All of the source control/removal actions have been performed to eliminate the potential for ongoing discharge of PCBs from the JFOS pipes to the LDW.

B.2.4.1 First Source Control Removal Action

The initial source control action was completed in 2011 and is described in the Jorgensen Forge Outfall Site Source Control Action Completion Report (Floyd | Snider, 2011). The action consisted of the following activities:

- Tidal study surface water sampling to record how water levels in manholes vary with the tidal stages of the LDW.
- Geoprobe investigation to collect soil and reconnaissance groundwater samples near and around the CMP section of the pipes.
- Pre-cleanout video survey of the pipes.
- Sealing the upstream end of the 24-inch pipe on the eastern portion of the Site to eliminate continued City of Tukwila runoff from entering the pipe.
- Sealing the pipes at their transition from clay to CMP to prevent tidal waters from entering the pipes.
- Sampling the solids within the pipes, manholes, and associated accessible laterals.
- Removing accumulated solids and cleaning the interior of the pipes and associated laterals and manholes by jet cleaning.
- Post-cleaning video survey to document the effectiveness of the cleaning.
- Sealing the pipes, manholes, and laterals.
- Managing and disposing of generated wastes.

According to Floyd | Snider, the "video inspection following cleanout of the clay pipes was considered to be a key performance metric documenting both removal of solids and pipe integrity following cleanout. EPA representatives observed the post-cleaning survey of all

the clay pipe sections. It was concluded that the pipes were sufficiently cleaned out and that the integrity of the clay pipes was sound" (Floyd | Snider, 2018).

B.2.4.2 Second Source Control Removal Action

The second source control action was conducted pursuant to the First Modification to the Removal Order from 2012 to 2013. The objective of the second removal action was to determine the extent of soil containing PCB concentrations above 1 mg/kg in the vicinity of the CMP portion of the JFOS pipes. A summary of the results of the investigation was presented in the Phase 2 Geoprobe Investigation Summary Report (Anchor QEA and Farallon, 2012) and the Technical Memorandum with the subject Results of Additional Soil Geoprobe Vertical Characterization at the Jorgensen Forge Outfall Site (Anchor QEA, 2013).

B.2.4.3 Third Source Control Removal Action

The third source control action was performed pursuant to the Second Modification to the Removal Order and was completed in 2014. The third source control action consisted of the following actions:

- Drilling and sampling four angled borings to define the west lateral extent of the PCB-contaminated soil greater than 1 mg/kg in the northwest corner of the Site where the JFOS pipes discharged. The west lateral extent of PCB contamination in the JFOS extended beyond the LDW top-of-bank line into the underbank area, which was situated within the Jorgensen Forge EAA; and
- Constructing an SSP cofferdam containment barrier within the Jorgensen Forge EAA adjacent to the northwestern corner of the Site. The purpose of the cofferdam was to eliminate the potential for PCBs in soils to a depth of 32 feet in the JFOS CMP area from migrating to the LDW during sediment remedial activities and to allow for the removal of contaminated shoreline bank soils directly west of the eastern wall of the cofferdam in the Jorgensen Forge EAA. The eastern boundary of the cofferdam was located at the top of the shoreline bank and effectively separated the JFOS from the Jorgensen EAA.

B.2.4.4 Fourth Source Control Removal Action

The fourth source control action was performed pursuant to the Third Modification to the Removal Order and was completed in two stages. Stage 1 was completed in 2015 and consisted of an unshored excavation (above water table to depth of approximately 12 feet bgs) to remove the eastern portions of the CMP and underlying contaminated soils. Stage 2 included installation of structural sheet pile shoring, removal of the remaining portion of the pipes, and excavation to depths of up to 32 feet bgs. According to the removal action completion report (Floyd | Snider, 2018), the PCB cleanup level of 1 mg/kg was met with the

exception of a small area (approximately 100 square feet at a depth of 32 feet bgs) in which confirmation samples contained PCBs at 1.10 mg/kg and 1.97 mg/kg (Floyd | Snider, 2018).

B.2.5 Jorgensen Forge Early Action Area

EMJ conducted a sediment removal action in the LDW adjacent to the Site in the summer of 2014. EMJ conducted the work under EPA AOC (EPA Docket No. 10-2013-0032). The work was coordinated with the sediment removal action conducted adjacent to the Boeing Plant 2. The scope of work included a pre-construction baseline survey, dredging, shoreline bank excavation, shoreline containment, in-water backfill, and pre- and post-construction sampling.

Activities included:

- Removal by dredging of approximately 15,750 cubic yards of non-hazardous sediment from five Dredge Management Units.
- Placement of approximately 19,200 tons of in-water backfill.
- Excavation of approximately 3,670 cubic yards of soil and debris from the Site shoreline. The excavation graded the approximately 540 linear feet of shoreline to a 3 Horizontal to 1 Vertical slope.
- Removal of debris, piles, and historical outfalls.

Placement of shoreline containment material, including approximately 3,330 tons of granular activated carbon amended filter material (1.5-foot layer), approximately 5,050 tons of light loose riprap armor material (2.5-foot layer), and approximately 1,520 tons of habitat substrate (0.50-foot layer).

Sediment quality monitoring activities included post-dredge/excavation sampling of the final sediment and shoreline (z-layer). Pre- and post-construction perimeter sampling was also performed to evaluate whether construction activities had impacted surface sediments adjacent to the removal area. Sample results indicated that area some areas of the Z-layer had concentrations of PCBs that exceeded the remediation action level (Farallon, 2021). A Supplemental EE/CA Work Plan was prepared by EMJ and submitted to EPA in November 2017 that identified data gaps in the surface and subsurface sediments and triggered data gap sampling in the sediments.

Data gap sampling was performed during December 2018 and March 2019 and included surface and subsurface sediment and porewater sampling (Farallon, 2021). Findings from the data gap sampling suggested that PCB concentrations identified in the post-construction surface sediment samples collected in 2014 were likely affected by a thin layer of sediments

that were suspended during dredging and redeposited following dredging and not representative of the undisturbed Z-layer.

Future work for the Jorgensen Forge EAA was recommended in the Supplemental EE/CA (Farallon, 2022). The recommended future work consists of targeted removal of PCB-impacted sediments along the maintenance channel boundary.

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Table B-1: Summary of Historical Investigation Points

Site Area	Location Name	Description	Year
Limited Site Characterization (Dames & Moore)			
Area 6/Area 8	5-1	Surface Sample	1990
Area 7/Area 8	9-1	Surface Sample	1990
Area 7	9-2	Surface Sample	1990
Area 7	9-3	Surface Sample	1990
Area 7	9-4	Surface Sample	1990
Area 6/Area 8	16-1	Surface Sample	1990
Area 6/Area 8	16-2	Surface Sample	1990
Area 7	17-1	Surface Sample	1990
Area 7	17-2	Surface Sample	1990
Area 7	17-3	Surface Sample	1990
Area 7	17-4	Surface Sample	1990
Area 9	DM-B-1	Boring	1990
Area 1	DM-B-2	Boring	1990
Area 1	DM-B-3	Boring	1990
Area 1	DM-B-4	Boring	1990
Area 1	DM-B-5	Boring	1990
Area 3	DM-B-6	Boring	1990
Area 3	DM-B-7	Boring	1990
Area 3	DM-B-8	Boring	1990
Area 4	DM-B-9	Boring	1990
Area 4	DM-B-10	Boring	1990
Area 4	DM-B-11	Boring	1990
Area 2	DM-B-12	Boring	1990
Area 2	DM-B-13	Boring	1990
Area 2	DM-B-14	Boring	1990
Area 6/Area 8	DM-B-15	Boring	1990
Area 6/Area 8	DM-B-16	Boring	1990
Area 9	DM-SB-1	Shallow Boring	1990
Area 9	DM-SB-2	Shallow Boring	1990
Area 9	MW-5	Monitoring Well	1990
Area 6/Area 8	MW-6	Monitoring Well	1990
Area 2	MW-7	Monitoring Well	1990
Initial Investigations (SEACOR)			
Area 2	B-1	Boring	1990
Area 2	B-2	Boring	1990
Area 1	B-3	Boring	1990
Area 1	B-4	Boring	1990
Area 1	B-5	Boring	1990
Area 1	HA1A	Hand Auger	1991
Area 1	HA1B	Hand Auger	1991
Area 1	HA2	Hand Auger	1991
Area 1	HA3	Hand Auger	1991
Area 2	HA4	Hand Auger	1990
Area 1	HA-5	Hand Auger	1991
Area 1	HA-6	Hand Auger	1991
Area 1	MW-1	Monitoring Well	1991
Area 2	MW-2	Monitoring Well	1991
Area 3	MW-3	Monitoring Well	1991

Table B-1: Summary of Historical Investigation Points

Site Area	Location Name	Description	Year
Area 3	MW-4	Monitoring Well	1991
Area 3	MW-8	Monitoring Well	1991
Area 1	JSA-HA-1	Hand Auger	1992
Area 4	SB9	Boring	1991
Area 3 Underground Storage Tank Removal Investigations (SEACOR)			
Area 3	T1-1	Excavation Sample	1991
Area 3	T1-2	Excavation Sample	1991
Area 3	T1-3	Excavation Sample	1991
Area 3	T2-4	Excavation Sample	1991
Area 3	T2-5	Excavation Sample	1991
Area 3	T2-6	Excavation Sample	1991
Area 3	T3-7	Excavation Sample	1991
Area 3	T3-8	Excavation Sample	1991
Area 3	T3-9	Excavation Sample	1991
Area 3	T2-10	Excavation Sample	1991
Area 3	T2-11	Excavation Sample	1991
Area 3	T2-12	Excavation Sample	1991
Area 3	T2-13	Excavation Sample	1991
Area 3	T3-14	Excavation Sample	1991
Area 3	T3-15	Excavation Sample	1991
Area 3	T3-16	Excavation Sample	1991
Area 3	T3-17	Excavation Sample	1991
Area 3	T3-18	Excavation Sample	1991
Remedial Investigations (SEACOR)			
Area 1	IB1	Boring	1992
Area 1	IB2	Boring	1992
Area 1	IB3	Boring	1992
Area 1	OB2	Boring	1992
Area 1	OB3	Boring	1992
Area 1	OB4	Boring	1992
Area 1	OB5	Boring	1992
Area 1	OB6	Boring	1992
Area 1	MW-9	Monitoring Well	1992
Area 4	MW-10	Monitoring Well	1992
Area 4	MW-11	Monitoring Well	1992
Area 2	MW-12	Monitoring Well	1992
Area 2	MW-13	Monitoring Well	1992
Area 2	MW-14	Monitoring Well	1992
Area 2	MW-15	Monitoring Well	1992
Area 1	MW-16	Monitoring Well	1992
Area 1	MW-17	Monitoring Well	1992
Area 1	MW-18	Monitoring Well	1992
Area 1	MW-19	Monitoring Well	1992
Area 1	MW-20	Monitoring Well	1992
Area 1	MW-21	Monitoring Well	1992
Area 1	MW-22	Monitoring Well	1992
Area 1	MW-23	Monitoring Well	1992
Area 1	MW-24	Monitoring Well	1992
Area 1	MW-25	Monitoring Well	1992

Table B-1: Summary of Historical Investigation Points

Site Area	Location Name	Description	Year
Area 4 - Subsurface Soil Assessment (SEACOR)			
Area 4	4SB1	Boring	1992
Area 4	4SB2	Boring	1992
Area 4	4SB3	Boring	1992
Area 4	4SB4	Boring	1992
Subsurface Diesel Investigation (SECOR)			
Area 2	SB-1	Probe Boring	1996
Area 2	SB-2	Probe Boring	1996
Area 2	SB-3	Probe Boring	1996
Area 2	SB-4	Probe Boring	1996
Area 2	SB-5	Probe Boring	1996
Area 2	SB-6	Probe Boring	1996
Area 2	SB-7	Probe Boring	1996
Area 2	SB-8	Probe Boring	1996
Area 2	SB-9	Probe Boring	1996
Area 2	SB-10	Probe Boring	1996
Area 2	SB-11	Probe Boring	1996
Area 2	SB-12	Probe Boring	1996
Aluminum Heat Treat Building Subsurface Investigation (Dames & Moore)			
Area 2	P-1	Probe Boring	1998
Area 2	P-2	Probe Boring	1998
Area 2	P-3	Probe Boring	1998
Area 2	P-4	Probe Boring	1998
Area 2	P-7	Probe Boring	1998
Area 2	P-8	Probe Boring	1998
Area 2	P-9	Probe Boring	1998
Additional Monitoring Well Installations (SEACOR)			
Area 1	MW-26	Monitoring Well	1993
Area 1	MW-27	Monitoring Well	1993
Area 1	MW-28	Monitoring Well	1993
Area 1	MW-29	Monitoring Well	1993
Area 1	MW-30	Monitoring Well	1994
Area 6	MW-31	Monitoring Well	1994
Area 2	MW-32	Monitoring Well	1994
Area 2	MW-33	Monitoring Well	1993
Area 2	MW-34	Monitoring Well	1993
Area 2	MW-35	Monitoring Well	1993
Area 2	MW-36*	Monitoring Well	Unknown
Administrative Order on Consent Second Phase Environmental Sampling (Anchor and Farallon)			
Area 8	CB1	Storm Solids - Catch Basin	2004
Area 6/Area 8	CB2	Storm Solids - Catch Basin	2004
Area 6	CB3	Storm Solids - Catch Basin	2004
Area 2	CB4	Storm Solids - Catch Basin	2004
Area 9	SB1	Probe Boring	2004
Area 8	SB2	Probe Boring	2004
Area 8	SB3	Probe Boring	2004
Area 8	SB4	Probe Boring	2004

Table B-1: Summary of Historical Investigation Points

Site Area	Location Name	Description	Year
Area 8	SB5	Probe Boring	2004
Area 7/Area 8	SB6	Probe Boring	2004
Area 7/Area 8	SB7	Probe Boring	2004
Capital Improvement Project Investigation (Anchor and Farallon)			
Area 5	FB-1	Probe Boring	2007
Area 1	FB-2	Probe Boring	2007
Area 5	FB-3	Probe Boring	2007
Data Gap Investigation (Anchor and Farallon)			
Area 6/Area 8	SB-13	Probe Boring	2009
Area 6/Area 8	SB-14	Probe Boring	2009
Area 6/Area 8	SB-15	Probe Boring	2009
Area 6/Area 8	SB-16	Probe Boring	2009
Area 6	SB-17	Probe Boring	2009
Area 6/Area 8	SB-18	Probe Boring	2009
Area 6	SB-19	Probe Boring	2009
Area 2	MW-37	Monitoring Well	2009
Area 7	MW-38	Monitoring Well	2009
Area 7/Area 8	MW-39	Monitoring Well	2009
Area 5	MW-40	Monitoring Well	2009
Area 5	MW-41	Monitoring Well	2009
Area 7/Area 8	MW-42	Monitoring Well	2009
Area 7/Area 8	MW-43	Monitoring Well	2009
Area 7/Area 8	MW-44	Monitoring Well	2009
Area 6	MW-45	Monitoring Well	2009
Area 6/Area 8	MW-46	Monitoring Well	2009
Area 8	MW-47	Monitoring Well	2009
Area 1	MW-48	Monitoring Well	2009
Area 1/Area 9	MW-49	Monitoring Well	2009
Area 9	MW-50	Monitoring Well	2009
Area 9	MW-51	Monitoring Well	2009
Area 9	MW-52	Monitoring Well	2009
Jorgensen Forge Outfall Site Corrugated Metal Pipe Investigation (Floyd | Snider)			
Area 9	T2B1	Probe Boring	2011
Area 9	T2B2	Probe Boring	2011
Area 9	T2B3	Probe Boring	2011
Area 9	T2B4	Probe Boring	2011
Area 9	T3B1	Probe Boring	2011
Area 9	T3B2	Probe Boring	2011
Area 9	T3B3	Probe Boring	2011
Area 9	T3B4	Probe Boring	2011
Area 9	T4B2	Probe Boring	2011
Area 9	T4B3	Probe Boring	2011
Area 9	T5B3	Probe Boring	2011
Jorgensen Forge Outfall Site Phase 2 Geoprobe Investigation (Anchor QEA)			
Area 9	JF-DGP1	Probe Boring	2012
Area 9	JF-DGP2	Probe Boring	2012
Area 9	JF-DGP3	Probe Boring	2012
Area 9	JF-DGP4	Probe Boring	2012

Table B-1: Summary of Historical Investigation Points

Site Area	Location Name	Description	Year
Area 9	JF-DGP5	Probe Boring	2012
Area 9	JF-DGP6	Probe Boring	2012
Area 9	JF-DGS1	Probe Boring	2012
Area 9	JF-DGS2	Probe Boring	2012
Area 9	JF-DGS3	Probe Boring	2012
Area 9	JF-DGT1	Probe Boring	2012
SB3/SB4 Upland Interim Action Confirmation Sampling (SoundEarth)			
Area 8	JF-SB3BA1-130906	Excavation Sample	2013
Area 8	JF-SB3BA2-130906	Excavation Sample	2013
Area 8	JF-SB3ESW-130906	Excavation Sample	2013
Area 8	JF-SB3NSW-130906	Excavation Sample	2013
Area 8	JF-SB4BA1-130909	Excavation Sample	2013
Area 8	JF-SB4BA2-130909	Excavation Sample	2013
Area 8	JF-SB4BA3-130909	Excavation Sample	2013
Area 8	JF-SB4ESW-130909	Excavation Sample	2013
Area 8	JF-SB4NSW-130909	Excavation Sample	2013
Area 8	JF-SB4SSW-130909	Excavation Sample	2013
Jorgensen Forge Early Action Area Removal Post Excavation Sampling (Anchor QEA)			
Area 9	PEB-1	Excavation Sample	2014
Area 9	PEB-2	Excavation Sample	2014
Area 9	PEB-3	Excavation Sample	2014
Area 8	PEB-4	Excavation Sample	2014
Area 8	PEB-5	Excavation Sample	2014
Area 8	PEB-6	Excavation Sample	2014
Boeing Resource Conservation and Recovery Act Facility Investigations (Weston)			
Area 9	SB-07201	Probe Boring	1994
Area 9	SB-07202	Probe Boring	1994
Area 9	SB-07210	Probe Boring	1994
Area 1/Area 9	SB-08916	Probe Boring	1994
Area 1/Area 9	SB-08918	Probe Boring	1994
Area 1/Area 9	SB-08921	Probe Boring	1994
Area 1/Area 9	SB-08923	Probe Boring	1994
Area 9	SB-09101	Probe Boring	1994
Area 9	SB-09105	Probe Boring	1994
Area 9	SB-09106	Probe Boring	1994
Area 1/Area 9	SB-09107	Probe Boring	1994
Area 9	GP-06601	Probe Boring	1994
Area 9	GP-06602	Probe Boring	1994
Area 9	GP-06603	Probe Boring	1994
Area 9	GP-06604	Probe Boring	1994
Area 9	GP-06633	Probe Boring	1994
Area 9	GP-06634	Probe Boring	1994
Area 8	GP-06635	Probe Boring	1994
Area 9	GP-06636	Probe Boring	1994
Area 1/Area 9	GP-08901	Probe Boring	1994
Area 1/Area 9	GP-08902	Probe Boring	1994
Area 1/Area 9	GP-08903	Probe Boring	1994
Area 1/Area 9	GP-08904	Probe Boring	1994
Area 1/Area 9	GP-08905	Probe Boring	1994

Table B-1: Summary of Historical Investigation Points

Site Area	Location Name	Description	Year
Area 1	GP-08906	Probe Boring	1994
Area 1	GP-08907	Probe Boring	1994
Area 9	GP-09101	Probe Boring	1994
Area 9	GP-09102	Probe Boring	1994
Area 9	GP-09103	Probe Boring	1994
Area 6	GP-09104	Probe Boring	1994
Area 6	GP-09105	Probe Boring	1994
Area 9	SB-07206	Probe Boring	1995
Area 9	GP-06637	Probe Boring	1995
Area 9	GP-06638	Probe Boring	1995
Area 9	GP-06639	Probe Boring	1995
Area 6	GP-06640	Probe Boring	1995
Area 1/Area 9	GP-08908	Probe Boring	1995
Area 1	GP-09106	Probe Boring	1995
Area 6	GP-09107	Probe Boring	1995
Area 6	GP-09108	Probe Boring	1995
Area 6	GP-09109	Probe Boring	1995
Area 6	GP-09110	Probe Boring	1995
Area 6	GP-09111	Probe Boring	1995
Area 6	GP-09112	Probe Boring	1995
Area 6/Area 8	GP-09113	Probe Boring	1995
Area 6/Area 8	GP-09114	Probe Boring	1995
Area 8	GP-09115	Probe Boring	1995
Area 9	PL2-JF01A*	Monitoring Well	Unknown
Area 9	PL2-JF01B	Monitoring Well	1995
Area 9	PL2-JF02A	Monitoring Well	1995
Area 8	PL2-JF03A	Monitoring Well	1995
Area 9	PL2-JF01AR	Monitoring Well	2001
Area 9	PL2-JF01C	Monitoring Well	2001
Boeing Plant 2 Phase I Transformer Investigation (Floyd Snider McCarthy)			
Area 9	SB-07220	Probe Boring	2003
Area 9	SB-07228	Probe Boring	2003
Area 9	SB-07229	Probe Boring	2003
Area 9	SB-07230	Probe Boring	2003
Area 9	SB-07231	Probe Boring	2003
Area 9	SB-07232	Probe Boring	2003
Area 9	SB-07233	Probe Boring	2003
Area 9	SB-07234	Probe Boring	2003
Area 9	SB-07235	Probe Boring	2003
Area 9	SB-07236	Probe Boring	2003
Area 9	SB-07237	Probe Boring	2003
Area 9	SB-07238	Probe Boring	2003
Area 9	SB-07239	Probe Boring	2003
Area 9	SB-07242	Probe Boring	2003
Area 9	SB-07243	Probe Boring	2003
Area 9	SB-07244	Probe Boring	2003
Area 9	SB-07245	Probe Boring	2003
Area 9	SB-07246	Probe Boring	2003
Area 9	SB-07247	Probe Boring	2003

Table B-1: Summary of Historical Investigation Points

Site Area	Location Name	Description	Year
Boeing Plant 2 Phase II Transformer Investigation (Weston)			
Area 9	SB-07229r	Probe Boring	2005
Area 9	SB-07230r	Probe Boring	2005
Area 9	SB-07231r	Probe Boring	2005
Area 9	SB-07232r	Probe Boring	2005
Area 9	SB-07233r	Probe Boring	2005
Area 9	SB-07249	Probe Boring	2005
Area 9	SB-07250	Probe Boring	2005
Area 9	SB-07251	Probe Boring	2005
Area 9	SB-07252	Probe Boring	2005
Area 9	SB-07253	Probe Boring	2005
Area 9	PL2-JF04A	Monitoring Well	2005
Boeing Other Area 11 (OA-11) Investigation (Floyd | Snider)			
Area 9	OA11-DP09	Probe Boring	2016
Area 9	OA11-DP10	Probe Boring	2016
Area 9	OA11-DP11	Probe Boring	2016
Boeing OA-11 Interim Measure Excavation Samples (Floyd | Snider)			
Area 9	OA11-ex-S1	Excavation Sample	2016
Area 9	OA11-ex-S2	Excavation Sample	2016
Area 9	OA11-ex-S7	Excavation Sample	2016
Area 9	OA11-ex-S8	Excavation Sample	2016
Area 9	OA11-ex-S10	Excavation Sample	2016
Boeing OA-11 Investigation (Floyd | Snider)			
Area 9	JF-DP01	Probe Boring	2017
Area 9	JF-DP02	Probe Boring	2017
Area 9	JF-DP03	Probe Boring	2017
Area 9	JF-DP04	Probe Boring	2017
Area 9	JF-DP05	Probe Boring	2017
Area 9	JF-DP06	Probe Boring	2017
Area 9	JF-DP07	Probe Boring	2017
Area 9	JF-DP08	Probe Boring	2017
Area 9	JF-DP09	Probe Boring	2017
Area 9	JF-DP10	Probe Boring	2017
Area 9	JF-DP11	Probe Boring	2017
Area 9	JF-DP12	Probe Boring	2017
Area 9	JF-DP13	Probe Boring	2017

NOTE:

* Unknown who completed the investigation.

Table B-2: Petroleum Hydrocarbons and BTEX in Soil

Sample Location	Sample Date	Sample Depth	Petroleum Hydrocarbons (milligrams per kilogram)					BTEX (milligrams per kilogram)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Hydraulic Fluids	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	Hydraulic	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
Area 1													
B-3	12/12/1990	7.5'	—	—	—	—	**77,000**	0.1 U	0.1 U	—	—	0.1 U	0.1 U
B-3	12/12/1990	10'	—	—	—	—	**3.5**	0.1 U	0.1 U	—	—	0.1 U	0.1 U
B-4	12/12/1990	10'	—	—	—	—	**15**	0.1 U	0.1 U	—	—	0.1 U	0.1 U
* DM-B-2	02/28/1990	11'	—	—	—	—	6 U	—	—	—	—	—	—
DM-B-3	02/28/1990	11'	—	—	—	—	6 U	—	—	—	—	—	—
DM-B-4	02/28/1990	11'	—	—	—	—	**4,100**	—	—	—	—	—	—
DM-B-5	02/28/1990	8'	—	—	—	—	**13,000**	—	—	—	—	—	—
FB-2	10/17/2007	1'-3'	54 U	—	—	**40,000**	—	0.022 U	0.11 U	—	—	0.11 U	0.11 U
FB-2	10/17/2007	3'-5'	61 U	—	—	**150,000**	—	0.024 U	0.12 U	—	—	0.12 U	0.12 U
HA1B	01/24/1991	7.2'	—	—	—	—	**14**	—	—	—	—	—	—
HA2	01/24/1991	7.2'	—	—	—	—	**39,000**	—	—	—	—	—	—
HA3	01/24/1991	10.3'	—	—	—	—	**11,000**	—	—	—	—	—	—
IB1	08/29/1992	1.5'-2'	—	—	—	—	**6,100**	—	—	—	—	—	—
IB2	08/29/1992	4'-6'	—	—	—	—	**15,000**	—	—	—	—	—	—
IB2	08/29/1992	9'-9.5'	—	—	—	—	**33,000**	—	—	—	—	—	—
IB3	08/29/1992	1.5'-2'	—	—	—	—	**49,000**	—	—	—	—	—	—
IB3	08/29/1992	5.5'-6'	—	—	—	—	10 U	—	—	—	—	—	—
IB3	08/29/1992	9'-9.5'	—	—	—	—	**12,000**	—	—	—	—	—	—
MW-16	08/29/1992	1.5'-2'	—	—	—	—	10 U	—	—	—	—	—	—
MW-16	08/29/1992	5.5'-6'	—	—	—	—	10 U	—	—	—	—	—	—
MW-16	08/29/1992	8.5'-9'	**480**	—	—	—	10 U	—	—	—	—	—	—
MW-16	08/29/1992	10.5'-11'	—	—	—	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U
MW-17	08/29/1992	1.5'-2'	—	—	—	—	**400**	—	—	—	—	—	—
MW-18	08/29/1992	1'-1.5'	—	—	—	—	10 U	—	—	—	—	—	—
MW-18	08/29/1992	5.5'-6'	—	—	—	—	10 U	—	—	—	—	—	—
MW-18	08/29/1992	10.5'-11'	—	—	—	—	10 U	—	—	—	—	—	—
MW-19	08/28/1992	1'-1.5'	—	—	—	—	**41**	—	—	—	—	—	—
MW-19	08/28/1992	7.5'-8'	—	—	—	—	**44**	—	—	—	—	—	—
MW-19	08/28/1992	9'-9.5'	—	—	—	—	**1,600**	—	—	—	—	—	—
MW-20	08/28/1992	1.5'-2'	—	—	—	—	10 U	—	—	—	—	—	—
MW-20	08/28/1992	6'-6.5'	—	—	—	—	10 U	—	—	—	—	—	—
MW-20	08/28/1992	10.5'-11'	—	—	—	—	**15,000**	—	—	—	—	—	—
MW-21	08/28/1992	1.5'-2'	—	—	—	—	**710**	—	—	—	—	—	—
MW-21	08/28/1992	5.5'-6'	—	—	—	—	**400**	—	—	—	—	—	—
MW-21	08/28/1992	9.5'-10'	—	—	—	—	**76**	—	—	—	—	—	—
MW-22	08/28/1992	2'-2.5'	—	—	—	—	10 U	—	—	—	—	—	—
MW-22	08/28/1992	5'-5.5'	—	—	—	—	10 U	—	—	—	—	—	—
MW-22	08/28/1992	9.5'-10'	—	—	—	—	10 U	—	—	—	—	—	—
* MW-23	08/28/1992	2'-2.5'	—	—	—	—	10 U	—	—	—	—	—	—
* MW-23	08/28/1992	5'-5.5'	—	—	—	—	10 U	—	—	—	—	—	—
* MW-23	08/28/1992	9.5'-10'	—	—	—	—	10 U	—	—	—	—	—	—
* MW-24	09/14/1992	3.5'-4'	—	—	—	—	10 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U
* MW-24	09/14/1992	8.5'-9'	—	—	—	—	10 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U
* MW-24	09/14/1992	10.5'-11'	—	—	—	—	**12**	—	—	—	—	—	—
MW-25	09/14/1992	3.5'-4'	—	—	—	—	10 U	—	—	—	—	—	—
MW-25	09/14/1992	8'-8.5'	—	—	—	—	**10**	0.1 U	0.1 U	—	—	0.1 U	0.1 U
MW-25	09/14/1992	11'-11.5'	—	—	—	—	10 U	—	—	—	—	—	—
MW-30	01/30/1994	4.5'-5'	**10**	—	—	**37**	—	—	—	—	—	—	—

DRAFT FOR PUBLIC COMMENT

Table B-2: Petroleum Hydrocarbons and BTEX in Soil

Sample Location	Sample Date	Sample Depth	Petroleum Hydrocarbons (milligrams per kilogram)					BTEX (milligrams per kilogram)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Hydraulic Fluids	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	Hydraulic	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
MW-30	01/30/1994	9'-9.5'	**21**	—	—	**80**	—	—	—	—	—	—	—
MW-48	02/12/2009	6'	29 U	5.6 U	—	**150**	—	0.00084 U	0.00084 U	—	—	0.0042 U	0.0017 U
MW-48	02/12/2009	10.5'	32 U	6.8 U	—	64 U	—	0.0011 U	0.0011 U	—	—	0.0054 U	0.0021 U
MW-48	02/12/2009	15.5'	32 U	6.5 U	—	64 U	—	0.001 U	0.001 U	—	—	0.0051 U	0.002 U
OB2	08/28/1992	2'-2.5'	—	—	—	—	10 U	—	—	—	—	—	—
OB2	08/28/1992	5'-5.5'	—	—	—	—	**120,000**	—	—	—	—	—	—
OB2	08/28/1992	8'-8.5'	—	—	—	—	**110,000**	—	—	—	—	—	—
OB3	08/31/1992	2'-2.5'	—	—	—	—	**1,000**	—	—	—	—	—	—
OB3	08/31/1992	5'-5.5'	—	—	—	—	10 U	—	—	—	—	—	—
OB3	08/31/1992	8'-8.5'	—	—	—	—	10 U	—	—	—	—	—	—
OB4	08/31/1992	2'-2.5'	—	—	—	—	**200**	—	—	—	—	—	—
OB4	08/31/1992	5'-5.5'	—	—	—	—	**16,000**	—	—	—	—	—	—
OB4	08/31/1992	9'-9.5'	**1,600**	—	—	—	**46,000**	—	—	—	—	—	—
OB5	08/31/1992	2'-2.5'	—	—	—	—	10 U	—	—	—	—	—	—
OB5	08/31/1992	5'-5.5'	—	—	—	—	**14**	—	—	—	—	—	—
OB5	08/31/1992	9.5'-10'	—	—	—	—	**19,000**	—	—	—	—	—	—
OB6	08/31/1992	2'-2.5'	—	—	—	—	10 U	—	—	—	—	—	—
OB6	08/31/1992	5'-5.5'	—	—	—	—	**18**	—	—	—	—	—	—
OB6	08/31/1992	9.5'-10'	—	—	—	—	10 U	—	—	—	—	—	—
* SB-08916	09/13/1994	2'	—	—	—	—	—	0.0011 U	0.0011 U	—	—	0.0011 U	0.0022 U
* SB-08916	09/13/1994	5'	—	—	—	—	—	0.0013 U	0.0013 U	—	—	**0.0015**	0.0025 U
* SB-08916	09/13/1994	12.5'	—	—	—	—	—	0.0013 U	0.0013 U	—	—	0.0013 U	0.0027 U
* SB-08918	09/13/1994	2'	—	—	—	—	—	0.0011 U	0.0011 U	—	—	0.0011 U	0.0022 U
* SB-08918	09/13/1994	5'	—	—	—	—	—	0.0012 U	0.0012 U	—	—	**0.002**	0.0023 U
* SB-08918	09/13/1994	12.5'	—	—	—	—	—	0.0013 U	0.0013 U	—	—	0.0013 U	0.0026 U
* SB-08921	09/13/1994	2'	—	—	—	—	—	0.001 U	0.001 U	—	—	0.001 U	0.0021 U
* SB-08921	09/13/1994	5'	—	—	—	—	—	0.001 U	0.001 U	—	—	0.001 U	0.0021 U
* SB-08921	09/13/1994	12.5'	—	—	—	—	—	0.0013 U	0.0013 U	—	—	0.0013 U	0.0026 U
* SB-08923	09/13/1994	2'	—	—	—	—	—	0.0011 U	0.0011 U	—	—	0.0011 U	0.0022 U
* SB-08923	09/13/1994	5'	—	—	—	—	—	0.0012 U	0.0012 U	—	—	0.0012 U	0.0025 U
* SB-08923	09/13/1994	12.5'	—	—	—	—	—	0.0013 U	0.0013 U	—	—	0.0013 U	0.0026 U
* SB-09107	03/10/1995	3.5'	—	—	—	—	10 U	—	—	—	—	—	—
* SB-09107	03/10/1995	5.5'	—	—	—	—	15 U	—	—	—	—	—	—
* SB-09107	03/10/1995	8.5'	—	—	—	—	16 U	—	—	—	—	—	—
Area 2													
B-1	12/12/1990	7'-8.5'	—	**3.5**	—	—	**31,000**	0.1 U	0.1 U	—	—	0.1 U	0.1 U
B-1	12/12/1990	10'	—	1 U	—	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U
B-2	12/12/1990	5'	—	—	—	—	1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U
B-2	12/12/1990	10'	—	—	—	—	**26**	0.1 U	0.1 U	—	—	0.1 U	0.1 U
DM-B-12	03/01/1990	13.5'	—	—	—	—	**870**	—	—	—	—	—	—
DM-B-13	03/01/1990	13.5'	—	—	—	—	6 U	—	—	—	—	—	—
DM-B-14	03/01/1990	10.5'	—	—	—	—	6 U	—	—	—	—	—	—
HA4	12/12/1990	9.2'	—	—	—	—	**29**	—	—	—	—	—	—
MW-12	08/27/1992	6'-6.5'	—	—	—	—	10 U	—	—	—	—	—	—
MW-12	08/27/1992	9'-9.5'	—	—	—	—	10 U	—	—	—	—	—	—
MW-13	08/27/1992	6'-6.5'	—	—	—	—	10 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U
MW-13	08/27/1992	9'-9.5'	—	—	—	—	10 U	—	—	—	—	—	—
MW-14	08/27/1992	6'-6.5'	—	—	—	—	10 U	—	—	—	—	—	—
MW-14	08/27/1992	9'-9.5'	—	—	—	—	10 U	—	—	—	—	—	—

Table B-2: Petroleum Hydrocarbons and BTEX in Soil

Sample Location	Sample Date	Sample Depth	Petroleum Hydrocarbons (milligrams per kilogram)					BTEX (milligrams per kilogram)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Hydraulic Fluids	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	Hydraulic	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
MW-15	08/27/1992	6'-6.5'	—	—	—	—	10 U	—	—	—	—	—	—
MW-15	08/27/1992	9'-9.5'	—	—	—	—	10 U	—	—	—	—	—	—
MW-32	12/05/1994		—	**13**	—	—	—	—	0.1 U	—	—	0.1 U	**0.3**
MW-32	12/08/1994		**33**	—	—	100 U	—	0.05 U	—	—	—	—	—
MW-33	12/05/1994		—	**9,400**	—	—	—	**0.16**	**52.2**	—	—	**25.4**	**192**
MW-33	12/08/1994		**308**	—	—	100 U	—	—	—	—	—	—	—
MW-37	02/09/2009	6'	**85**	**18**	—	**740**	—	0.02 U	0.054 U	—	—	0.054 U	**0.26**
MW-37	02/09/2009	11'	28 U	4.8 U	—	**86**	—	0.00074 U	0.00074 U	—	—	0.0037 U	0.0015 U
MW-37	02/09/2009	15.5'	28 U	4.8 U	—	**220**	—	0.00082 U	0.00082 U	—	—	0.0041 U	**0.0025**
P-1	12/23/1998	7'-10'	**6,400**	—	—	40 U	—	—	—	—	—	—	—
P-2	12/23/1998	7'-10'	**530**	—	—	40 U	—	—	—	—	—	—	—
P-3	12/23/1998	7'-10'	**14,000**	—	—	40 U	—	—	—	—	—	—	—
P-4	12/23/1998	7'-10'	**15,000**	—	—	40 U	—	—	—	—	—	—	—
P-7	12/23/1998	7'-10'	**34**	—	—	40 U	—	—	—	—	—	—	—
SB-1	08/05/1996	3'	**11**	—	**61**	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-1	08/05/1996	9'	**32,400**	—	3000 U	—	—	0.0625 U	**2.13**	—	—	**0.194**	**10.2**
SB-1	08/05/1996	10.5'	**122**	—	**78**	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-2	08/05/1996	3'	5 U	—	**46**	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-2	08/05/1996	7.5'	**13,400**	—	750 U	—	—	0.0625 U	**0.14**	—	—	0.0625 U	**1.49**
SB-2	08/05/1996	9'	**77,500**	—	5,000 U	—	**69,300**	0.25 U	**2.03**	—	—	**1.34**	**9.45**
SB-3	08/05/1996	3'	10 U	—	**125**	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-3	08/05/1996	9'	**300**	—	**92**	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-3	08/05/1996	10.5'	**6,700**	—	700 U	—	—	0.0625 U	**0.608**	—	—	0.0625 U	**3.22**
SB-4	08/05/1996	4'	**75**	—	**57**	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-4	08/05/1996	8.5'	**67,000**	—	5,500 U	—	—	**0.289**	**2.49**	—	—	**3.32**	**18.7**
SB-4	08/05/1996	10'	**968**	—	100 U	—	—	0.0625 U	0.0625 U	—	—	0.0625 U	**0.184**
SB-5	08/05/1996	3.5'	**63**	—	50 U	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-5	08/05/1996	7'	**954**	—	450 U	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-5	08/05/1996	8.5'	**15,700**	—	1,500 U	—	—	0.05 U	**0.258**	—	—	0.05 U	**1.07**
SB-6	08/05/1996	4'	35 U	—	**662**	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-6	08/05/1996	8.5'	**17,400**	—	1,500 U	—	—	0.05 U	**0.74**	—	—	**0.433**	**4.56**
SB-7	08/05/1996	3'	10 U	—	60 U	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-7	08/05/1996	7'	**95**	—	60 U	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-7	08/05/1996	8.5'	**7,180**	—	500 U	—	—	0.025 U	**0.17**	—	—	0.025 U	**0.58**
SB-8	08/05/1996	3'	**16**	—	**33**	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-8	08/05/1996	7.5'	**43,500**	—	**3300**	—	—	1 U	**6.22**	—	—	**3.13**	**34.2**
SB-8	08/05/1996	9'	**283**	—	60 U	—	—	0.025 U	0.025 U	—	—	0.025 U	**0.144**
SB-9	08/06/1996	3'	**4,800**	—	400 U	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-9	08/06/1996	8'	**46,200**	—	**3400**	—	—	0.25 U	**3.11**	—	—	**1.01**	**20.8**
SB-9	08/06/1996	9.5'	**47,100**	—	3,100 U	—	—	0.25 U	**3.78**	—	—	**3.28**	**22.1**
SB-10	08/06/1996	3'	**11**	—	**188**	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-10	08/06/1996	9.5'	100 U	—	600 U	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-10	08/06/1996	11'	**429**	—	80 U	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-11	08/06/1996	2.5'	10 U	—	60 U	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-11	08/06/1996	7'	**5,020**	—	900 U	—	—	0.005 U	0.005 U	—	—	0.005 U	**0.021**
SB-11	08/06/1996	8.5'	**417**	—	**122**	—	—	0.005 U	0.005 U	—	—	0.005 U	**0.02**
SB-12	08/06/1996	1'	5 U	—	**56**	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U
SB-12	08/06/1996	8.5'	10 U	—	**113**	—	—	0.005 U	0.005 U	—	—	0.005 U	0.005 U

Table B-2: Petroleum Hydrocarbons and BTEX in Soil

Sample Location	Sample Date	Sample Depth	Petroleum Hydrocarbons (milligrams per kilogram)					BTEX (milligrams per kilogram)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Hydraulic Fluids	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	Hydraulic	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
Area 3													
DM-B-6	03/01/1990	8'	—	—	—	—	6 U	**0.05**	**0.1**	—	—	**0.07**	**0.68**
DM-B-7	03/01/1990	13'	—	—	—	—	6 U	0.04 U	0.04 U	—	—	0.04 U	0.04 U
T1-1	03/12/1991	10'	—	1 U	—	—	—	0.1 U	0.05 U	—	—	0.1 U	0.1 U
T1-2	03/12/1991	10'	—	1 U	—	—	—	0.1 U	0.05 U	—	—	0.1 U	0.1 U
T1-3	03/12/1991	10'	—	**2.2**	—	—	—	0.1 U	0.05 U	—	—	0.1 U	0.1 U
T2-10	03/12/1991	9.5'	—	**1,500**	—	**960**	—	0.1 U	**10**	—	—	**12**	**99**
T2-11	03/12/1991	9.5'	—	1 U	—	**44**	—	0.1 U	0.05 U	—	—	0.1 U	0.1 U
T2-12	03/12/1991	9.5'	—	1 U	—	5 U	—	0.1 U	0.05 U	—	—	0.1 U	0.1 U
T2-13	03/12/1991	9.5'	—	1 U	—	5 U	—	0.1 U	0.05 U	—	—	0.1 U	—
T2-4	03/12/1991	10'	—	**86**	—	**45**	—	0.1 U	**1.2**	—	—	0.1 U	**8**
T3-14	03/12/1991	8.5'	—	**1.5**	—	**11**	—	0.1 U	0.05 U	—	—	0.1 U	0.1 U
T3-15	03/12/1991	8.5'	—	1 U	—	5 U	—	0.1 U	0.05 U	—	—	0.1 U	0.1 U
T3-16	03/12/1991	9'	—	1 U	—	5 U	—	0.1 U	0.05 U	—	—	0.1 U	0.1 U
T3-17	03/12/1991	8.5'	—	1 U	—	5 U	—	0.1 U	0.05 U	—	—	0.1 U	0.1 U
T3-8	03/12/1991	10'	—	**180**	—	**130**	—	**0.12**	**0.91**	—	—	**1.1**	**4**
Area 4													
4SB2	11/01/1992	9'-9.5'	—	—	—	—	ND	0.1 U	0.1 U	—	—	0.1 U	0.1 U
4SB3	11/01/1992	9'-9.5'	—	—	—	—	ND	—	—	—	—	—	—
4SB4	11/01/1992	6'-6.5'	—	—	—	—	ND	0.1 U	0.1 U	—	—	0.1 U	0.1 U
4SB4	11/01/1992	9'-9.5'	—	—	—	—	ND	—	—	—	—	—	—
DM-B-9	03/01/1990	16'	—	—	—	—	6 U	—	—	—	—	—	—
DM-B-10	03/01/1990	8'	—	—	—	—	**12**	—	—	—	—	—	—
DM-B-11	03/01/1990	11'	—	—	—	—	6 U	—	—	—	—	—	—
MW-10	03/19/1992	7'-8.5'	—	—	—	—	**34**	—	—	—	—	—	—
SB9	10/10/1991	8'-8.7'	—	—	—	—	**14,000**	—	—	—	—	—	—
SB9	10/10/1991	10'-11'	—	—	—	—	10 U	—	—	—	—	—	—
Area 5													
FB-1	10/17/2007	6'-8'	54 U	22 U	—	110 U	—	—	—	—	—	—	—
FB-1	10/17/2007	8'-10'	57 U	23 U	—	110 U	—	—	—	—	—	—	—
FB-3	10/17/2007	1'-3'	56 U	22 U	—	110 U	—	—	—	—	—	—	—
FB-3	10/17/2007	3'-5'	78 U	—	—	**140,000**	—	0.031 U	0.78 U	—	—	0.16 U	**2.3**
MW-41	07/19/2008	5'	26 U	3.2 U	—	51 U	—	0.02 U	0.032 U	—	—	0.032 U	0.032 U
MW-41	07/19/2008	10'	26 U	3.5 U	—	53 U	—	0.02 U	0.035 U	—	—	0.035 U	0.035 U
MW-41	07/19/2008	20'	30 U	3.6 U	—	60 U	—	0.02 U	0.036 U	—	—	0.036 U	0.036 U
MW-41	07/19/2008	30'	33 U	5.3 U	—	65 U	—	0.02 U	0.053 U	—	—	0.053 U	0.053 U
Area 6													
MW-31	01/30/1994	5'-5.5'	10 U	—	—	25 U	—	—	—	—	—	—	—
MW-31	01/30/1994	9.5'-10'	10 U	—	—	25 U	—	—	—	—	—	—	—
MW-45	02/05/2009	11'	32 U	6.7 U	—	63 U	—	0.02 U	0.067 U	—	—	0.067 U	0.067 U
MW-45	02/05/2009	17'	31 U	6.1 U	—	62 U	—	0.02 U	0.061 U	—	—	0.061 U	0.061 U
MW-45	02/05/2009	29'	30 U	5.3 U	—	60 U	—	0.02 U	0.053 U	—	—	0.053 U	0.053 U
MW-45	02/05/2009	40'	32 U	5.1 U	—	63 U	—	0.02 U	0.051 U	—	—	0.051 U	0.051 U
MW-46	02/11/2009	6.5'	28 U	11 U	—	56 U	—	0.001 U	0.001 U	—	—	0.0052 U	0.0021 U
MW-46	02/11/2009	10.5'	34 U	14 U	—	68 U	—	0.0011 U	**0.0013**	—	—	0.0056 U	**0.0012**
MW-46	02/11/2009	16.5'	31 U	6.7 U	—	63 U	—	0.001 U	0.001 U	—	—	0.0052 U	0.0021 U

Table B-2: Petroleum Hydrocarbons and BTEX in Soil

Sample Location	Sample Date	Sample Depth	Petroleum Hydrocarbons (milligrams per kilogram)					BTEX (milligrams per kilogram)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Hydraulic Fluids	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	Hydraulic	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
Area 7													
MW-38	02/09/2009	5'	29 U	5.6 U	—	59 U	—	0.02 U	0.056 U	—	—	0.056 U	0.056 U
MW-38	02/09/2009	9.5'	69 U	5.1 U	—	**450**	—	0.02 U	0.051 U	—	—	0.051 U	0.051 U
MW-38	02/09/2009	15.5'	33 U	7 U	—	67 U	—	0.02 U	0.07 U	—	—	0.07 U	0.07 U
* MW-39	02/11/2009	6.3'	**140**	5.2 U	—	**840**	—	0.02 U	0.052 U	—	—	0.052 U	0.052 U
* MW-39	02/11/2009	10'	29 U	7.9 U	—	**100**	—	0.02 U	0.079 U	—	—	0.079 U	0.079 U
* MW-44	02/05/2009	5'	28 U	5.8 U	—	55 U	—	0.02 U	0.058 U	—	—	0.058 U	0.058 U
* MW-44	02/05/2009	9'	31 U	6 U	—	63 U	—	0.02 U	0.06 U	—	—	0.06 U	0.06 U
* MW-44	02/05/2009	15'	32 U	5 U	—	64 U	—	0.02 U	0.05 U	—	—	0.05 U	0.05 U
* MW-44	02/05/2009	28'	28 U	4.7 U	—	56 U	—	0.02 U	0.047 U	—	—	0.047 U	0.047 U
* MW-44	02/05/2009	45'	31 U	5.9 U	—	63 U	—	0.02 U	0.059 U	—	—	0.059 U	0.059 U
* MW-44	02/05/2009	60'	32 U	6.6 U	—	64 U	—	0.02 U	0.066 U	—	—	0.066 U	0.066 U
Area 8													
* MW-39	02/11/2009	6.3'	**140**	5.2 U	—	**840**	—	0.02 U	0.052 U	—	—	0.052 U	0.052 U
* MW-39	02/11/2009	10'	29 U	7.9 U	—	**100**	—	0.02 U	0.079 U	—	—	0.079 U	0.079 U
* MW-44	02/05/2009	5'	28 U	5.8 U	—	55 U	—	0.02 U	0.058 U	—	—	0.058 U	0.058 U
* MW-44	02/05/2009	9'	31 U	6 U	—	63 U	—	0.02 U	0.06 U	—	—	0.06 U	0.06 U
* MW-44	02/05/2009	15'	32 U	5 U	—	64 U	—	0.02 U	0.05 U	—	—	0.05 U	0.05 U
* MW-44	02/05/2009	28'	28 U	4.7 U	—	56 U	—	0.02 U	0.047 U	—	—	0.047 U	0.047 U
* MW-44	02/05/2009	45'	31 U	5.9 U	—	63 U	—	0.02 U	0.059 U	—	—	0.059 U	0.059 U
* MW-44	02/05/2009	60'	32 U	6.6 U	—	64 U	—	0.02 U	0.066 U	—	—	0.066 U	0.066 U
Area 9													
DM-B-1	03/01/1990	11'	—	—	—	—	6 U	0.04 U	0.04 U	—	—	0.04 U	0.04 U
DM-SB-1	03/01/1990	0'-3.5'	—	—	—	—	6 U	0.0025 U	0.0025 U	—	—	0.0025 U	0.0025 U
DM-SB-2	03/01/1990	0'-3.5'	—	—	—	—	**20**	0.0025 U	0.0025 U	—	—	0.0025 U	0.0025 U
JF-DGP2	03/29/2012	2'-2'	—	—	—	—	—	**0.0015**	0.0011 U	0.0011 U	0.0011 U	**0.0005 J**	0 U
JF-DGP2	03/29/2012	16'	—	—	—	—	—	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0 U
JF-DGP2	03/29/2012	26'-26'	—	—	—	—	—	0.0012 U	0.0012 U	0.0012 U	0.0012 U	**0.001 J**	0 U
JF-DGP3	03/28/2012	15'	—	—	—	—	—	0.0012 U	0.0012 U	0.0012 U	0.0012 U	**0.0007 J**	0 U
JF-DGP4	03/28/2012	17'	—	—	—	—	—	0.001 U	**0.0007 J**	**0.0022**	**0.0006 J**	**0.0015**	**0.0028 J**
JF-DGP4	03/28/2012	21'	—	—	—	—	—	0.001 U	0.001 U	**0.0013**	0.001 U	**0.002**	**0.0013**
JF-DGP4	03/28/2012	26'-26'	—	—	—	—	—	0.0012 U	**0.0023**	**0.0062**	**0.0013**	**0.0081**	**0.0075**
JF-DGP4	03/28/2012	31'	—	—	—	—	—	0.0012 U	0.0012 U	0.0012 U	0.0012 U	**0.0007 J**	0 U
JF-DGP4	03/28/2012	33'	—	—	—	—	—	0.0012 U	0.0012 U	0.0012 U	0.0012 U	**0.0008 J**	0 U
JF-DGP5	03/29/2012	2'-2'	—	—	—	—	—	**0.0017**	0.0011 U	0.0011 U	0.0011 U	**0.0006 J**	0 U
JF-DGP5	03/29/2012	16'	—	—	—	—	—	0.0009 U	0.0009 U	0.0009 U	0.0009 U	**0.0009 J**	0 U
JF-DGP5	03/29/2012	26'-26'	—	—	—	—	—	**0.0009 J**	0.0012 U	0.0012 U	0.0012 U	**0.0015**	0 U
JF-DGP6	03/30/2012	18.5'	—	—	—	—	—	0.0016 U	0.0016 U	**0.0028 J**	0.0016 U	**0.0018 J**	**0.0028 J**
JF-DGP6	03/30/2012	21'	—	—	—	—	—	0.0014 U	0.0014 U	0.0014 U	0.0014 U	**0.0013 J**	0 U
JF-DGP6	03/30/2012	26'-26'	—	—	—	—	—	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0 U
MW-50	02/12/2009	6.5'	28 U	5.8 U	—	56 U	—	0.02 U	0.058 U	—	—	0.058 U	0.058 U
MW-50	02/12/2009	11'	29 U	5.4 U	—	59 U	—	0.02 U	0.054 U	—	—	0.054 U	0.054 U
MW-51	02/12/2009	5.5'	**130**	**15**	—	**680**	—	0.02 U	0.046 U	—	—	0.046 U	0.046 U
MW-51	02/12/2009	10.5'	29 U	11 U	—	58 U	—	0.021 U	0.11 U	—	—	0.11 U	0.11 U
MW-52	02/12/2009	5.5'	29 U	4.5 U	—	**120**	—	0.02 U	0.045 U	—	—	0.045 U	0.045 U
MW-52	02/12/2009	11.5'	27 U	5.4 U	—	54 U	—	0.02 U	0.054 U	—	—	0.054 U	0.054 U
PL2-JF04A	02/16/2005	6'-8'	7 U	—	—	14 U	—	—	—	—	—	—	—
PL2-JF04A	02/16/2005	8'-10'	34 U	—	—	**70 J**	—	—	—	—	—	—	—

Table B-2: Petroleum Hydrocarbons and BTEX in Soil

Sample Location	Sample Date	Sample Depth	Petroleum Hydrocarbons (milligrams per kilogram)					BTEX (milligrams per kilogram)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Hydraulic Fluids	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	Hydraulic	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
PL2-JF04A	02/16/2005	10'-12'	**140**	—	—	**390 J**	—	—	—	—	—	—	—
PL2-JF04A	02/16/2005	12'-14'	32 U	—	—	65 U	—	—	—	—	—	—	—
PL2-JF04A	02/16/2005	14'-16'	6.6 U	—	—	**14 J**	—	—	—	—	—	—	—
PL2-JF04A	02/16/2005	16'-18'	**11**	—	—	**26 J**	—	—	—	—	—	—	—
SB-07201		1.5-2.5'	—	—	—	—	—	0.0011 U	0.0011 U	—	—	0.0011 U	0.0021 U
SB-07201		5'-6.5'	—	—	—	—	—	0.0013 U	0.0013 U	—	—	0.0013 U	0.0025 U
SB-07201		12.5'-14.25'	—	—	—	—	—	0.0013 U	0.0013 U	—	—	0.0013 U	0.0026 U
SB-07202	09/08/1994	1.75-2.75'	—	—	—	—	—	0.0011 U	0.0011 U	—	—	0.0011 U	0.0022 U
SB-07202	09/12/1994	5'-6.5'	—	—	—	—	—	0.0011 U	0.01 U	—	—	0.0016 U	0.01 U
SB-07202	09/12/1994	7.5'-8.5'	—	—	—	—	—	0.0012 U	0.01 U	—	—	0.0012 U	0.0062 U
SB-07202	09/12/1994	12.5'-14'	—	—	—	—	—	0.0013 U	0.0013 U	—	—	0.0013 U	0.0026 U
SB-07210	09/21/1994	2'-3'	—	—	—	—	**27**	—	—	—	—	—	—
SB-07210	09/21/1994	8'-8.5'	—	—	—	—	13 U	—	—	—	—	—	—
SB-07210	09/21/1994	11.5-12.5'	—	—	—	—	13 U	—	—	—	—	—	—
SB-07220	06/10/2003	12'-14'	50 U	**68**	—	100 U	—	—	—	—	—	—	—
SB-07228	06/10/2003	12'-14'	**300**	**1,700**	—	**550**	—	—	—	—	—	—	—
SB-07229	06/11/2003	8'-10'	**160**	**350**	—	**280**	—	—	—	—	—	—	—
SB-07229	06/11/2003	10'-12'	**1,200**	**5,200**	—	**1700**	—	—	—	—	—	—	—
SB-07229r	02/14/2005	6'-8'	**130**	—	—	**260 J**	—	—	—	—	—	—	—
SB-07229r	02/14/2005	8'-10'	**40**	—	—	**190 J**	—	—	—	—	—	—	—
SB-07229r	02/14/2005	10'-12'	7 U	—	—	**15 J**	—	—	—	—	—	—	—
SB-07229r	02/14/2005	12'-14'	6.8 U	—	—	14 U	—	—	—	—	—	—	—
SB-07229r	02/14/2005	14'-16'	6.6 U	—	—	13 U	—	—	—	—	—	—	—
SB-07230r	02/14/2005	6'-8'	5.4 U	—	—	11 U	—	—	—	—	—	—	—
SB-07230r	02/14/2005	8'-10'	**6.6**	—	—	**29 J**	—	—	—	—	—	—	—
SB-07230r	02/14/2005	10'-12'	**71**	—	—	**180 J**	—	—	—	—	—	—	—
SB-07230r	02/14/2005	12'-14'	**6.8**	—	—	**20 J**	—	—	—	—	—	—	—
SB-07230r	02/14/2005	14'-16'	6.7 U	—	—	13 U	—	—	—	—	—	—	—
SB-07231r	02/14/2005	6'-8'	5.4 U	—	—	11 U	—	—	—	—	—	—	—
SB-07231r	02/14/2005	8'-10'	**6**	—	—	**34 J**	—	—	—	—	—	—	—
SB-07231r	02/14/2005	10'-12'	6.9 U	—	—	**25 J**	—	—	—	—	—	—	—
SB-07231r	02/14/2005	12'-14'	6.6 U	—	—	13 U	—	—	—	—	—	—	—
SB-07231r	02/14/2005	14'-16'	6.7 U	—	—	**19 J**	—	—	—	—	—	—	—
SB-07232	06/11/2003	8'-10'	**62**	**160**	—	100 U	—	—	—	—	—	—	—
SB-07232	06/11/2003	10'-12'	**210**	**660**	—	**280**	—	—	—	—	—	—	—
SB-07232	06/11/2003	12'-14'	**1,400**	**4,700**	—	**1900**	—	—	—	—	—	—	—
SB-07232r	02/14/2005	6'-8'	**7.7 J**	—	—	**31 J**	—	—	—	—	—	—	—
SB-07232r	02/14/2005	8'-10'	7.1 U	—	—	14 U	—	—	—	—	—	—	—
SB-07232r	02/14/2005	10'-12'	**960**	—	—	**2,400 J**	—	—	—	—	—	—	—
SB-07232r	02/14/2005	12'-14'	**650**	—	—	**1,700 J**	—	—	—	—	—	—	—
SB-07232r	02/14/2005	14'-16'	**1,400**	—	—	**3,700 J**	—	—	—	—	—	—	—
SB-07233	06/11/2003	10'-12'	**510**	**710**	—	**800**	—	—	—	—	—	—	—
SB-07233	06/11/2003	12'-14'	**300**	**360**	—	**450**	—	—	—	—	—	—	—
SB-07233	06/11/2003	14'-16'	50 U	34 U	—	100 U	—	—	—	—	—	—	—
SB-07233r	02/14/2005	6'-8'	**9,000**	—	—	**19,000 J**	—	—	—	—	—	—	—
SB-07233r	02/14/2005	8'-10'	**7,600**	—	—	**16,000 J**	—	—	—	—	—	—	—
SB-07233r	02/14/2005	10'-12'	**7.7**	—	—	**21 J**	—	—	—	—	—	—	—
SB-07233r	02/14/2005	12'-14'	**1,400**	—	—	**37,00 J**	—	—	—	—	—	—	—
SB-07233r	02/14/2005	14'-16'	**310**	—	—	**870 J**	—	—	—	—	—	—	—
SB-07234	06/10/2003	12'-14'	**130**	**280**	—	**280**	—	—	—	—	—	—	—

Table B-2: Petroleum Hydrocarbons and BTEX in Soil

Sample Location	Sample Date	Sample Depth	Petroleum Hydrocarbons (milligrams per kilogram)					BTEX (milligrams per kilogram)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Hydraulic Fluids	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	Hydraulic	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
SB-07235	06/11/2003	10'-12'	50 U	**42**	—	100 U	—	—	—	—	—	—	—
SB-07235	06/11/2003	12'-14'	50 U	34 U	—	100 U	—	—	—	—	—	—	—
SB-07236	06/13/2003	10'-12'	**710**	**1,700**	—	**1,200**	—	—	—	—	—	—	—
SB-07237	06/12/2003	10'-12'	50 U	35 U	—	100 U	—	—	—	—	—	—	—
SB-07244	06/11/2003	10'-12'	50 U	**110**	—	100 U	—	—	—	—	—	—	—
SB-07244	06/11/2003	14'-16'	50 U	36 U	—	100 U	—	—	—	—	—	—	—
SB-07245	06/10/2003	12'-14'	**81**	**140**	—	**160**	—	—	—	—	—	—	—
SB-07245	06/10/2003	14'-16'	**260**	**360**	—	**500**	—	—	—	—	—	—	—
SB-07247	06/10/2003	12'-14'	**360**	**1000**	—	**430**	—	—	—	—	—	—	—
SB-07249	02/15/2005	0'-2'	**38**	—	—	**150 J**	—	—	—	—	—	—	—
SB-07249	02/15/2005	2'-4'	**6.5**	—	—	**16 J**	—	—	—	—	—	—	—
SB-07249	02/15/2005	4'-6'	6.6 U	—	—	**8 J**	—	—	—	—	—	—	—
SB-07249	02/15/2005	6'-8'	6.6 U	—	—	**6.6 J**	—	—	—	—	—	—	—
SB-07249	02/15/2005	8'-10'	5.9 U	—	—	5.9 U	—	—	—	—	—	—	—
SB-07249	02/15/2005	10'-12'	6.4 U	—	—	6.4 U	—	—	—	—	—	—	—
SB-07249	02/15/2005	12'-14'	6.7 U	—	—	6.7 U	—	—	—	—	—	—	—
SB-07249	02/15/2005	14'-16'	6.6 U	—	—	6.6 U	—	—	—	—	—	—	—
SB-07250	02/14/2005	0'-2'	**46**	—	—	**110 J**	—	—	—	—	—	—	—
SB-07250	02/14/2005	2'-4'	**280**	—	—	**380 J**	—	—	—	—	—	—	—
SB-07250	02/14/2005	4'-6'	6.5 U	—	—	13 U	—	—	—	—	—	—	—
SB-07250	02/14/2005	6'-8'	6.7 U	—	—	**20 J**	—	—	—	—	—	—	—
SB-07250	02/14/2005	8'-10'	**98**	—	—	**140 J**	—	—	—	—	—	—	—
SB-07250	02/14/2005	10'-12'	6 U	—	—	12 U	—	—	—	—	—	—	—
SB-07250	02/14/2005	12'-14'	6.5 U	—	—	13 U	—	—	—	—	—	—	—
SB-07250	02/14/2005	14'-16'	6.6 U	—	—	13 U	—	—	—	—	—	—	—
SB-07253	02/15/2005	0'-2'	**19**	—	—	**110 J**	—	—	—	—	—	—	—
SB-07253	02/15/2005	2'-4'	5.7 U	—	—	11 U	—	—	—	—	—	—	—
SB-07253	02/15/2005	4'-6'	5.7 U	—	—	11 U	—	—	—	—	—	—	—
SB-07253	02/15/2005	6'-8'	5.6 U	—	—	11 U	—	—	—	—	—	—	—
SB-07253	02/15/2005	8'-10'	6 U	—	—	12 U	—	—	—	—	—	—	—
SB-07253	02/15/2005	10'-12'	7.1 U	—	—	14 U	—	—	—	—	—	—	—
SB-09101	09/12/1994	2'	25 U	20 U	—	50 U	—	0.001 U	0.001 U	—	—	0.001 U	0.0021 U
SB-09101	09/12/1994	5'	25 U	20 U	—	50 U	—	0.0011 U	0.0011 U	—	—	0.0011 U	0.0023 U
SB-09101	09/12/1994	12.5'	25 U	20 U	—	50 U	—	0.0013 U	0.0013 U	—	—	0.0013 U	0.0027 U
SB-09105	09/12/1994	2'	25 U	20 U	—	50 U	—	0.0011 U	0.0011 U	—	—	0.0011 U	0.0021 U
SB-09105	09/12/1994	5'	25 U	20 U	—	50 U	—	0.0014 U	0.0014 U	—	—	0.0014 U	0.0028 U
SB-09105	09/12/1994	12.5'	25 U	20 U	—	50 U	—	0.0013 U	0.0013 U	—	—	0.0013 U	0.0027 U
SB-09106	09/12/1994	2'	**90**	20 U	—	**380**	**430**	0.0011 U	0.0011 U	—	—	**0.0021**	0.0021 U
SB-09106	09/12/1994	5'	25 U	20 U	—	50 U	—	0.0012 U	0.0012 U	—	—	0.0012 U	0.0024 U
SB-09106	09/12/1994	12.5'	25 U	20 U	—	50 U	—	0.0013 U	0.0013 U	—	—	0.0013 U	0.0026 U
T2B1	01/13/2011	3'-5'	**20**	—	—	**58**	—	—	—	—	—	—	—
T2B1	01/13/2011	8'-10'	6.2 U	—	—	12 U	—	—	—	—	—	—	—
T2B1	01/13/2011	13'-15'	**16**	—	—	**52**	—	—	—	—	—	—	—
T2B2	01/13/2011	3'-5'	**21**	—	—	**46**	—	—	—	—	—	—	—
T2B2	01/13/2011	8'-10'	**270**	—	—	**570**	—	—	—	—	—	—	—
T2B2	01/13/2011	13'-15'	6.5 U	—	—	13 U	—	—	—	—	—	—	—
T2B3	01/13/2011	2'-4'	**7.8**	—	—	**220**	—	—	—	—	—	—	—
T2B3	01/13/2011	8'-10'	**8.2**	—	—	**25**	—	—	—	—	—	—	—
T2B3	01/13/2011	13'-15'	**110**	—	—	**120**	—	—	—	—	—	—	—
T2B4	01/13/2011	3'-5'	**42**	—	—	**550**	—	—	—	—	—	—	—

Table B-2: Petroleum Hydrocarbons and BTEX in Soil

Sample Location	Sample Date	Sample Depth	Petroleum Hydrocarbons (milligrams per kilogram)					BTEX (milligrams per kilogram)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Hydraulic Fluids	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	Hydraulic	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
T2B4	01/13/2011	18'-20'	**2,400**	—	—	**4,300**	—	—	—	—	—	—	—
T2B4	01/13/2011	23'-25'	**310**	—	—	**1200**	—	—	—	—	—	—	—
T3B1	01/13/2011	3'-5'	6.5 U	—	—	13 U	—	—	—	—	—	—	—
T3B1	01/13/2011	8'-10'	6.1 U	—	—	12 U	—	—	—	—	—	—	—
T3B1	01/13/2011	13'-15'	**220**	—	—	**600**	—	—	—	—	—	—	—
T3B2	01/13/2011	3'-5'	**9.3**	—	—	**36**	—	—	—	—	—	—	—
T3B2	01/13/2011	8'-10'	6.6 U	—	—	13 U	—	—	—	—	—	—	—
T3B2	01/13/2011	13'-15'	6.8 U	—	—	14 U	—	—	—	—	—	—	—
T3B2	01/13/2011	13'-15'	6.7 U	—	—	14 U	—	—	—	—	—	—	—
T3B3	01/13/2011	3'-5'	**9.4**	—	—	**40**	—	—	—	—	—	—	—
T3B3	01/13/2011	8'-10'	**46**	—	—	**200**	—	—	—	—	—	—	—
T3B3	01/13/2011	13'-15'	**7.7**	—	—	**31**	—	—	—	—	—	—	—
T3B4	01/13/2011	3'-5'	**42**	—	—	**380**	—	—	—	—	—	—	—
T3B4	01/13/2011	13'-15'	**59**	—	—	**2600**	—	—	—	—	—	—	—
T3B4	01/13/2011	23'-25'	7 U	—	—	14 U	—	—	—	—	—	—	—

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
BTEX = benzene, toluene, ethylbenzene, and xylenes; CAS = Chemical Abstracts Service Number

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
Area 1												
* GP-08901	14'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1.2 U	2 U
* GP-08901	24'	09/14/1994	—	—	—	—	**12**	1 U	—	—	3 U	2 U
* GP-08902	14'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1.9 U	2 U
* GP-08902	24'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1.9 U	2 U
* GP-08903	14'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1.9 U	2 U
* GP-08903	24'	09/14/1994	—	—	—	—	1 U	1 U	—	—	5.2 U	2 U
* GP-08904	14'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1.9 U	2 U
* GP-08904	24'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
* GP-08905	14'	09/13/1994	—	—	—	—	1 U	1 U	—	—	**3.4**	2 U
* GP-08905	24'	09/13/1994	—	—	—	—	1 U	1 U	—	—	**7.4**	2 U
GP-08906	15'	11/29/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-08906	25'	11/29/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-08906	45'	11/29/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-08906	65'	11/29/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-08907	15'	11/28/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-08907	25'	11/28/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-08907	45'	11/28/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-08907	63'	11/29/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
* GP-08908	14'	03/17/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
* GP-08908	25'	03/17/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
* GP-08908	14'	03/17/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
* GP-08908	25'	03/17/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
* GP-08908	45'	03/17/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-09106	14'	03/14/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-09106	25'	03/14/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-09106	45'	03/14/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
MW-1	5'-15'	02/13/1991	—	—	—	1,000 U	—	—	—	—	—	—
MW-18	6'-15.75'	09/10/1992	—	—	**4,800**	—	—	—	—	—	—	—
MW-22	6'-15.75'	09/10/1992	—	—	1,000 U	—	—	—	—	—	—	—
MW-22	6'-15.75'	09/17/1992	—	—	—	—	2 U	2 U	—	—	2 U	2 U
MW-22	6'-15.75'	04/13/1993	300 U	—	—	—	1 U	1 U	—	—	1 U	1 U
MW-22	6'-15.75'	11/10/1993	—	—	1,000 U	—	2 U	5 U	—	—	2 U	5 U
MW-22	6'-15.75'	08/08/1994	500 U	—	—	—	—	—	—	—	—	—
MW-22	6'-15.75'	03/07/1995	—	—	—	**1,000**	—	—	—	—	—	—
MW-22	6'-15.75'	08/28/1996	—	—	—	500 U	—	—	—	—	—	—
MW-22	6'-15.75'	11/26/1996	—	—	—	500 U	—	—	—	—	—	—
MW-22	6'-15.75'	01/23/1997	—	—	500 U	—	—	—	—	—	—	—
MW-22	6'-15.75'	10/18/1999	200 U	—	500 U	—	—	—	—	—	—	—
* MW-23	6'-15.75'	09/10/1992	—	—	1,000 U	—	2 U	2 U	—	—	2 U	2 U
* MW-23	6'-15.75'	11/20/1992	—	500 U	—	—	1 U	1 U	—	—	1 U	1 U
* MW-23	6'-15.75'	11/10/1993	—	—	1,000 U	—	2 U	5 U	—	—	2 U	5 U
* MW-23	6'-15.75'	08/08/1994	500 U	—	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	08/28/1996	—	—	—	500 U	—	—	—	—	—	—
* MW-23	6'-15.75'	11/26/1996	—	—	—	500 U	—	—	—	—	—	—
* MW-23	6'-15.75'	10/18/1999	200 U	—	200 U	—	—	—	—	—	—	—
* MW-23	6'-15.75'	08/23/2000	200 U	—	500 U	—	—	—	—	—	—	—
* MW-23	6'-15.75'	02/16/2001	200 U	—	200 U	—	—	—	—	—	—	—
* MW-23	6'-15.75'	12/29/2004	—	—	—	—	1 U	**0.0227 J**	—	—	**0.0908 J**	2 U
* MW-23	6'-15.75'	05/18/2005	236 U	100 U	472 U	—	0.5 U	1 U	—	—	1 U	2 U
* MW-23	6'-15.75'	12/14/2005	240 U	100 U	480 U	—	2 U	2 U	—	—	2 U	2 U

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

	Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
				Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
			CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
*	MW-23	6'-15.75'	05/19/2006	240 U	100 U	510 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-23	6'-15.75'	01/11/2007	**33 J**	50 U	240 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-23	6'-15.75'	08/01/2007	**53 J**	**11 J**	240 U	—	**0.15 J**	**0.092 J**	—	—	**0.24 J**	**0.42 J**
*	MW-23	6'-15.75'	01/31/2008	260 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
*	MW-23	6'-15.75'	02/26/2009	250 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-23	6'-15.75'	05/21/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-23	6'-15.75'	08/27/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-23	6'-15.75'	12/11/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-23		08/16/2017	100 U	—	200 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	09/17/1992	200 U	—	—	—	100 U	100 U	—	—	100 U	100 U
*	MW-24	6'-19.75'	11/10/1993	—	—	1,000 U	—	2 U	5 U	—	—	2 U	5 U
*	MW-24	6'-19.75'	08/08/1994	500 U	—	—	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	08/28/1996	—	—	—	500 U	—	—	—	—	—	—
*	MW-24	6'-19.75'	11/26/1996	—	—	—	500 U	—	—	—	—	—	—
*	MW-24	6'-19.75'	10/18/1999	200 U	—	200 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	08/23/2000	200 U	—	500 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	02/16/2001	200 U	—	200 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	05/18/2005	**121 J**	100 U	**200 J**	—	0.5 U	1 U	—	—	1 U	2 U
*	MW-24	6'-19.75'	12/14/2005	**390**	100 U	**610**	—	2 U	2 U	—	—	2 U	2 U
*	MW-24	6'-19.75'	05/19/2006	240 U	100 U	470 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-24	6'-19.75'	01/11/2007	**100 J**	50 U	**260**	—	1 U	1 U	—	—	1 U	2 U
*	MW-24	6'-19.75'	08/01/2007	**83 J**	**33 J**	240 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-24	6'-19.75'	01/31/2008	250 U	100 U	400 U	—	1 U	—	—	—	1 U	1 U
*	MW-24	6'-19.75'	02/26/2009	270 U	100 U	430 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-24	6'-19.75'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-24	6'-19.75'	08/26/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-24	6'-19.75'	12/10/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-24		08/25/2017	100 U	—	200 U	—	—	—	—	—	—	—
	MW-25	6'-19.75'	09/17/1992	200 U	—	—	—	2,000 U	2,000 U	—	—	2,000 U	2,000 U
	MW-25	6'-19.75'	04/13/1993	**1,400**	—	—	—	1 U	1 U	—	—	1 U	1 U
	MW-25	6'-19.75'	11/10/1993	—	—	1,000 U	—	2 U	5 U	—	—	2 U	5 U
	MW-25	6'-19.75'	08/08/1994	500 U	—	—	—	—	—	—	—	—	—
	MW-25	6'-19.75'	08/28/1996	—	—	—	500 U	—	—	—	—	—	—
	MW-25	6'-19.75'	11/26/1996	—	—	—	500 U	—	—	—	—	—	—
	MW-25	6'-19.75'	01/23/1997	—	—	500 U	—	—	—	—	—	—	—
	MW-25	6'-19.75'	10/18/1999	200 U	—	200 U	—	—	—	—	—	—	—
	MW-25	6'-19.75'	08/23/2000	200 U	—	500 U	—	—	—	—	—	—	—
	MW-25	6'-19.75'	02/16/2001	200 U	—	200 U	—	—	—	—	—	—	—
	MW-25	6'-19.75'	04/10/2002	250 U	—	400 U	—	—	—	—	—	—	—
	MW-25	6'-19.75'	12/05/2002	260 U	—	410 U	—	—	—	—	—	—	—
	MW-25	6'-19.75'	04/24/2004	200 U	—	320 U	—	—	—	—	—	—	—
	MW-25	6'-19.75'	12/29/2004	—	—	—	—	1 U	**0.0284 J**	—	—	**0.087 J**	**2.0304 J**
	MW-25	6'-19.75'	05/18/2005	238 U	100 U	475 U	—	0.5 U	1 U	—	—	1 U	2 U
	MW-25	6'-19.75'	12/14/2005	240 U	100 U	480 U	—	2 U	2 U	—	—	2 U	2 U
	MW-25	6'-19.75'	05/19/2006	240 U	100 U	480 U	—	1 U	1 U	—	—	1 U	2 U
	MW-25	6'-19.75'	01/11/2007	120 U	**21 J**	240 U	—	1 U	1 U	—	—	1 U	2 U
	MW-25	6'-19.75'	08/01/2007	**64 J**	**17 J**	240 U	—	1 U	1 U	—	—	1 U	2 U
	MW-25	6'-19.75'	01/31/2008	270 U	100 U	430 U	—	1 U	—	—	—	1 U	1 U
	MW-25	6'-19.75'	02/26/2009	270 U	100 U	430 U	—	0.2 U	—	—	—	1 U	0.4 U
	MW-25	6'-19.75'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
MW-25	6'-19.75'	08/26/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-25	6'-19.75'	12/11/2009	270 U	100 U	430 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-25		08/23/2017	100 U	—	200 U	—	—	—	—	—	—	—
MW-30		02/09/2018	**643**	100 U	200 U	—	—	—	—	—	—	—
MW-30	5'-19.5'	03/07/1995	—	—	—	500 U	—	—	—	—	—	—
MW-30	5'-19.5'	08/28/1996	—	—	—	500 U	—	—	—	—	—	—
MW-30	5'-19.5'	11/26/1996	—	—	—	500 U	—	—	—	—	—	—
MW-30	5'-19.5'	01/23/1997	—	—	500 U	—	—	—	—	—	—	—
MW-30	5'-19.5'	10/18/1999	200 U	—	500 U	—	—	—	—	—	—	—
MW-30	5'-19.5'	02/16/2001	200 U	—	500 U	—	—	—	—	—	—	—
MW-30	5'-19.5'	12/14/2005	240 U	100 U	480 U	—	2 U	2 U	—	—	2 U	2 U
MW-30	5'-19.5'	05/19/2006	240 U	100 U	480 U	—	1 U	1 U	—	—	1 U	2 U
MW-30	5'-19.5'	01/12/2007	—	**27 J**	—	—	1 U	1 U	—	—	1 U	2 U
MW-30	5'-19.5'	08/02/2007	**100 J**	**39 J**	240 U	—	1 U	1 U	—	—	1 U	**0.46 J**
MW-30	5'-19.5'	01/31/2008	260 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
MW-30		02/09/2018	**702**	100 U	200 U	—	—	—	—	—	—	—
MW-30		08/18/2017	**665**	—	200 U	—	—	—	—	—	—	—
MW-48		02/12/2009	—	—	—	—	**0.39**	—	—	—	**2**	0.4 U
MW-48	5'-17'	02/26/2009	270 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-48	5'-17'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-48	5'-17'	08/26/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-48	5'-17'	12/10/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
* MW-49	23'-27'	02/13/2009	—	—	—	—	**0.28**	—	—	—	1 U	0.4 U
* MW-49	5'-17'	02/26/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
* MW-49	5'-17'	05/21/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
* MW-49	5'-17'	08/27/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
* MW-49	5'-17'	12/11/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
* MW-49		02/09/2018	—	—	—	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
* MW-49		08/17/2017	100 U	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	**0.38**	—
MW-9	5'-20'	03/24/1992	—	—	—	**1,800**	0.5 U	0.5 U	—	—	0.5 U	0.5 U
MW-9	5'-20'	04/13/1993	300 U	50 U	—	—	—	—	—	—	—	—
MW-9	5'-20'	02/06/1995	250 U	—	750 U	—	—	—	—	—	—	—
MW-9	5'-20'	04/13/1995	250 U	50 U	750 U	—	0.5 U	1 U	—	—	1 U	1 U
MW-9	5'-20'	08/23/2000	200 U	100 U	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-9	5'-20'	02/16/2001	200 U	100 U	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-9	5'-20'	05/18/2005	237 U	100 U	474 U	—	0.5 U	1 U	—	—	1 U	2 U
MW-9	5'-20'	12/14/2005	240 U	100 U	480 U	—	2 U	2 U	—	—	2 U	2 U
MW-9	5'-20'	05/19/2006	240 U	100 U	490 U	—	1 U	1 U	—	—	1 U	2 U
MW-9	5'-20'	01/12/2007	**47 J**	**13 J**	**79 J**	—	1 U	1 U	—	—	1 U	2 U
MW-9	5'-20'	08/01/2007	**51 J**	**11 J**	240 U	—	1 U	1 U	—	—	1 U	2 U
MW-9	5'-20'	01/31/2008	260 U	100 U	410 U	—	1 U	—	—	—	1 U	1 U
MW-9		02/13/2018	100 U	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
MW-9		08/17/2017	100 U	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	**0.48**	—
Area 2												
MW-12	5'-20'	03/24/1992	—	—	—	**29,000**	—	—	—	—	—	—
MW-12	5'-20'	09/10/1992	—	—	1000 U	—	—	—	—	—	—	—
MW-12	5'-20'	11/10/1993	—	—	1000 U	—	2 U	5 U	—	—	2 U	5 U
MW-12	5'-20'	03/02/1994	—	—	—	**3,800**	—	—	—	—	—	—
MW-12	5'-20'	11/01/1994	—	—	—	500 U	—	—	—	—	—	—

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
MW-12	5'-20'	04/17/1995	**58,000**	—	**990**	—	—	—	—	—	—	—
MW-13	5'-20'	09/10/1992	—	—	**7,300**	—	2 U	2 U	—	—	2 U	2 U
MW-13	5'-20'	04/17/1995	**160,000**	—	**340,000**	—	—	—	—	—	—	—
MW-14	5'-20'	09/10/1992	—	—	1,000 U	—	—	—	—	—	—	—
MW-14	5'-20'	11/10/1993	—	—	1,000 U	—	2 U	5 U	—	—	2 U	5 U
MW-14	5'-20'	03/02/1994	—	—	—	**4,800**	—	—	—	—	—	—
MW-14	5'-20'	08/08/1994	**2,700**	—	—	—	—	—	—	—	—	—
MW-14	5'-20'	10/31/1994	—	—	—	**700**	—	—	—	—	—	—
MW-14	5'-20'	02/06/1995	**2,620**	—	**1,240**	—	—	—	—	—	—	—
MW-14	5'-20'	04/13/1995	**1,450**	—	**1,070**	—	—	—	—	—	—	—
MW-14	5'-20'	01/23/1997	**7,890**	—	**6,730**	—	—	—	—	—	—	—
MW-14	5'-20'	01/06/2000	200 U	—	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-14	5'-20'	05/04/2000	200 U	—	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-14	5'-20'	08/23/2000	—	100 U	—	—	1 U	1 U	—	—	1 U	1 U
MW-14	5'-20'	12/14/2000	200 U	100 U	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-14	5'-20'	02/16/2001	200 U	—	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-14	5'-20'	12/14/2005	**540**	100 U	**920**	—	2 U	2 U	—	—	2 U	2 U
MW-14	5'-20'	05/19/2006	**620**	100 U	**890**	—	1 U	1 U	—	—	1 U	2 U
MW-14	5'-20'	01/12/2007	**1,800**	**17 J**	**2,900**	—	1 U	1 U	—	—	1 U	2 U
MW-14	5'-20'	08/01/2007	**430**	**28 J**	**390**	—	1 U	1 U	—	—	1 U	2 U
MW-14	5'-20'	02/01/2008	270 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
MW-14	5'-20'	02/27/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-14		02/12/2018	**309**	100 U	200 U	—	—	—	—	—	—	—
MW-14		08/25/2017	**118**	—	200 U	—	—	—	—	—	—	—
MW-15	5'-20'	09/10/1992	—	—	1000 U	—	—	—	—	—	—	—
MW-15	5'-20'	11/10/1993	—	—	1000 U	—	2 U	5 U	—	—	2 U	5 U
MW-15	5'-20'	03/02/1994	—	—	—	**2,600**	—	—	—	—	—	—
MW-15	5'-20'	08/08/1994	500 U	—	—	—	—	—	—	—	—	—
MW-15	5'-20'	11/01/1994	—	—	—	500 U	—	—	—	—	—	—
MW-15	5'-20'	02/06/1995	250 U	—	750 U	—	—	—	—	—	—	—
MW-15	5'-20'	04/13/1995	250 U	—	750 U	—	—	—	—	—	—	—
MW-15	5'-20'	01/23/1997	250 U	—	750 U	—	—	—	—	—	—	—
MW-15	5'-20'	10/20/1999	200 U	—	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-15	5'-20'	01/06/2000	200 U	—	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-15	5'-20'	05/04/2000	200 U	—	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-15	5'-20'	08/23/2000	—	100 U	—	—	1 U	1 U	—	—	1 U	1 U
MW-15	5'-20'	12/14/2000	200 U	100 U	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-15	5'-20'	02/16/2001	200 U	—	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-15	5'-20'	12/14/2005	240 U	100 U	480 U	—	2 U	2 U	—	—	2 U	2 U
MW-15	5'-20'	05/19/2006	250 U	100 U	480 U	—	1 U	1 U	—	—	1 U	2 U
MW-15	5'-20'	01/12/2007	120 U	**11 J**	240 U	—	1 U	1 U	—	—	1 U	2 U
MW-15	5'-20'	08/01/2007	**65 J**	**8.9 J**	240 U	—	1 U	1 U	—	—	1 U	2 U
MW-15	5'-20'	01/31/2008	250 U	100 U	400 U	—	1 U	—	—	—	1 U	1 U
MW-15		02/12/2018	—	100 U	—	—	—	—	—	—	—	—
MW-15		08/23/2017	100 U	—	200 U	—	—	—	—	—	—	—
MW-2	5'-15'	04/17/1995	**61,000**	—	**320,000**	—	—	—	—	—	—	—
MW-32	5'-15'	10/26/1995	**1,110**	—	**2,000**	—	—	—	—	—	—	—
MW-32	5'-15'	10/20/1999	200 U	—	500 U	—	1 U	1 U	—	—	1 U	**3.7**
MW-32	5'-15'	01/06/2000	200 U	—	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-32	5'-15'	05/04/2000	200 U	—	500 U	—	1 U	1 U	—	—	1 U	1 U

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
MW-32	5'-15'	08/23/2000	—	100 U	—	—	1 U	1 U	—	—	1 U	1 U
MW-32	5'-15'	12/14/2000	200 U	100 U	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-32	5'-15'	02/16/2001	200 U	—	500 U	—	1 U	1 U	—	—	1 U	**2.2**
MW-32	5'-15'	08/02/2007	**420**	**88**	**91 J**	—	**0.29 J**	**0.12 J**	—	—	**0.42 J**	**0.68 J**
MW-32	5'-15'	02/01/2008	260 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
MW-32	5'-15'	02/27/2009	270 U	100 U	430 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-32	5'-15'	05/20/2009	**2,300**	**1,600**	400 U	—	1 U	—	—	—	1 U	**5.6**
MW-32	5'-15'	08/26/2009	260 U	100 U	410 U	—	1 U	—	—	—	1 U	1 U
MW-32	5'-15'	12/10/2009	260 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
MW-32		02/07/2018	**474**	—	200 U	—	—	—	—	—	—	—
MW-32		08/24/2017	**1,350**	100 U	**623**	—	0.03 U	0.04 U	0.05 U	0.03 U	0.2 U	—
MW-33	5'-15'	04/30/1993	40000 U	—	—	—	—	—	—	—	—	—
MW-33	5'-15'	10/26/1995	**99,200**	—	**203,000**	—	—	—	—	—	—	—
MW-34	5'-15'	10/26/1995	**5,080**	—	**9,730**	—	—	—	—	—	—	—
MW-34	5'-15'	10/27/1999	**3,700**	—	500 U	—	**12**	**37**	—	—	1 U	**130**
MW-34	5'-15'	08/23/2000	—	**1,500**	—	—	**9**	**22**	—	—	1 U	**97**
MW-34	5'-15'	12/14/2000	200 U	**1,700**	500 U	—	**6.9**	**1.8**	—	—	1 U	**94**
MW-34	5'-15'	02/16/2001	200 U	—	500 U	—	**6.6**	**15**	—	—	1 U	**74**
MW-34	5'-15'	05/18/2005	**4,930**	**375**	**690**	—	0.5 U	1 U	—	—	1 U	2 U
MW-34	5'-15'	12/14/2005	**3,900**	**520**	**490**	—	2 U	2 U	—	—	2 U	2 U
MW-34	5'-15'	05/19/2006	**4,600**	**450**	**880**	—	1 U	**0.2 J**	—	—	1 U	**0.086 J**
MW-34	5'-15'	01/12/2007	**9,800**	**230**	**2,400**	—	1 U	**0.15 J**	—	—	1 U	**0.13 J**
MW-34	5'-15'	08/02/2007	**6,500**	**89**	**1,100**	—	1 U	**0.11 J**	—	—	**0.15 J**	**0.65 J**
MW-34	5'-15'	02/01/2008	**2,200**	100 U	410 U	—	1 U	—	—	—	1 U	1 U
MW-34		02/07/2018	**6,100**	100 U	**1,010**	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
MW-34		02/07/2018	**6,410**	—	1,000 U	—	—	—	—	—	—	—
MW-34		08/21/2017	**8,130**	—	**1,540**	—	—	—	—	—	—	—
MW-34		08/21/2017	**8,160 J**	—	**1,030**	—	—	—	—	—	—	—
MW-35	5'-15'	10/26/1995	**1,820**	—	**2,890**	—	—	—	—	—	—	—
MW-36		10/20/1999	200 U	—	500 U	—	1 U	1 U	—	—	1 U	**13**
MW-36		01/06/2000	200 U	—	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-36		08/02/2007	**300**	**13 J**	**140 J**	—	1 U	1 U	—	—	1 U	2 U
MW-36		02/01/2008	260 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
MW-36		02/27/2009	270 U	100 U	430 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-36		05/20/2009	250 U	100 U	400 U	—	1 U	—	—	—	1 U	1 U
MW-36		08/26/2009	250 U	100 U	400 U	—	1 U	—	—	—	1 U	1 U
MW-36		12/10/2009	260 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
MW-36		02/08/2018	**1,220**	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
MW-37	10'-25'	02/25/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-37	10'-25'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-37	10'-25'	08/27/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-37	10'-25'	12/11/2009	270 U	100 U	430 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-7		03/02/1990	—	—	—	—	0.5 U	0.5 U	—	—	0.5 U	0.5 U
MW-7	10'-20'	08/08/1994	500 U	—	—	—	—	—	—	—	—	—
MW-7	10'-20'	11/01/1994	—	—	—	500 U	—	—	—	—	—	—
MW-7	10'-20'	04/13/1995	250 U	—	750 U	—	—	—	—	—	—	—
MW-7	10'-20'	01/23/1997	250 U	—	750 U	—	—	—	—	—	—	—
MW-7	10'-20'	12/14/2005	240 U	100 U	480 U	—	2 U	2 U	—	—	2 U	2 U
MW-7	10'-20'	05/18/2006	240 U	100 U	480 U	—	1 U	1 U	—	—	1 U	2 U
MW-7	10'-20'	01/11/2007	120 U	50 U	240 U	—	1 U	1 U	—	—	1 U	2 U

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
MW-7	10'-20'	08/01/2007	**48 J**	**14 J**	240 U	—	1 U	1 U	—	—	1 U	2 U
MW-7	10'-20'	02/01/2008	260 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
MW-7	10'-20'	02/25/2009	280 U	100 U	440 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-7	10'-20'	05/20/2009	250 U	100 U	400 U	—	1 U	—	—	—	1 U	1 U
MW-7	10'-20'	08/25/2009	260 U	100 U	410 U	—	1 U	—	—	—	1 U	1 U
MW-7	10'-20'	12/10/2009	250 U	100 U	410 U	—	1 U	—	—	—	1 U	1 U
Area 3												
MW-3	4.5'-19.75'	05/23/1991	—	**22,000**	—	**8300**	**72**	**480**	—	—	**1,800**	**3,400**
MW-3	4.5'-19.75'	04/13/1993	**900**	**3,400**	—	—	—	—	—	—	—	—
MW-3	4.5'-19.75'	02/16/2001	200 U	100 U	500 U	—	1 U	**3.7**	—	—	1 U	1 U
MW-3	4.5'-19.75'	01/31/2008	260 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
MW-3		02/07/2018	100 U	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
MW-3		08/17/2017	100 U	**1,300**	200 U	—	**0.03**	**2.14**	**0.82**	**0.24**	**0.66**	—
MW-4	4.75'-20'	05/23/1991	—	**59,000**	—	**14,000**	**1,200**	**1,900**	—	—	**14,000**	**9,500**
MW-4	4.75'-20'	04/13/1993	**1,500**	**12,600**	—	—	—	—	—	—	—	—
MW-4	4.75'-20'	02/06/1995	250 U	—	750 U	—	—	—	—	—	—	—
MW-4	4.75'-20'	04/13/1995	**720**	**630**	750 U	—	**4**	**34**	—	—	**8**	**112**
MW-4	4.75'-20'	08/23/2000	200 U	100 U	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-4	4.75'-20'	02/16/2001	200 U	100 U	500 U	—	1 U	**4.3**	—	—	1 U	**3.9**
MW-4	4.75'-20'	01/31/2008	260 U	400 U	420 U	—	4 U	4 U	—	—	4 U	4 U
MW-4		02/07/2018	100 U	**199**	200 U	—	0.03 U	0.04 U	**0.06 J**	0.03 U	0.2 U	—
MW-4		08/17/2017	**110**	**2,640**	200 U	—	**0.07 J**	**0.29**	**0.33 J**	**0.11 J**	**0.84**	—
MW-8		02/07/2018	100 U	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
MW-8	5'-20'	10/14/1991	—	**3,900**	—	**1,000**	**390**	**110**	—	—	**40**	**200**
MW-8	5'-20'	04/13/1993	**300**	**990**	—	—	—	—	—	—	—	—
MW-8	5'-20'	02/06/1995	**310**	—	750 U	—	—	—	—	—	—	—
MW-8	5'-20'	04/13/1995	250 U	**200**	750 U	—	**18.9**	**3**	—	—	**2**	**6**
MW-8	5'-20'	02/16/2001	200 U	100 U	200 U	—	**1**	**1**	—	—	**1**	**1**
MW-8	5'-20'	01/31/2008	250 U	100 U	400 U	—	1 U	—	—	—	1 U	1 U
MW-8	5'-20'	02/26/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-8		02/07/2018	100 U	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
MW-8		08/17/2017	**135**	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	**0.47**	—
Area 4												
MW-10	5'-20'	03/24/1992	—	—	—	1,000 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U
MW-10	5'-20'	04/13/1993	300 U	50 U	—	—	—	—	—	—	—	—
MW-10	5'-20'	11/01/1994	—	—	—	500 U	—	—	—	—	—	—
MW-10	5'-20'	02/06/1995	**700**	—	750 U	—	—	—	—	—	—	—
MW-10	5'-20'	04/13/1995	**700**	—	750 U	—	—	—	—	—	—	—
MW-10	5'-20'	01/23/1997	**590**	—	750 U	—	—	—	—	—	—	—
MW-10	5'-20'	08/23/2000	200 U	100 U	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-10	5'-20'	02/16/2001	200 U	100 U	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-10	5'-20'	05/18/2005	**2,620**	100 U	**18,100**	—	0.5 U	1 U	—	—	1 U	2 U
MW-10	5'-20'	12/14/2005	**1,700**	100 U	**1,200**	—	2 U	2 U	—	—	2 U	2 U
MW-10	5'-20'	05/19/2006	**9,600**	100 U	**3,600**	—	1 U	1 U	—	—	1 U	2 U
MW-10	5'-20'	08/01/2007	**1,800**	**15 J**	**2,700**	—	1 U	1 U	—	—	**0.15 J**	2 U
MW-10	5'-20'	02/01/2008	270 U	400 U	**13,000**	—	4 U	—	—	—	4 U	4 U
MW-11	5'-20'	03/24/1992	—	—	—	**1,600**	**0.7**	0.5 U	—	—	**1**	**1**
MW-11	5'-20'	04/13/1993	300 U	50 U	—	—	—	—	—	—	—	—
MW-11	5'-20'	02/06/1995	**4,960**	—	**1,940**	—	—	—	—	—	—	—

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
MW-11	5'-20'	04/13/1995	**980**	—	750 U	—	—	—	—	—	—	—
MW-11	5'-20'	01/23/1997	**4,470**	—	**1,720**	—	—	—	—	—	—	—
MW-11	5'-20'	10/27/1999	200 U	—	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-11	5'-20'	02/16/2001	200 U	100 U	500 U	—	1 U	1 U	—	—	1 U	1 U
MW-11	5'-20'	05/19/2006	**1,600**	100 U	**1,200**	—	1 U	1 U	—	—	1 U	2 U
MW-11	5'-20'	01/11/2007	**740**	**19 J**	**420**	—	1 U	1 U	—	—	1 U	2 U
MW-11	5'-20'	08/01/2007	**540**	**56**	**290**	—	1 U	1 U	—	—	1 U	2 U
MW-11	5'-20'	01/31/2008	260 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
MW-11	5'-20'	02/25/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-11		02/13/2018	**476**	100 U	200 U	—	—	—	—	—	—	—
MW-11		08/24/2017	**971**	—	**573**	—	—	—	—	—	—	—
Area 5												
MW-40	10'-25'	02/27/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-40	10'-25'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-40	10'-25'	08/26/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-40	10'-25'	12/18/2009	260 U	100 U	—	—	0.2 U	—	—	—	1 U	0.4 U
MW-40	10'-25'		—	—	420 U	—	—	—	—	—	—	—
MW-40		02/08/2018	**1,500**	—	200 U	—	—	—	—	—	—	—
MW-41	30'-40'	02/27/2009	270 U	100 U	440 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-41	30'-40'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-41	30'-40'	08/26/2009	270 U	100 U	430 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-41	30'-40'	12/18/2009	250 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-41		02/08/2018	**758**	—	**208**	—	—	—	—	—	—	—
MW-41		08/21/2017	**227**	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
Area 6												
* GP-06635	15'	11/22/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
* GP-06635	25'	11/22/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
* GP-06635	45'	11/22/1994	—	—	—	—	**2.3**	1 U	—	—	1 U	2 U
* GP-06635	65'	11/22/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-06640	14'	03/15/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-06640	25'	03/15/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-06640	45'	03/15/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-09104	15'	11/23/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-09104	25'	11/23/1994	—	—	—	—	**2.7**	1 U	—	—	1 U	2 U
GP-09104	45'	11/23/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-09105	15'	11/23/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-09105	25'	11/23/1994	—	—	—	—	**4.1**	1 U	—	—	1 U	2 U
GP-09105	45'	11/23/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
GP-09107	14'	03/14/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-09107	25'	03/14/1995	—	—	—	—	**7.2**	1 U	—	—	1 U	1 U
GP-09107	45'	03/14/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-09108	14'	03/14/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-09108	25'	03/14/1995	—	—	—	—	**5.4**	1 U	—	—	1 U	1 U
GP-09108	45'	03/14/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-09109	14'	03/15/1995	—	—	—	—	1 U	**1**	—	—	1 U	**2**
GP-09109	25'	03/15/1995	—	—	—	—	**5.8**	1 U	—	—	1 U	1 U
GP-09109	45'	03/15/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-09110	15'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
GP-09110	25'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

	Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
				Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
			CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
	GP-09110	45'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-09111	15'	09/20/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-09111	25'	09/20/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-09111	45'	09/20/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-09112	15'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-09112	25'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-09112	45'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09113	15'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09113	25'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09113	45'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09114	15'	09/20/1995	—	—	—	—	**1.3**	1 U	—	—	1 U	1 U
*	GP-09114	25'	09/20/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09114	45'	09/20/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09115	15'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09115	25'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09115	45'	09/19/1995	—	—	—	—	**1.5**	1 U	—	—	1 U	1 U
	MW-31	5'-19'	08/08/1994	—	—	—	500 U	—	—	—	—	—	—
	MW-31	5'-19'	03/07/1995	—	—	—	**600**	—	—	—	—	—	—
	MW-31	5'-19'	10/26/1995	**540**	—	750 U	—	—	—	—	—	—	—
	MW-31	5'-19'	08/28/1996	—	—	—	500 U	—	—	—	—	—	—
	MW-31	5'-19'	11/26/1996	—	—	—	500 U	—	—	—	—	—	—
	MW-31	5'-19'	01/23/1997	—	—	500 U	—	—	—	—	—	—	—
	MW-31	5'-19'	10/18/1999	200 U	—	200 U	—	—	—	—	—	—	—
	MW-31	5'-19'	08/23/2000	200 U	—	500 U	—	—	—	—	—	—	—
	MW-31	5'-19'	02/16/2001	200 U	—	200 U	—	—	—	—	—	—	—
	MW-31	5'-19'	04/10/2002	250 U	—	400 U	—	—	—	—	—	—	—
	MW-31	5'-19'	12/29/2004	—	—	—	—	**0.0826 J**	**1**	—	—	**0.0651 J**	**2.0798 J**
	MW-31	5'-19'	05/18/2005	**849**	**76.9 J**	**195 J**	—	0.5 U	1 U	—	—	1 U	2 U
	MW-31	5'-19'	12/14/2005	**500**	100 U	480 U	—	2 U	2 U	—	—	2 U	2 U
	MW-31	5'-19'	05/19/2006	**510**	100 U	480 U	—	1 U	1 U	—	—	1 U	2 U
	MW-31	5'-19'	01/11/2007	**570**	**23 J**	**150 J**	—	**0.11 J**	1 U	—	—	**0.071 J**	**0.09 J**
	MW-31	5'-19'	08/02/2007	**33 J**	**27 J**	240 U	—	1 U	1 U	—	—	1 U	**0.11 J**
	MW-31	5'-19'	01/30/2008	260 U	100 U	410 U	—	1 U	—	—	—	1 U	1 U
	MW-31	5'-19'	02/26/2009	270 U	100 U	430 U	—	0.2 U	—	—	—	1 U	0.4 U
	MW-31	5'-19'	05/21/2009	250 U	100 U	400 U	—	1 U	—	—	—	1 U	1 U
	MW-31	5'-19'	08/27/2009	270 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
	MW-31	5'-19'	12/11/2009	260 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
	MW-31		02/06/2018	**1,870**	—	200 U	—	—	—	—	—	—	—
	MW-31		08/16/2017	**1,770**	—	**1,080**	—	—	—	—	—	—	—
	MW-45	30'-40'	02/26/2009	270 U	100 U	430 U	—	**1.2**	—	—	—	1 U	0.4 U
	MW-45	30'-40'	05/21/2009	250 U	100 U	400 U	—	**0.78**	—	—	—	1 U	0.4 U
	MW-45	30'-40'	08/27/2009	260 U	100 U	410 U	—	**0.8**	—	—	—	1 U	0.4 U
	MW-45	30'-40'	12/11/2009	260 U	100 U	420 U	—	**1.3**	—	—	—	1 U	0.2 U
	MW-45		02/06/2018	**641**	—	200 U	—	**0.46**	0.04 U	0.05 U	0.03 U	0.04 U	—
	MW-46		08/24/2017	**1,200**	100 U	**304 J**	—	**0.04 J**	0.04 U	**0.08 J**	**0.07 J**	0.31 U	—
	MW-46	5'-20'	02/26/2009	260 U	**140**	420 U	—	**0.32**	—	—	—	1 U	**0.33**
	MW-46	5'-20'	05/21/2009	250 U	**150**	400 U	—	0.4 U	—	—	—	1 U	0.8 U
	MW-46	5'-20'	08/27/2009	250 U	100 U	400 U	—	**0.25**	—	—	—	1 U	0.4 U
	MW-46	5'-20'	12/11/2009	280 U	**310**	420 U	—	**0.3**	—	—	—	1 U	**0.34**
	MW-46		02/06/2018	**666**	100 U	200 U	—	0.03 U	0.04 U	0.05 U	**0.06 J**	0.04 U	—

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

	Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
				Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
			CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
	MW-46		08/24/2017	**1,510**	100 U	**646 J**	—	**0.04 J**	0.04 U	**0.1 J**	**0.08 J**	**0.47 J**	—
*	MW-6		03/02/1990	—	—	—	—	0.5 U	0.5 U	—	—	0.5 U	0.5 U
*	MW-6	10'-20'	12/14/2005	240 U	100 U	480 U	—	2 U	2 U	—	—	2 U	2 U
*	MW-6	10'-20'	05/19/2006	240 U	100 U	480 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-6	10'-20'	07/31/2007	**59 J**	**12 J**	240 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-6	10'-20'	01/30/2008	250 U	100 U	400 U	—	1 U	1 U	—	—	1 U	1 U
*	MW-6		02/13/2018	100 U	100 U	200 U	—	—	—	—	—	—	—
Area 7													
	MW-38	5'-20'	02/24/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
	MW-38	5'-20'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
	MW-38	5'-20'	08/25/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
	MW-38	5'-20'	12/10/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-39	5'-20'	02/24/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-39	5'-20'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-39	5'-20'	08/26/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-39	5'-20'	12/10/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-42	5'-20'	02/25/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-42	5'-20'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-42	5'-20'	08/26/2009	250 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-42	5'-20'	12/10/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-43	30'-40'	02/25/2009	260 U	100 U	420 U	—	**0.25**	—	—	—	1 U	0.4 U
*	MW-43	30'-40'	05/20/2009	250 U	100 U	400 U	—	**0.21**	—	—	—	1 U	0.4 U
*	MW-43	30'-40'	08/26/2009	250 U	100 U	400 U	—	**0.3**	—	—	—	1 U	0.4 U
*	MW-43	30'-40'	12/11/2009	260 U	100 U	410 U	—	**0.27**	—	—	—	1 U	0.4 U
*	MW-43		02/14/2018	**197**	—	200 U	—	**0.18 J**	0.04 U	0.05 U	**0.11 J**	0.04 U	—
*	MW-43		08/24/2017	**584**	100 U	**329**	—	**0.19 J**	0.04 U	**0.07 J**	**0.11 J**	0.32 U	—
*	MW-44	50'-60'	02/25/2009	270 U	100 U	430 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-44	50'-60'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-44	50'-60'	08/26/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-44	50'-60'	12/18/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-44		02/14/2018	100 U	—	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
*	MW-44		08/23/2017	**378**	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.21 U	—
Area 8													
*	GP-06635	15'	11/22/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
*	GP-06635	25'	11/22/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
*	GP-06635	45'	11/22/1994	—	—	—	—	**2.3**	1 U	—	—	1 U	2 U
*	GP-06635	65'	11/22/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
*	GP-09113	15'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09113	25'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09113	45'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09114	15'	09/20/1995	—	—	—	—	**1.3**	1 U	—	—	1 U	1 U
*	GP-09114	25'	09/20/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09114	45'	09/20/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09115	15'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09115	25'	09/19/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-09115	45'	09/19/1995	—	—	—	—	**1.5**	1 U	—	—	1 U	1 U
*	MW-39	5'-20'	02/24/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-39	5'-20'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-39	5'-20'	08/26/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

	Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
				Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
			CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
*	MW-39	5'-20'	12/10/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-42	5'-20'	02/25/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-42	5'-20'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-42	5'-20'	08/26/2009	250 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-42	5'-20'	12/10/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-43	30'-40'	02/25/2009	260 U	100 U	420 U	—	**0.25**	—	—	—	1 U	0.4 U
*	MW-43	30'-40'	05/20/2009	250 U	100 U	400 U	—	**0.21**	—	—	—	1 U	0.4 U
*	MW-43	30'-40'	08/26/2009	250 U	100 U	400 U	—	**0.3**	—	—	—	1 U	0.4 U
*	MW-43	30'-40'	12/11/2009	260 U	100 U	410 U	—	**0.27**	—	—	—	1 U	0.4 U
*	MW-43		02/14/2018	**197**	—	200 U	—	**0.18 J**	0.04 U	0.05 U	**0.11 J**	0.04 U	—
*	MW-43		08/24/2017	**584**	100 U	**329**	—	**0.19 J**	0.04 U	**0.07 J**	**0.11 J**	0.32 U	—
*	MW-44	50'-60'	02/25/2009	270 U	100 U	430 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-44	50'-60'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-44	50'-60'	08/26/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-44	50'-60'	12/18/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-44		02/14/2018	100 U	—	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
*	MW-44		08/23/2017	**378**	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.21 U	—
	MW-47	5'-20'	02/25/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
	MW-47	5'-20'	05/21/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
	MW-47	5'-20'	08/27/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
	MW-47	5'-20'	12/11/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-6		03/02/1990	—	—	—	—	0.5 U	0.5 U	—	—	0.5 U	0.5 U
*	MW-6	10'-20'	12/14/2005	240 U	100 U	480 U	—	2 U	2 U	—	—	2 U	2 U
*	MW-6	10'-20'	05/19/2006	240 U	100 U	480 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-6	10'-20'	07/31/2007	**59 J**	**12 J**	240 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-6	10'-20'	01/30/2008	250 U	100 U	400 U	—	1 U	1 U	—	—	1 U	1 U
*	MW-6		02/13/2018	100 U	100 U	200 U	—	—	—	—	—	—	—
	PL2-JF03A	8'-22.75'	04/26/2001	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	07/25/2001	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	10/24/2001	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	01/21/2002	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	06/16/2003	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	12/08/2003	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	05/10/2004	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	11/01/2004	—	—	—	—	1 U	1 U	—	1 U	1 U	1 U
	PL2-JF03A	6'-23'	05/02/2005	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
	PL2-JF03A	8'-22.75'	10/31/2005	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	09/28/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	11/17/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	03/01/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	05/23/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	08/26/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	PL2-JF03A	8'-22.75'	11/21/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
Area 9													
	GP-06601	13'	09/12/1994	250 U	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06601	23'	09/12/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06601	45'	09/12/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06602	14'	09/13/1994	250 U	—	—	—	**32**	**170**	—	—	**8.1**	**110**
	GP-06602	24'	09/13/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

	Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
				Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
			CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
	GP-06602	45'	09/13/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06603	14'	09/12/1994	250 U	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06603	24'	09/12/1994	—	—	—	—	**1.8**	1 U	—	—	1 U	2 U
	GP-06603	45'	09/12/1994	—	—	—	—	**5.2**	1 U	—	—	1 U	2 U
	GP-06604	14'	09/13/1994	250 U	—	—	—	**300**	**48**	—	—	**8.1**	**620**
	GP-06604	24'	09/13/1994	—	—	—	—	1 U	1 U	—	—	**4.6**	2 U
	GP-06604	45'	09/13/1994	—	—	—	—	1 U	1 U	—	—	**9.5**	2 U
	GP-06633	15'	11/28/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06633	25'	11/28/1994	—	—	—	—	**29**	**4.2**	—	—	**46 J**	**32 J**
	GP-06633	45'	11/28/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06633	65'	11/28/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06634	15'	11/22/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06634	25'	11/22/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06634	45'	11/22/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06634	65'	11/22/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06636	15'	11/21/1994	—	—	—	—	**1.2 J**	1 U	—	—	1 U	2 U
	GP-06636	25'	11/21/1994	—	—	—	—	**7.8**	1 U	—	—	1 U	2 U
	GP-06636	45'	11/21/1994	—	—	—	—	**12**	1 U	—	—	1 U	2 U
	GP-06636	65'	11/21/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
	GP-06637	14'	03/15/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-06637	25'	03/15/1995	—	—	—	—	**1**	1 U	—	—	1 U	1 U
	GP-06637	45'	03/15/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-06637	25'	03/15/1995	—	—	—	—	**1**	1 U	—	—	1 U	1 U
	GP-06637	45'	03/15/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-06638	14'	03/16/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-06638	25'	03/16/1995	—	—	—	—	**4.4**	1 U	—	—	1 U	1 U
	GP-06638	45'	03/16/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-06639	14'	03/16/1995	—	—	—	—	1 U	1 U	—	—	1 U	**4**
	GP-06639	25'	03/16/1995	—	—	—	—	**16**	1 U	—	—	1 U	1 U
	GP-06639	45'	03/16/1995	—	—	—	—	**7.2**	1 U	—	—	1 U	1 U
*	GP-08901	14'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1.2 U	2 U
*	GP-08901	24'	09/14/1994	—	—	—	—	**12**	1 U	—	—	3 U	2 U
*	GP-08902	14'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1.9 U	2 U
*	GP-08902	24'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1.9 U	2 U
*	GP-08903	14'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1.9 U	2 U
*	GP-08903	24'	09/14/1994	—	—	—	—	1 U	1 U	—	—	5.2 U	2 U
*	GP-08904	14'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1.9 U	2 U
*	GP-08904	24'	09/14/1994	—	—	—	—	1 U	1 U	—	—	1 U	2 U
*	GP-08905	14'	09/13/1994	—	—	—	—	1 U	1 U	—	—	**3.4**	2 U
*	GP-08905	24'	09/13/1994	—	—	—	—	1 U	1 U	—	—	**7.4**	2 U
*	GP-08908	14'	03/17/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-08908	25'	03/17/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
*	GP-08908	45'	03/17/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
	GP-09101	15'	09/12/1994	10,000 U	10,000 U	25,000 U	—	1 U	1 U	—	—	1 U	2 U
	GP-09102	14'	09/08/1994	10,000 U	10,000 U	25,000 U	—	1 U	1 U	—	—	1 U	2 U
	GP-09103	14'	09/08/1994	10,000 U	10,000 U	25,000 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-23	6'-15.75'	09/10/1992	—	—	1,000 U	—	2 U	2 U	—	—	2 U	2 U
*	MW-23	6'-15.75'	11/20/1992	—	500 U	—	—	1 U	1 U	—	—	1 U	1 U
*	MW-23	6'-15.75'	11/10/1993	—	—	1,000 U	—	2 U	5 U	—	—	2 U	5 U
*	MW-23	6'-15.75'	08/08/1994	500 U	—	—	—	—	—	—	—	—	—
*	MW-23	6'-15.75'	08/28/1996	—	—	—	500 U	—	—	—	—	—	—
*	MW-23	6'-15.75'	11/26/1996	—	—	—	500 U	—	—	—	—	—	—

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

	Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
				Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
			CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
*	MW-23	6'-15.75'	10/18/1999	200 U	—	200 U	—	—	—	—	—	—	—
*	MW-23	6'-15.75'	08/23/2000	200 U	—	500 U	—	—	—	—	—	—	—
*	MW-23	6'-15.75'	02/16/2001	200 U	—	200 U	—	—	—	—	—	—	—
*	MW-23	6'-15.75'	12/29/2004	—	—	—	—	1 U	**0.0227 J**	—	—	**0.0908 J**	2 U
*	MW-23	6'-15.75'	05/18/2005	236 U	100 U	472 U	—	0.5 U	1 U	—	—	1 U	2 U
*	MW-23	6'-15.75'	12/14/2005	240 U	100 U	480 U	—	2 U	2 U	—	—	2 U	2 U
*	MW-23	6'-15.75'	05/19/2006	240 U	100 U	510 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-23	6'-15.75'	01/11/2007	**33 J**	50 U	240 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-23	6'-15.75'	08/01/2007	**53 J**	**11 J**	240 U	—	**0.15 J**	**0.092 J**	—	—	**0.24 J**	**0.42 J**
*	MW-23	6'-15.75'	01/31/2008	260 U	100 U	420 U	—	1 U	—	—	—	1 U	1 U
*	MW-23	6'-15.75'	02/26/2009	250 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-23	6'-15.75'	05/21/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-23	6'-15.75'	08/27/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-23	6'-15.75'	12/11/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-23		08/16/2017	100 U	—	200 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	09/17/1992	200 U	—	—	—	100 U	100 U	—	—	100 U	100 U
*	MW-24	6'-19.75'	11/10/1993	—	—	1,000 U	—	2 U	5 U	—	—	2 U	5 U
*	MW-24	6'-19.75'	08/08/1994	500 U	—	—	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	08/28/1996	—	—	—	500 U	—	—	—	—	—	—
*	MW-24	6'-19.75'	11/26/1996	—	—	—	500 U	—	—	—	—	—	—
*	MW-24	6'-19.75'	10/18/1999	200 U	—	200 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	08/23/2000	200 U	—	500 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	02/16/2001	200 U	—	200 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	05/18/2005	**121 J**	100 U	**200 J**	—	0.5 U	1 U	—	—	1 U	2 U
*	MW-24	6'-19.75'	12/14/2005	**390**	100 U	**610**	—	2 U	2 U	—	—	2 U	2 U
*	MW-24	6'-19.75'	05/19/2006	240 U	100 U	470 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-24	6'-19.75'	01/11/2007	**100 J**	50 U	**260**	—	1 U	1 U	—	—	1 U	2 U
*	MW-24	6'-19.75'	08/01/2007	**83 J**	**33 J**	240 U	—	1 U	1 U	—	—	1 U	2 U
*	MW-24	6'-19.75'	01/31/2008	250 U	100 U	400 U	—	1 U	—	—	—	1 U	1 U
*	MW-24	6'-19.75'	02/26/2009	270 U	100 U	430 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-24	6'-19.75'	05/20/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-24	6'-19.75'	08/26/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-24	6'-19.75'	12/10/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-24		08/25/2017	100 U	—	200 U	—	—	—	—	—	—	—
*	MW-49	23'-27'	02/13/2009	—	—	—	—	**0.28**	—	—	—	1 U	0.4 U
*	MW-49	5'-17'	02/26/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-49	5'-17'	05/21/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-49	5'-17'	08/27/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-49	5'-17'	12/11/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
*	MW-49		02/09/2018	—	—	—	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
*	MW-49		08/17/2017	100 U	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	**0.38**	—
	MW-5		03/02/1990	—	—	—	—	**22**	**180**	—	—	**840**	**560**
	MW-5	10'-20'	08/08/1994	500 U	—	—	—	—	—	—	—	—	—
	MW-5	10'-20'	08/28/1996	—	—	—	500 U	—	—	—	—	—	—
	MW-5	10'-20'	11/26/1996	—	—	—	500 U	—	—	—	—	—	—
	MW-5	10'-20'	01/23/1997	—	—	500 U	—	—	—	—	—	—	—
	MW-5	10'-20'	01/30/2008	250 U	100 U	410 U	—	1 U	—	—	—	1 U	1 U
	MW-5	10'-20'	02/24/2009	260 U	**1,100**	420 U	—	**0.91**	—	—	—	1 U	**1.47**
	MW-5	10'-20'	05/21/2009	250 U	**220**	400 U	—	**1.2**	—	—	—	1 U	**1.1**
	MW-5	10'-20'	08/27/2009	260 U	**130**	410 U	—	**1.8**	—	—	—	1 U	0.4 U

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
MW-5	10'-20'	12/11/2009	260 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-50	23'-27'	02/24/2009	—	100 U	—	—	**1.5**	—	—	—	**3.1**	1 U
MW-50	23'-27'	05/21/2009	250 U	100 U	400 U	—	**1.6**	—	—	—	1 U	0.4 U
MW-50	23'-27'	08/27/2009	260 U	100 U	410 U	—	**1.3**	—	—	—	1 U	0.4 U
MW-50	23'-27'	12/11/2009	250 U	100 U	400 U	—	**1.6**	—	—	—	1 U	0.4 U
MW-50		02/14/2018	—	—	—	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
MW-50		08/16/2017	100 U	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.2 U	—
MW-51	23'-27'	02/24/2009	—	100 U	—	—	1 U	—	—	—	1 U	1 U
MW-51	23'-27'	05/21/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-51	23'-27'	08/27/2009	270 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-51	23'-27'	12/11/2009	260 U	100 U	410 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-51		08/25/2017	100 U	100 U	200 U	—	0.03 U	0.04 U	0.05 U	0.03 U	0.04 U	—
MW-52		08/18/2017	100 U	100 U	200 U	—	**0.05 J**	0.04 U	0.05 U	0.03 U	**0.16 J**	—
MW-52	23'-27'	02/24/2009	—	100 U	—	—	1 U	—	—	—	1 U	1 U
MW-52	23'-27'	05/21/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-52	23'-27'	08/27/2009	270 U	100 U	420 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-52	23'-27'	12/11/2009	250 U	100 U	400 U	—	0.2 U	—	—	—	1 U	0.4 U
MW-52		02/06/2018	—	100 U	—	—	**0.08 J**	0.04 U	0.05 U	0.03 U	0.04 U	—
MW-52		08/18/2017	100 U	100 U	200 U	—	**0.06 J**	0.04 U	0.4 U	0.03 U	**1.08 J**	—
PL2-JF01A		03/10/1995	—	—	—	—	**4.1**	1 U	—	—	1 U	1 U
PL2-JF01A		09/27/1995	—	**480**	—	—	**5.9**	1 U	—	—	1 U	1 U
PL2-JF01A		11/17/1995	—	**360**	—	—	**2.2**	1 U	—	—	1 U	1 U
PL2-JF01A		03/01/1996	—	250 U	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01A		05/23/1996	—	**450**	—	—	**2.2**	1 U	—	—	1 U	1 U
PL2-JF01A		08/26/1996	—	**460**	—	—	**3.9**	1 U	—	—	1 U	1 U
PL2-JF01A		11/21/1996	—	250 U	—	—	**1.2**	1 U	—	—	1 U	1 U
PL2-JF01A		02/17/2005	**270**	250 U	250 U	—	—	—	—	—	—	—
PL2-JF01A		02/17/2005	**260**	—	250 U	—	—	—	—	—	—	—
PL2-JF01A		05/23/1996	—	**440**	—	—	—	—	—	—	—	—
PL2-JF01A		05/23/1996	—	250 U	—	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	08/23/2006	250 U	250 U	500 U	—	25 U	25 U	25 U	25 U	25 U	—
PL2-JF01AR	23'-27'	05/17/2001	—	—	—	—	5 U	5 U	—	—	5 U	5 U
PL2-JF01AR	23'-27'	07/25/2001	—	—	—	—	**4**	1 U	—	—	1 U	**3**
PL2-JF01AR	23'-27'	10/24/2001	—	—	—	—	**1**	1 U	—	—	1 U	1 U
PL2-JF01AR	23'-27'	01/21/2002	—	—	—	—	**29**	**92**	—	—	**680**	**156**
PL2-JF01AR	23'-27'	06/16/2003	—	—	—	—	100 U	100 U	—	—	100 U	100 U
PL2-JF01AR	23'-27'	09/02/2003	—	—	—	—	25 U	25 U	—	—	25 U	25 U
PL2-JF01AR	23'-27'	12/08/2003	—	—	—	—	30 U	30 U	—	—	30 U	30 U
PL2-JF01AR	23'-27'	12/19/2003	—	—	—	—	5 U	20 U	—	—	20 U	20 U
PL2-JF01AR	23'-27'	02/02/2004	—	—	—	—	20 U	20 U	—	—	**55 J**	20 U
PL2-JF01AR	23'-27'	05/10/2004	—	—	—	—	50 U	50 U	—	—	50 U	50 U
PL2-JF01AR	23.2'-27'	09/27/2004	—	—	—	—	50 U	50 U	50 U	50 U	50 U	—
PL2-JF01AR	23'-27'	11/01/2004	—	—	—	—	**5.6**	8.5	—	16	—	—
PL2-JF01AR	23'-27'	11/01/2004	—	—	—	—	—	—	—	—	**110**	**32**
PL2-JF01AR	23'-27'	02/01/2005	—	—	—	—	50 U	50 U	—	—	50 U	50 U
PL2-JF01AR	23.2'-27'	05/02/2005	—	—	—	—	**4.6**	**4.1**	**2.2**	**3.3**	**1.8**	—
PL2-JF01AR	23'-27'	08/01/2005	—	—	—	—	75 U	75 U	—	—	75 U	75 U
PL2-JF01AR	23'-27'	10/31/2005	—	—	—	—	10 U	10 U	—	—	10 U	10 U
PL2-JF01AR	23'-27'	02/06/2006	—	—	—	—	10 U	10 U	—	—	10 U	10 U
PL2-JF01AR	23'-27'	05/01/2006	—	—	—	—	15 U	**18**	—	—	**200**	**51**

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
PL2-JF01AR	23'-27'	07/31/2006	—	—	—	—	15 U	15 U	—	—	15 U	15 U
PL2-JF01AR	23'-27'	11/06/2006	—	—	—	—	**8.5**	5 U	—	—	5 U	5 U
PL2-JF01AR	23'-27'	02/01/2007	—	—	—	—	**5.3**	**23**	—	—	**84**	**40**
PL2-JF01AR	23'-27'	05/02/2007	—	—	—	—	**4.4**	**1.9**	—	—	**5.1**	**17**
PL2-JF01AR	23.2'-27'	08/01/2007	—	—	—	—	**4.5**	1 U	1 U	**2.6**	1 U	—
PL2-JF01AR	23.2'-27'	11/12/2007	—	—	—	—	**6.2**	5 U	5 U	5 U	5 U	—
PL2-JF01AR	23'-27'	02/04/2008	—	—	—	—	**5.2**	—	—	—	5 U	5 U
PL2-JF01AR	23.2'-27'	05/12/2008	—	—	—	—	**5.5**	**24**	**26**	**34**	**120**	—
PL2-JF01AR	23'-27'	08/04/2008	—	—	—	—	1 U	—	—	—	1 U	**1.1**
PL2-JF01AR	23.2'-27'	02/03/2009	—	—	—	—	**2.2**	**1.3**	2 U	**2.2**	1 U	—
PL2-JF01AR	23.2'-27'	02/08/2010	—	—	—	—	**4.9**	1 U	2 U	1 U	1 U	—
PL2-JF01AR	23.2'-27'	08/03/2010	—	—	—	—	**5.3**	1 U	2 U	1 U	1 U	—
PL2-JF01AR	23.2'-27'	01/31/2011	—	—	—	—	**6.6**	0.2 U	**13**	**9.9**	**1.4**	—
PL2-JF01AR	23.2'-27'	08/15/2011	—	—	—	—	**3.9**	**5.2**	0.4 U	0.2 U	**0.3**	—
PL2-JF01AR	23'-27'	01/30/2008	260 U	**150**	410 U	—	**5.8**	—	—	—	1 U	**2.8**
PL2-JF01AR	23'-27'	08/10/2009	—	—	—	—	**8.1**	—	—	—	1 U	**4**
PL2-JF01AR	23.2'-27'	08/02/2004	—	—	—	—	50 U	50 U	50 U	50 U	50 U	—
PL2-JF01AR	23.2'-27'	02/06/2012	—	—	—	—	**1.5**	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF01AR	23.2'-27'	08/06/2012	—	—	—	—	**0.5**	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF01AR	23.2'-27'	01/07/2013	—	—	—	—	**0.6**	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF01AR	23.2'-27'	08/06/2013	—	—	—	—	**2.5**	**1.1**	0.5 U	0.5 U	0.2 U	—
PL2-JF01B	40'-50'	08/23/2006	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	04/26/2001	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	07/25/2001	—	—	—	—	2 U	2 U	—	—	2 U	2 U
PL2-JF01B	40'-50'	10/24/2001	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	01/21/2002	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	06/16/2003	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	09/02/2003	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	12/08/2003	—	—	—	—	5 U	5 U	—	—	5 U	5 U
PL2-JF01B	40'-50'	12/19/2003	—	—	—	—	5 U	5 U	—	—	5 U	5 U
PL2-JF01B	40'-50'	02/02/2004	—	—	—	—	5 U	5 U	—	—	5 U	5 U
PL2-JF01B	40'-50'	05/10/2004	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	09/27/2004	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	11/01/2004	—	—	—	—	1 U	1 U	—	1 U	1 U	1 U
PL2-JF01B	40'-50'	02/01/2005	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	05/02/2005	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF01B	40'-50'	08/01/2005	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	10/31/2005	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	02/06/2006	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	05/01/2006	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	07/31/2006	—	—	—	—	1 U	1 U	—	—	1 U	2 U
PL2-JF01B	40'-50'	11/06/2006	—	—	—	—	0.2 U	0.2 U	—	—	0.2 U	0.4 U
PL2-JF01B	40'-50'	02/01/2007	—	—	—	—	0.2 U	0.2 U	—	—	0.2 U	0.4 U
PL2-JF01B	40'-50'	05/02/2007	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	08/01/2007	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF01B	40'-50'	11/12/2007	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF01B	40'-50'	02/04/2008	—	—	—	—	1 U	—	—	—	1 U	1 U
PL2-JF01B	40'-50'	05/12/2008	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF01B	40'-50'	08/04/2008	—	—	—	—	1 U	—	—	—	1 U	1 U
PL2-JF01B	40'-50'	02/03/2009	—	—	—	—	1 U	1 U	2 U	1 U	1 U	—

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
PL2-JF01B	40'-50'	08/10/2009	—	—	—	—	1 U	—	—	—	1 U	2 U
PL2-JF01B	40'-50'	08/03/2010	—	—	—	—	1 U	1 U	2 U	1 U	1 U	—
PL2-JF01B	40'-50'	01/31/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	08/15/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	03/31/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	09/27/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	11/17/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	03/01/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	05/23/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	08/26/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	11/21/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01B	40'-50'	01/30/2008	250 U	100 U	400 U	—	1 U	—	—	—	1 U	1 U
PL2-JF01B	40'-50'	02/06/2012	—	—	—	—	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF01B	40'-50'	08/06/2012	—	—	—	—	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF01B	40'-50'	01/07/2013	—	—	—	—	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF01B	40'-50'	08/06/2013	—	—	—	—	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF01C	74'-78.5'	08/23/2006	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
PL2-JF01C	74'-78'	05/17/2001	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01C	74'-78'	07/25/2001	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01C	74'-78'	10/24/2001	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01C	74'-78'	01/21/2002	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01C	74'-78'	06/16/2003	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01C	74'-78'	12/08/2003	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01C	74'-78'	12/19/2003	—	—	—	—	0.2 U	0.2 U	—	—	0.2 U	0.4 U
PL2-JF01C	74'-78'	05/10/2004	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01C	74'-78.5'	09/27/2004	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	**0.4 J**	—
PL2-JF01C	74'-78'	11/01/2004	—	—	—	—	1 U	1 U	—	1 U	1 U	1 U
PL2-JF01C	74'-78.5'	02/01/2005	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78.5'	05/02/2005	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78.5'	08/01/2005	—	—	—	—	1 U	1 U	1 U	—	1 U	—
PL2-JF01C	74'-78'	10/31/2005	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01C	74'-78'	02/06/2006	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01C	74'-78'	05/01/2006	—	—	—	—	1 U	1 U	—	—	1 U	2 U
PL2-JF01C	74'-78.5'	07/31/2006	—	—	—	—	2 U	2 U	4 U	2 U	2 U	—
PL2-JF01C	74'-78'	11/06/2006	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF01C	74'-78.5'	02/01/2007	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
PL2-JF01C	74'-78'	05/02/2007	—	—	—	—	1 U	1 U	—	—	1 U	2 U
PL2-JF01C	74'-78.5'	08/01/2007	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78.5'	11/12/2007	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78'	02/04/2008	—	—	—	—	1 U	—	—	—	1 U	1 U
PL2-JF01C	74'-78.5'	05/12/2008	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78'	08/04/2008	—	—	—	—	1 U	—	—	—	1 U	1 U
PL2-JF01C	74'-78.5'	02/03/2009	—	—	—	—	1 U	1 U	2 U	1 U	1 U	—
PL2-JF01C	74'-78'	08/10/2009	—	—	—	—	1 U	—	—	—	1 U	2 U
PL2-JF01C	74'-78.5'	08/03/2010	—	—	—	—	1 U	1 U	2 U	1 U	1 U	—
PL2-JF01C	74'-78.5'	01/31/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
PL2-JF01C	74'-78.5'	08/15/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
PL2-JF01C	74'-78'	01/30/2008	260 U	100 U	410 U	—	1 U	—	—	—	1 U	1 U
PL2-JF01C	74'-78.5'	02/06/2012	—	—	—	—	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF01C	74'-78.5'	08/06/2012	—	—	—	—	1 U	2.5 U	2.5 U	2.5 U	1 U	—

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
PL2-JF01C	74'-78.5'	01/07/2013	—	—	—	—	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF01C	74'-78.5'	08/06/2013	—	—	—	—	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF02A	5.5'-23'	08/23/2006	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
PL2-JF02A	8'-22.75'	04/26/2001	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	07/25/2001	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	10/24/2001	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	01/21/2002	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	06/16/2003	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	09/02/2003	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	12/08/2003	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	02/02/2004	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	05/10/2004	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	11/01/2004	—	—	—	—	1 U	1 U	—	1 U	1 U	1 U
PL2-JF02A	8'-22.75'	02/01/2005	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	5.5'-23'	05/02/2005	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF02A	8'-22.75'	08/01/2005	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	10/31/2005	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	02/06/2006	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	05/01/2006	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	07/31/2006	—	—	—	—	0.2 U	0.2 U	—	—	0.2 U	0.4 U
PL2-JF02A	8'-22.75'	11/06/2006	—	—	—	—	0.2 U	0.2 U	—	—	0.2 U	0.4 U
PL2-JF02A	8'-22.75'	02/01/2007	—	—	—	—	0.2 U	0.2 U	—	—	0.2 U	0.4 U
PL2-JF02A	8'-22.75'	05/02/2007	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	5.5'-23'	08/01/2007	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF02A	5.5'-23'	11/12/2007	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—
PL2-JF02A	8'-22.75'	01/30/2008	250 U	100 U	400 U	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	02/04/2008	—	—	—	—	1 U	—	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	08/04/2008	—	—	—	—	1 U	—	—	—	1 U	1 U
PL2-JF02A	5.5'-23'	02/03/2009	—	—	—	—	1 U	1 U	2 U	1 U	1 U	—
PL2-JF02A	8'-22.75'	08/10/2009	—	—	—	—	1 U	—	—	—	1 U	2 U
PL2-JF02A	5.5'-23'	08/03/2010	—	—	—	—	1 U	1 U	2 U	1 U	1 U	—
PL2-JF02A	5.5'-23'	01/31/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
PL2-JF02A	5.5'-23'	08/15/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
PL2-JF02A	8'-22.75'	09/27/1995	—	—	—	—	**1.3**	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	11/17/1995	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	03/01/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	05/23/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	08/26/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	8'-22.75'	11/21/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF02A	5.5'-23'	02/06/2012	—	—	—	—	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF02A	5.5'-23'	08/06/2012	—	—	—	—	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF02A	5.5'-23'	01/07/2013	—	—	—	—	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF02A	5.5'-23'	08/06/2013	—	—	—	—	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	—
PL2-JF02A	8'-22.75'	11/21/1996	—	—	—	—	1 U	1 U	—	—	1 U	1 U
PL2-JF04A	8'-18'	08/23/2006	250 U	**1,800 J**	500 U	—	**0.5**	**0.8**	**0.8**	**0.2**	**0.6**	—
PL2-JF04A		02/18/2005	**730**	**350**	500 U	—	—	—	—	—	—	—
PL2-JF04A	8'-18'	01/30/2008	260 U	**1,200**	**420**	—	**1.3**	1 U	—	—	1 U	**4**
T2B2	0-15'	01/13/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
T2B3	0-15'	01/13/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
T2B3	0-15'	01/13/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—

Table B-3: Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	Petroleum Hydrocarbons (milligrams per liter)				BTEX (micrograms per liter)					
			Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Total Xylenes
		CAS	DRO	GRO	ORO	TPH	71-43-2	100-41-4	179601-23-1	95-47-6	108-88-3	1330-20-7
T2B4	0-15'	01/13/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
T3B2	0-15'	01/14/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
T3B3	0-15'	01/13/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
T3B4	0-24'	01/13/2011	—	—	—	—	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	—
WP-266-09	38'	08/04/1993	—	—	—	—	1 U	1 U	—	—	1 U	2 U

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
BTEX = benzene, toluene, ethylbenzene, and xylenes; CAS = Chemical Abstracts Service Number

Table B-4: Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
		CAS	Aroclor-1016 12674-11-2	Aroclor-1221 11104-28-2	Aroclor-1232 11141-16-5	Aroclor-1242 53469-21-9	Aroclor-1248 12672-29-6	Aroclor-1254 11097-69-1	Aroclor-1260 11096-82-5	Aroclor-1262 37324-23-5	Aroclor-1268 11100-14-4	Total PCB Aroclors 1336-36-3
Area 1												
MW-16	08/29/1992	9'-9.5'	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U
MW-19	08/26/1992	9'-9.5'	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U
MW-20	08/28/1992	6'-6.5'	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U
* SB-08916	09/13/1994	2'	0.072 U	—	—	0.072 U	0.072 U	0.072 U	0.072 U	—	—	0.072 U
* SB-08916	09/13/1994	5'	0.083 U	—	—	0.083 U	0.083 U	0.083 U	0.083 U	—	—	0.083 U
* SB-08916	09/13/1994	12.5'	0.088 U	—	—	0.088 U	0.088 U	0.088 U	0.088 U	—	—	0.088 U
Area 2												
MW-13	08/27/1992	6'-6.5'	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U
Area 7												
* SB6	08/27/2004	0'-2'	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0594	0.0782	—	—	0.1376
* SB6	08/27/2004	2'-4'	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0905	0.0673	—	—	0.1578
* SB6	08/27/2004	4'-6'	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.122	0.0605	—	—	0.1825
* SB6	08/27/2004	6'-8'	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.145	0.0584	—	—	0.2034
* SB6	08/27/2004	8'-10'	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0935	0.113	—	—	0.2065
* SB6	08/27/2004	10'-12'	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.172	0.0938	—	—	0.2658
* SB6	08/27/2004	12'-14'	0.0106 U	0.0106 U	0.0106 U	0.0106 U	0.0106 U	0.133	0.0523	—	—	0.1853
* SB6	08/27/2004	14'-16'	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0404	0.0503	—	—	0.0907
* SB7	08/27/2004	0'-2'	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0683	0.0293	—	—	0.0976
* SB7	08/27/2004	2'-4'	0.0105 U	0.0105 U	0.0105 U	0.0105 U	0.0105 U	0.256	0.0952	—	—	0.3512
* SB7	08/27/2004	4'-6'	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	1.13	0.493	—	—	1.623
* SB7	08/27/2004	6'-8'	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.251	0.114	—	—	0.365
* SB7	08/27/2004	8'-10'	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.323	0.0967	—	—	0.4197
* SB7	08/27/2004	10'-12'	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.21	0.0924	—	—	0.3024
* SB7	08/27/2004	12'-14'	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.253	0.128	—	—	0.381
* SB7	08/27/2004	14'-16'	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.204	0.425	—	—	0.629
Area 8												
JF-SB3BA1-6	09/06/2013	2.5'e	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1.7	0.1 U	0.1 U	3.2	4.9
JF-SB3BA2-6	09/06/2013	2.5'	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
JF-SB3BA2-6	09/06/2013	2.5'	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
JF-SB3ESW-6	09/06/2013	1.5'	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
JF-SB3NSW-6	09/06/2013	1'	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.21	0.1 U	0.1 U	0.1 U	0.21
JF-SB4BA1-9	09/09/2013	6'	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
JF-SB4BA2-9	09/09/2013	6'	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.35	0.1 U	0.1 U	0.1 U	0.35
JF-SB4BA3-9	09/09/2013	6'	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
JF-SB4ESW-9	09/09/2013	3'	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
JF-SB4NSW-9	09/09/2013	4'	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	4.5	0.1 U	0.1 U	0.1 U	4.5
JF-SB4SSW-9	09/09/2013	4'	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
PEB-4	08/25/2014	0'-1'	0.096 U	0.096 U	0.096 U	0.096 U	1.9 U	11	1200 U	—	—	11
PEB-5	08/25/2014	0'-1'	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.2	0.056 U	—	—	0.256
PEB-6	08/25/2014	0'-1'	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	1.3	0.3 J	—	—	1.6

Table B-4: Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
		CAS	Aroclor-1016 12674-11-2	Aroclor-1221 11104-28-2	Aroclor-1232 11141-16-5	Aroclor-1242 53469-21-9	Aroclor-1248 12672-29-6	Aroclor-1254 11097-69-1	Aroclor-1260 11096-82-5	Aroclor-1262 37324-23-5	Aroclor-1268 11100-14-4	Total PCB Aroclors 1336-36-3
SB2	08/26/2004	0'-2'	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.396	0.0111 U	—	—	0.396
SB2	08/26/2004	2'-4'	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.0937	0.0251	—	—	0.1188
SB2	08/26/2004	4'-6'	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0294	0.0148	—	—	0.0442
SB2	08/26/2004	6'-8'	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.0282	0.0155	—	—	0.0437
SB2	08/26/2004	8'-10'	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.00618 J	—	—	0.00618 J
SB2	08/26/2004	10'-12'	0.0106 U	0.0106 U	0.0106 U	0.0106 U	0.0106 U	0.415	0.253	—	—	0.668
SB2	08/26/2004	12'-14'	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.00606 J	0.0102 U	—	—	0.0061
SB2	08/26/2004	14'-16'	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	—	—	0.00606 J
SB3	08/26/2004	0'-2'e	0.524 U	0.524 U	0.524 U	0.524 U	0.524 U	15.5	2.27	—	—	17.77
SB3	08/26/2004	2'-4'	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.174	0.0323	—	—	0.2063
SB3	08/26/2004	4'-6'	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.194	0.0334	—	—	0.2274
SB3	08/26/2004	6'-8'	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.0116 U	0.22	0.0385	—	—	0.2585
SB3	08/26/2004	8'-10'	0.0117 U	0.0117 U	0.0117 U	0.0117 U	0.0117 U	0.156	0.0695	—	—	0.2255
SB4	08/26/2004	0'-2'e	0.202 U	0.202 U	0.202 U	0.202 U	0.202 U	5.93	0.904	—	—	6.834
SB4	08/26/2004	2'-4'e	0.0562 U	0.0562 U	0.0562 U	0.0562 U	0.0562 U	1.15	0.774	—	—	1.924
SB4	08/26/2004	4'-6'e	0.587 U	0.587 U	0.587 U	0.587 U	0.587 U	9.86	1.47	—	—	11.33
SB4	08/26/2004	6'-8'	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.32	0.0768	—	—	0.3968
SB4	08/26/2004	8'-10'	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.0118 U	0.328	0.107	—	—	0.435
SB4	08/26/2004	10'-12'	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0127	0.00935 J	—	—	0.02205 J
SB4	08/26/2004	12'-14'	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	6.01	1.03	—	—	7.04
SB4	08/26/2004	14'-16'	0.118 U	0.118 U	0.118 U	0.118 U	0.118 U	1.37	0.19	—	—	1.56
SB5	08/26/2004	0'-2'	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0267	0.00801 J	—	—	0.03471 J
SB5	08/26/2004	2'-4'	0.0122 U	0.0122 U	0.0122 U	0.0122 U	0.0122 U	0.00778 J	0.00713 J	—	—	0.01491 J
SB5	08/26/2004	4'-6'	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.0112 U	0.049	0.014	—	—	0.063
SB5	08/26/2004	6'-8'	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.0116	0.00851 J	—	—	0.02011 J
SB5	08/26/2004	8'-10'	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0114 U	0.0967	0.0875	—	—	0.1842
SB5	08/26/2004	10'-12'	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.0528	0.0725	—	—	0.1253
SB5	08/26/2004	12'-14'	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.0505	0.0724	—	—	0.1229
SB5	08/26/2004	14'-16'	0.0128 U	0.0128 U	0.0128 U	0.0128 U	0.0128 U	0.0745	0.0989	—	—	0.1734
* SB6	08/27/2004	0'-2'	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0594	0.0782	—	—	0.1376
* SB6	08/27/2004	2'-4'	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0905	0.0673	—	—	0.1578
* SB6	08/27/2004	4'-6'	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.122	0.0605	—	—	0.1825
* SB6	08/27/2004	6'-8'	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.145	0.0584	—	—	0.2034
* SB6	08/27/2004	8'-10'	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0935	0.113	—	—	0.2065
* SB6	08/27/2004	10'-12'	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.172	0.0938	—	—	0.2658
* SB6	08/27/2004	12'-14'	0.0106 U	0.0106 U	0.0106 U	0.0106 U	0.0106 U	0.133	0.0523	—	—	0.1853
* SB6	08/27/2004	14'-16'	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0404	0.0503	—	—	0.0907
* SB7	08/27/2004	0'-2'	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0683	0.0293	—	—	0.0976
* SB7	08/27/2004	2'-4'	0.0105 U	0.0105 U	0.0105 U	0.0105 U	0.0105 U	0.256	0.0952	—	—	0.3512
* SB7	08/27/2004	4'-6'	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	1.13	0.493	—	—	1.623
* SB7	08/27/2004	6'-8'	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.251	0.114	—	—	0.365
* SB7	08/27/2004	8'-10'	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.323	0.0967	—	—	0.4197
* SB7	08/27/2004	10'-12'	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.0119 U	0.21	0.0924	—	—	0.3024
* SB7	08/27/2004	12'-14'	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.0111 U	0.253	0.128	—	—	0.381

Table B-4: Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
		CAS	Aroclor-1016 12674-11-2	Aroclor-1221 11104-28-2	Aroclor-1232 11141-16-5	Aroclor-1242 53469-21-9	Aroclor-1248 12672-29-6	Aroclor-1254 11097-69-1	Aroclor-1260 11096-82-5	Aroclor-1262 37324-23-5	Aroclor-1268 11100-14-4	Total PCB Aroclors 1336-36-3
* SB7	08/27/2004	14'-16'	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.204	0.425	—	—	0.629
Area 9												
* JF-DGP1	03/29/2012	0'-1.7'	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.08	0.086	0.038 U	0.038 U	0.166
JF-DGP1	03/29/2012	4.3'-6.1'	0.038 U	0.038 U	0.038 U	0.038 U	0.095 U	0.48	0.1	0.038 U	0.038 U	0.58
JF-DGP1	03/29/2012	8.7'-10.8'	1.2 U	1.2 U	1.2 U	1.2 U	4.8 U	21	3.5	1.2 U	1.2 U	24.5
JF-DGP1	03/29/2012	8.7'-10.8'	1.8 U	1.8 U	1.8 U	1.8 U	7.4 U	23	3.8	1.8 U	1.8 U	26.8
JF-DGP1	03/29/2012	13'-15.6'	2.1 U	2.1 U	2.1 U	2.1 U	43 U	99	13 U	2.1 U	2.1 U	99
JF-DGP1	03/29/2012	17.3'-19.9'	1.4 U	1.4 U	1.4 U	1.4 U	10 U	22	5.7	1.4 U	1.4 U	27.7
JF-DGP1	03/29/2012	17.3'-19.9'	1.3 U	1.3 U	1.3 U	1.3 U	13 U	22	5.1	1.3 U	1.3 U	27.1
JF-DGP1	03/29/2012	21.7'-24.2'	0.039 U	0.039 U	0.039 U	0.039 U	0.049 U	0.13	0.049	0.039 U	0.039 U	0.179
JF-DGP1	03/29/2012	24.2'-25.8'	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0034 J	0.0037 U	0.0037 U	0.0037 U	0.0034 J
JF-DGP1	03/29/2012	26'-28.6'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0058 U	0.019	0.0044	0.0039 U	0.0039 U	0.0234
JF-DGP2	03/29/2012	0'-2'	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.18	0.097	0.02 U	0.02 U	0.277
JF-DGP2	03/29/2012	5'-6.5'	0.45 U	0.45 U	0.45 U	0.45 U	3.4 U	11	2.5	0.45 U	0.45 U	13.5
JF-DGP2	03/29/2012	10'-11.8'	11 U	11 U	11 U	11 U	120	86	13	11 U	11 U	219
JF-DGP2	03/29/2012	15'-17'	0.077 U	0.077 U	0.077 U	0.077 U	0.12 U	0.33	0.072 J	0.077 U	0.077 U	0.402 J
JF-DGP2	03/29/2012	17'-19'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0042	0.0038 U	0.0038 U	0.0038 U	0.0042
JF-DGP2	03/29/2012	19'-19.8'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0048 U	0.0094	0.0022 J	0.0038 U	0.0038 U	0.0116 J
JF-DGP2	03/29/2012	20'-22'	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.12	0.074 U	0.074 U	0.074 U	0.12
JF-DGP2	03/29/2012	22'-24'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0047 U	0.0046	0.0038 U	0.0038 U	0.0038 U	0.0046
JF-DGP2	03/29/2012	24'-24.8'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0057 U	0.011	0.0038 U	0.0038 U	0.0038 U	0.011
JF-DGP2	03/29/2012	25'-27'	0.079 U	0.079 U	0.079 U	0.079 U	0.16 U	0.35	0.079 U	0.079 U	0.079 U	0.35
JF-DGP2	03/29/2012	27'-29'	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.19	0.078 U	0.078 U	0.078 U	0.19
JF-DGP3	03/28/2012	0'-2'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0096 U	0.044	0.046	0.0038 U	0.0038 U	0.09
JF-DGP3	03/28/2012	2'-3'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0026 J	0.0057 U	0.0038 U	0.0038 U	0.0026 J
JF-DGP3	03/28/2012	5'-7'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0048 U	0.012	0.0038 U	0.014	0.0038 U	0.026
JF-DGP3	03/28/2012	7'-7.5'	2.2 U	2.2 U	2.2 U	2.2 U	190	—	10 U	2.2 U	2.2 U	190
JF-DGP3	03/28/2012	10'-12'	2.1 U	2.1 U	2.1 U	2.1 U	180	150	—	2.1 U	2.1 U	330
JF-DGP3	03/28/2012	15'-16.5'	0.24 U	0.24 U	0.24 U	0.24 U	3.9	5.3	3.1	0.24 U	0.24 U	12.3
JF-DGP3	03/28/2012	20'-21'	0.16 U	0.16 U	0.16 U	0.16 U	1.8	3.3	1.2	0.16 U	0.16 U	6.3
JF-DGP3	03/28/2012	25'-27'	0.098 U	0.098 U	0.098 U	0.098 U	0.82	1.8	0.67	0.098 U	0.098 U	3.29
JF-DGP3	12/06/2012	25'-27'	0.031 U	0.031 U	0.031 U	0.031 U	0.039 U	0.18	0.031 U	0.031 U	0.031 U	0.18
JF-DGP3	03/28/2012	27'-29'	0.074 U	0.074 U	0.074 U	0.074 U	0.33	0.69	0.3	0.074 U	0.074 U	1.32
JF-DGP3	03/28/2012	27'-29'	0.074 U	0.074 U	0.074 U	0.074 U	0.26 U	0.57	0.21	0.074 U	0.074 U	0.78
JF-DGP3	03/28/2012	30'-32'	0.12 U	0.12 U	0.12 U	0.12 U	0.9 U	2.4	0.66	0.12 U	0.12 U	3.06
JF-DGP3	12/06/2012	32'-35'	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
JF-DGP3	12/06/2012	35'-37'	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
JF-DGP3	12/06/2012	35'-37'	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U
JF-DGP3	12/06/2012	37-39'	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
JF-DGP3	12/06/2012	40'-42'	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U
JF-DGP4	03/28/2012	0'-2'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.019 U	0.06	0.044	0.0039 U	0.0039 U	0.104
JF-DGP4	03/28/2012	2'-3'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 J	0.005	0.0038 U	0.0038 U	0.0088 J
JF-DGP4	03/28/2012	5'-7'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.015	0.0087	0.0038 U	0.0038 U	0.0237

Table B-4: Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
		CAS	Aroclor-1016 12674-11-2	Aroclor-1221 11104-28-2	Aroclor-1232 11141-16-5	Aroclor-1242 53469-21-9	Aroclor-1248 12672-29-6	Aroclor-1254 11097-69-1	Aroclor-1260 11096-82-5	Aroclor-1262 37324-23-5	Aroclor-1268 11100-14-4	Total PCB Aroclors 1336-36-3
JF-DGP4	03/28/2012	7'-8.75'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.028 U	0.12	0.044	0.0038 U	0.0038 U	0.164
JF-DGP4	03/28/2012	10'-12'	0.077 U	0.077 U	0.077 U	0.077 U	0.31 U	0.75	0.18	0.077 U	0.077 U	0.93
JF-DGP4	03/28/2012	12'-13.75'	0.58 U	0.58 U	0.58 U	0.58 U	2.9 U	8.9	0.88 U	0.58 U	0.58 U	8.9
JF-DGP4	03/28/2012	15'-17'	0.098 U	0.098 U	0.098 U	0.098 U	0.49 U	2.3	1.4	0.098 U	0.098 U	3.7
JF-DGP4	03/28/2012	17'-17.5'	0.26 U	0.26 U	0.26 U	0.26 U	1.9 U	5.8	0.64 U	0.26 U	0.26 U	5.8
JF-DGP4	03/28/2012	20'-22'	0.12 U	0.12 U	0.12 U	0.12 U	0.6 U	2.1	0.39	0.12 U	0.12 U	2.49
JF-DGP4	03/28/2012	22'-23.5'	0.077 U	0.077 U	0.077 U	0.077 U	0.38 U	1.3	0.17	0.077 U	0.077 U	1.47
JF-DGP4	03/28/2012	25'-27'	0.076 U	0.076 U	0.076 U	0.076 U	0.47 U	1.7	0.22	0.076 U	0.076 U	1.92
JF-DGP4	03/28/2012	25'-27'	0.074 U	0.074 U	0.074 U	0.074 U	0.37 U	1.4	0.18	0.074 U	0.074 U	1.58
JF-DGP4	03/28/2012	27'-29'	0.039 U	0.039 U	0.039 U	0.039 U	0.077 U	0.29	0.039 U	0.039 U	0.039 U	0.29
JF-DGP4	03/28/2012	29'-29.5'	0.077 U	0.077 U	0.077 U	0.077 U	0.38 U	1.2	0.12 U	0.077 U	0.077 U	1.2
JF-DGP4	03/28/2012	30'-32'	0.076 U	0.076 U	0.076 U	0.076 U	0.19 U	0.64	0.076 U	0.076 U	0.076 U	0.64
JF-DGP4	03/30/2012	32'-34'	0.038 U	0.038 U	0.038 U	0.038 U	0.38 U	0.71	0.082	0.038 U	0.038 U	0.792
JF-DGP5	03/29/2012	0'-2'	0.02 U	0.02 U	0.02 U	0.02 U	0.079 U	0.26	0.15	0.02 U	0.02 U	0.41
JF-DGP5	03/29/2012	5'-7'	0.076 U	0.076 U	0.076 U	0.076 U	0.76 U	1.9	0.23 U	0.076 U	0.076 U	1.9
JF-DGP5	03/29/2012	10'-12'	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.06	0.024 J	0.037 U	0.037 U	0.084 J
JF-DGP5	03/29/2012	12'-14'	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02	0.012 J	0.02 U	0.02 U	0.032 J
JF-DGP5	03/29/2012	14'-14.5'	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.028	0.014 J	0.019 U	0.019 U	0.042 J
JF-DGP5	03/29/2012	15'-17'	0.019 U	0.019 U	0.019 U	0.019 U	0.038 U	0.096	0.019 U	0.019 U	0.019 U	0.096
JF-DGP5	03/29/2012	17'-19'	0.019 U	0.019 U	0.019 U	0.019 U	0.053	0.13	0.025	0.019 U	0.019 U	0.208
JF-DGP5	03/29/2012	19'-19.8'	0.038 U	0.038 U	0.038 U	0.038 U	0.096 U	0.46	0.21	0.038 U	0.038 U	0.67
JF-DGP5	03/29/2012	20'-21.25'	0.037 U	0.037 U	0.037 U	0.037 U	0.19 U	0.84	0.46	0.037 U	0.037 U	1.3
JF-DGP5	03/29/2012	25'-27'	0.037 U	0.037 U	0.037 U	0.037 U	0.15 U	0.49	0.28	0.037 U	0.037 U	0.77
JF-DGP5	03/29/2012	27'-27.5'	0.037 U	0.037 U	0.037 U	0.037 U	0.093 U	0.29	0.052	0.037 U	0.037 U	0.342
JF-DGP6	03/30/2012	10'-12'	0.02 U	0.02 U	0.02 U	0.02 U	0.078 U	0.24	0.042	0.02 U	0.02 U	0.282
JF-DGP6	03/30/2012	12'-14'	2.3 U	2.3 U	2.3 U	2.3 U	12 U	42	5.2 U	2.3 U	2.3 U	42
JF-DGP6	03/30/2012	15'-17'	4.9 U	4.9 U	4.9 U	4.9 U	25 U	96	15 U	4.9 U	4.9 U	96
JF-DGP6	03/30/2012	17'-19'	3 U	3 U	3 U	3 U	15 U	43	9.7	3 U	3 U	52.7
JF-DGP6	03/30/2012	20'-22'	0.23 U	0.23 U	0.23 U	0.23 U	4.6 U	11	2.2	0.23 U	0.23 U	13.2
JF-DGP6	03/30/2012	22'-24'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.047 U	0.074	0.015	0.0038 U	0.0038 U	0.089
JF-DGP6	03/30/2012	24'-24.5'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.004	0.0039 U	0.0039 U	0.0039 U	0.004
JF-DGP6	03/30/2012	25'-27'	0.038 U	0.038 U	0.038 U	0.038 U	0.28 U	0.78	0.14	0.038 U	0.038 U	0.92
JF-DGP6	03/30/2012	27'-28.5'	0.02 U	0.02 U	0.02 U	0.02 U	0.032	0.1	0.02 U	0.02 U	0.02 U	0.132
JF-DGS1	03/27/2012	5'-7'	—	—	—	—	—	—	—	—	—	9.8
JF-DGS1	03/27/2012	10'-12'	—	—	—	—	—	—	—	—	—	1.69
JF-DGS1	03/27/2012	15'-17'	—	—	—	—	—	—	—	—	—	0.046
JF-DGS1	03/27/2012	17'-19'	—	—	—	—	—	—	—	—	—	0.0054
JF-DGS1	03/27/2012	20'-22'	—	—	—	—	—	—	—	—	—	0.38
JF-DGS1	03/27/2012	25'-27'	—	—	—	—	—	—	—	—	—	0.36
JF-DGS1	03/27/2012	30'-32'	—	—	—	—	—	—	—	—	—	0 U
JF-DGS2	03/28/2012	5'-7'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0076 U	0.0038 U	0.0076
JF-DGS2	03/28/2012	10'-12'	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	1	0.039 U	0.039 U	1
JF-DGS2	03/28/2012	15'-17'	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.32	0.0088 U	0.0088 U	0.32
JF-DGS2	03/28/2012	20'-22'	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U

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Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
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JF-DGS3	03/28/2012	5'-7'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0088	0.0038 U	0.0038 U	0.0088
JF-DGS3	03/28/2012	10'-12'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0099 J	0.0039 U	0.0039 U	0.0039 U	0.0099
JF-DGS3	03/28/2012	15'-17'	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.018 U	0.06 J	0.0036 U	0.0036 U	0.06
JF-DGS3	03/28/2012	20'-22'	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0056 U	0.018 J	0.032 J	0.0037 U	0.0037 U	0.05
JF-DGS3	03/28/2012	24'-24.8'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U
JF-DGS3	03/28/2012	30'-32'	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0045 U	0.0036 U	0.0036 U	0.0036 U
JF-DP01	04/19/2017	0'-2'	0.0179 U	0.0179 U	0.0179 U	0.0179 U	0.0179 U	0.197	0.429	—	—	0.626
JF-DP01	04/19/2017	2'-4'	0.0187 U	0.0187 U	0.0187 U	0.0187 U	0.0187 U	0.0187 U	0.045	—	—	0.045
JF-DP01	04/19/2017	4'-6'	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	12.7	44.8	—	—	57.5
JF-DP01	04/19/2017	6'-8'	0.929 U	0.929 U	0.929 U	0.929 U	0.929 U	10.3	18.3	—	—	28.6
JF-DP01	04/19/2017	8'-10'	0.192 U	0.192 U	0.192 U	0.192 U	0.192 U	0.802	1.79	—	—	2.59
JF-DP02	04/19/2017	0'-2'	0.145 U	0.145 U	0.145 U	0.145 U	0.145 U	0.217	0.624	—	—	0.841
JF-DP02	04/19/2017	2'-4'	0.0198 U	0.0198 U	0.0198 U	0.0198 U	0.0198 U	0.0663	0.115	—	—	0.181
JF-DP02	04/19/2017	4'-6'	0.193 U	0.193 U	0.193 U	0.193 U	0.193 U	1.95	5.56	—	—	7.51 J
JF-DP02	04/19/2017	6'-8'	1.46 U	1.46 U	1.46 U	1.46 U	1.46 U	16.2	54.3	—	—	70.5
JF-DP02	04/19/2017	8'-10'	4.72 U	4.72 U	4.72 U	4.72 U	4.72 U	50.6	86.6	—	—	137
JF-DP02	04/19/2017	10'-12'	0.189 U	0.189 U	0.189 U	0.189 U	1.77	3.84	1.43	—	—	7.04
JF-DP03	04/19/2017	0'-2'	0.0178 U	0.0178 U	0.0178 U	0.0178 U	0.0178 U	0.0812	0.336	—	—	0.417
JF-DP03	04/19/2017	2'-4'	7.47 U	7.47 U	7.47 U	7.47 U	7.47 U	26.8	87.1	—	—	114
JF-DP03	04/19/2017	4'-6'	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	44	149	—	—	193
JF-DP03	04/19/2017	6'-8'	0.0181 U	0.0181 U	0.0181 U	0.0181 U	0.0181 U	0.171	0.718	—	—	0.889
JF-DP04	04/19/2017	0'-2'	1.81 U	1.81 U	1.81 U	1.81 U	1.81 U	8	16.9	—	—	24.9
JF-DP04	04/19/2017	2'-4'	7.7 U	7.7 U	7.7 U	7.7 U	7.7 U	48.1	154	—	—	202
JF-DP04	04/19/2017	4'-6'	7.57 U	7.57 U	7.57 U	7.57 U	7.57 U	32.1	98.9	—	—	131
JF-DP04	04/19/2017	6'-8'	0.0185 U	0.0185 U	0.0185 U	0.0185 U	0.0185 U	0.0879	0.249	—	—	0.337
JF-DP05	04/19/2017	0'-2'	0.0179 U	0.0179 U	0.0179 U	0.0179 U	0.0179 U	0.133	0.273	—	—	0.406
JF-DP05	04/19/2017	2'-4'	1.89 U	1.89 U	1.89 U	1.89 U	1.89 U	5.51	14.6	—	—	20.1 J
JF-DP05	04/19/2017	4'-6'	0.188 U	0.188 U	0.188 U	0.188 U	0.188 U	0.855	2.73	—	—	6.57 J
JF-DP05	04/19/2017	6'-8'	0.0175 U	0.0175 U	0.0175 U	0.0175 U	0.0175 U	0.0175 U	0.0179	—	—	0.0179
JF-DP06	04/19/2017	0'-2'	0.0179 U	0.0179 U	0.0179 U	0.0179 U	0.0179 U	0.474	0.553	—	—	1.03
JF-DP06	04/19/2017	2'-4'	0.0183 U	0.0183 U	0.0183 U	0.0183 U	0.0183 U	0.0183 U	0.0393	—	—	0.0393
JF-DP06	04/19/2017	4'-6'	0.439 U	0.439 U	0.439 U	0.439 U	0.439 U	3.69	9.88	—	—	13.6
JF-DP06	04/19/2017	6'-8'	0.0185 U	0.0185 U	0.0185 U	0.0185 U	0.0185 U	0.0185 U	0.0123 J	—	—	0.0123 J
JF-DP07	04/19/2017	0'-2'	0.0898 U	0.0898 U	0.0898 U	0.0898 U	0.0898 U	0.681	1.32	—	—	2
JF-DP07	04/19/2017	2'-4'	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.41	4.56	—	—	5.97
JF-DP07	04/19/2017	4'-6'	1.94 U	1.94 U	1.94 U	1.94 U	1.94 U	8.22	27.3	—	—	35.5
JF-DP07	04/19/2017	6'-8'	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U	2.82	11.4	—	—	14.2
JF-DP07	04/19/2017	8'-10'	0.0919 U	0.0919 U	0.0919 U	0.0919 U	0.0919 U	0.497	1.08	—	—	1.58
JF-DP08	04/19/2017	0'-2'	0.0176 U	0.0176 U	0.0176 U	0.0176 U	0.0176 U	0.062	0.132	—	—	0.194
JF-DP08	04/19/2017	2'-4'	1.88 U	1.88 U	1.88 U	1.88 U	1.88 U	6.69	22	—	—	28.7
JF-DP08	04/19/2017	4'-6'	0.968 U	0.968 U	0.968 U	0.968 U	0.968 U	7.91	13	—	—	20.9
JF-DP08	04/19/2017	6'-8'	0.0187 U	0.0187 U	0.0187 U	0.0187 U	0.0187 U	0.0148	0.0192	—	—	0.034 J
JF-DP09	04/20/2017	4'-6'	—	—	—	—	—	—	—	—	—	0.0778 J
JF-DP09	04/20/2017	6'-8'	—	—	—	—	—	—	—	—	—	0.0193 U

Table B-4: Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
		CAS	Aroclor-1016 12674-11-2	Aroclor-1221 11104-28-2	Aroclor-1232 11141-16-5	Aroclor-1242 53469-21-9	Aroclor-1248 12672-29-6	Aroclor-1254 11097-69-1	Aroclor-1260 11096-82-5	Aroclor-1262 37324-23-5	Aroclor-1268 11100-14-4	Total PCB Aroclors 1336-36-3
JF-DP09	04/20/2017	8'-10'	—	—	—	—	—	—	—	—	—	0.0136 U
JF-DP10	04/20/2017	2'-4'	—	—	—	—	—	—	—	—	—	0.0163 J
JF-DP10	04/20/2017	4'-6'	—	—	—	—	—	—	—	—	—	0.349
JF-DP11	04/20/2017	2'-4'	—	—	—	—	—	—	—	—	—	0.0177 U
JF-DP11	04/20/2017	4'-6'	—	—	—	—	—	—	—	—	—	0.0482
JF-DP12	04/20/2017	4'-6'	—	—	—	—	—	—	—	—	—	0.103
JF-DP12	04/20/2017	6'-8'	—	—	—	—	—	—	—	—	—	0.0182 U
OA11-DP09	06/14/2016	2'-4'e	—	—	—	—	—	—	—	—	—	630
OA11-DP09	06/14/2016	4'-6'e	—	—	—	—	—	—	—	—	—	344
OA11-DP09	06/14/2016	6'-8'e	—	—	—	—	—	—	—	—	—	0.143
OA11-DP09	06/14/2016	8'-10'	—	—	—	—	—	—	—	—	—	0.0611
OA11-DP10	06/14/2016	2'-4'e	—	—	—	—	—	—	—	—	—	599
OA11-DP10	06/14/2016	6'-8'e	—	—	—	—	—	—	—	—	—	38.8
OA11-DP10	06/14/2016	8'-10'	—	—	—	—	—	—	—	—	—	0.0406 J
OA11-DP11	06/14/2016	2'-4'e	—	—	—	—	—	—	—	—	—	183
OA11-DP11	06/14/2016	6'-8'e	—	—	—	—	—	—	—	—	—	826
OA11-DP11	06/14/2016	8'-10'	—	—	—	—	—	—	—	—	—	7.02
OA11-DP11	06/14/2016	10'-12'	—	—	—	—	—	—	—	—	—	3.5
OA11-ex-S1	09/06/2016	4.25'	9.19 U	9.19 U	9.19 U	9.19 U	9.19 U	36.8 U	64.6	—	—	64.6
OA11-ex-S10	09/13/2016	2'	0.0171 U	0.0171 U	0.0171 U	0.0171 U	0.0171 U	0.226	0.0524	0.0171 U	0.0171 U	0.278
OA11-ex-S2	09/06/2016	4'	22.5 U	22.5 U	22.5 U	22.5 U	22.5 U	67.6 U	91.4	—	—	91.4
OA11-ex-S7	09/12/2016	3.6'	8.97 U	8.97 U	8.97 U	8.97 U	8.97 U	91.9	394	—	—	486
OA11-ex-S7	09/12/2016	6'	44.2 U	44.2 U	44.2 U	44.2 U	44.2 U	162	600	—	—	762
OA11-ex-S8	09/12/2016	3'	0.873 U	0.873 U	0.873 U	0.873 U	0.873 U	7.76	14.1	—	—	21.9
OA11-ex-S8	09/12/2016	6'	1.13 U	1.13 U	1.13 U	1.13 U	1.13 U	5.43	17	—	—	22.4
PEB-1	08/25/2014	0'-1'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.47	0.19	—	—	0.66
PEB-2	08/25/2014	0'-1'	0.0089 U	0.0089 U	0.0089 U	0.0089 U	0.0089 U	0.16	0.031	—	—	0.191
PEB-3	08/25/2014	0'-1'	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	—	—	0.0088 U
PL2-JF04A	02/16/2005	6'-8'	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	—	—	0.046 U
PL2-JF04A	02/16/2005	8'-10'	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	—	—	0.046 U
PL2-JF04A	02/16/2005	10'-12'	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	—	—	0.045 U
PL2-JF04A	02/16/2005	12'-14'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
PL2-JF04A	02/16/2005	14'-16'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
PL2-JF04A	02/16/2005	16'-18'	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	—	—	0.043 U
SB-07202	09/08/1994	1.75-2.75'	0.073 U	—	—	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	—	0.073 U
SB-07202	09/12/1994	5'-6.5'	0.035 U	—	—	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	—	0.035 U
SB-07202	09/12/1994	7.5'-8.5'	0.037 U	—	—	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	—	0.037 U
SB-07202	09/12/1994	12.5'-14'	0.045 U	—	—	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	—	0.045 U
SB-07206	09/21/1995	2'-3'	—	—	—	—	—	—	—	—	—	0.045 U
SB-07206	09/21/1995	8'-9'	—	—	—	—	—	—	—	—	—	0.045 U
SB-07206	09/21/1995	12.5'-13.5'	—	—	—	—	—	—	—	—	—	0.049 U
SB-07220	06/10/2003	0'-2'	0.036 U	0.073 U	0.036 U	0.036 U	0.036 U	0.11	0.11 U	—	0.11	0.22
SB-07220	06/10/2003	2'-4'	0.043 U	0.085 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	—	0.043 U	0.085 U
SB-07220	06/10/2003	4'-6'	0.043 U	0.086 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	—	0.043 U	0.086 U

Table B-4: Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
		CAS	Aroclor-1016 12674-11-2	Aroclor-1221 11104-28-2	Aroclor-1232 11141-16-5	Aroclor-1242 53469-21-9	Aroclor-1248 12672-29-6	Aroclor-1254 11097-69-1	Aroclor-1260 11096-82-5	Aroclor-1262 37324-23-5	Aroclor-1268 11100-14-4	Total PCB Aroclors 1336-36-3
SB-07220	06/10/2003	6'-8'	0.039 U	0.077 U	0.039 U	0.039 U	0.039 U	0.046	0.039 U	—	0.037 J	0.083 J
SB-07220	06/10/2003	8'-10'	0.038 U	0.076 U	0.038 U	0.038 U	0.038 U	0.073	0.059 U	—	0.059	0.132
SB-07220	06/10/2003	10'-12'	0.041 U	0.082 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	—	0.024 J	0.024 J
SB-07220	06/10/2003	12'-14'	0.044 U	0.088 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	0.044 U	0.088 U
SB-07220	06/10/2003	14'-16'	0.043 U	0.086 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	—	0.043 U	0.086 U
SB-07228	06/10/2003	0'-2'	0.036 U	0.073 U	0.036 U	0.036 U	0.036 U	0.056	0.054 U	—	0.044	0.1
SB-07228	06/10/2003	2'-4'	0.037 U	0.073 U	0.037 U	0.037 U	0.037 U	0.2	0.039 U	—	0.037 U	0.2
SB-07228	06/10/2003	4'-6'	0.038 U	0.076 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	—	0.038 U	0.076 U
SB-07228	06/10/2003	6'-8'	0.045 U	0.089 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	—	0.045 U	0.089 U
SB-07228	06/10/2003	8'-10'	0.045 U	0.09 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	—	0.045 U	0.09 U
SB-07228	06/10/2003	10'-12'	0.044 U	0.087 U	0.044 U	0.044 U	0.044 U	0.053 U	0.1	—	0.044 U	0.1
SB-07228	06/10/2003	12'-14'	0.048 U	0.096 U	0.048 U	0.048 U	0.048 U	0.048 U	0.034 J	—	0.048 U	0.034 J
SB-07228	06/10/2003	14'-16'	0.043 U	0.085 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	—	0.043 U	0.085 U
SB-07229r	02/14/2005	6'-8'	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	—	—	0.064 U
SB-07229r	02/14/2005	8'-10'	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	—	—	0.036 U
SB-07229r	02/14/2005	10'-12'	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	—	—	0.047 U
SB-07229r	02/14/2005	12'-14'	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	—	—	0.045 U
SB-07229r	02/14/2005	14'-16'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
SB-07230r	02/14/2005	6'-8'	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	—	—	0.036 U
SB-07230r	02/14/2005	8'-10'	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	—	—	0.04 U
SB-07230r	02/14/2005	10'-12'	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	—	—	0.048 U
SB-07230r	02/14/2005	12'-14'	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	—	—	0.045 U
SB-07230r	02/14/2005	14'-16'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
SB-07231r	02/14/2005	6'-8'	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	—	—	0.036 U
SB-07231r	02/14/2005	8'-10'	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	—	—	0.039 U
SB-07231r	02/14/2005	10'-12'	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	—	—	0.046 U
SB-07231r	02/14/2005	12'-14'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
SB-07231r	02/14/2005	14'-16'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
SB-07232r	02/14/2005	6'-8'	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	—	—	0.037 U
SB-07232r	02/14/2005	8'-10'	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	—	—	0.047 U
SB-07232r	02/14/2005	10'-12'	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	—	—	0.049 U
SB-07232r	02/14/2005	12'-14'	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	—	—	0.046 U
SB-07232r	02/14/2005	14'-16'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.088 U	—	—	0.088 U
SB-07233r	02/14/2005	6'-8'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.22 U	—	—	0.22 U
SB-07233r	02/14/2005	8'-10'	0.044 U	0.088 U	0.13 U	0.088 U	0.044 U	0.13 U	0.22 U	—	—	0.22 U
SB-07233r	02/14/2005	10'-12'	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	—	—	0.046 U
SB-07233r	02/14/2005	12'-14'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
SB-07233r	02/14/2005	14'-16'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
SB-07234	06/10/2003	0'-2'	0.034 U	0.069 U	0.034 U	0.034 U	0.034 U	0.03 J	0.052	0.034 U	0.034 U	0.082 J
SB-07234	06/10/2003	2'-4'	0.038 U	0.075 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.075 U
SB-07234	06/10/2003	4'-6'	0.04 U	0.08 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.08 U
SB-07234	06/10/2003	6'-8'	0.043 U	0.087 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.087 U
SB-07234	06/10/2003	8'-10'	0.039 U	0.078 U	0.039 U	0.039 U	0.039 U	0.025 J	0.039 U	0.039 U	0.039 U	0.078 U
SB-07234	06/10/2003	10'-12'	0.043 U	0.087 U	0.043 U	0.043 U	0.043 U	0.045	0.062	0.043 U	0.043 U	0.107

Table B-4: Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
			Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCB Aroclors
		CAS	12674-11-2	11104-28-2	11141-16-5	53469-21-9	12672-29-6	11097-69-1	11096-82-5	37324-23-5	11100-14-4	1336-36-3
SB-07234	06/10/2003	12'-14'	0.043 U	0.086 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.086 U
SB-07234	06/10/2003	14'-16'	0.042 U	0.084 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.084 U
SB-07245	06/10/2003	0'-2'	0.038 U	0.075 U	0.038 U	0.038 U	0.038 U	0.072	0.038 U	0.045 U	0.038 U	0.072
SB-07245	06/10/2003	2'-4'	0.042 U	0.085 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.051 U	0.042 U	0.085 U
SB-07245	06/10/2003	4'-6'	0.038 U	0.077 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.046 U	0.038 U	0.077 U
SB-07245	06/10/2003	6'-8'	0.038 U	0.075 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.045 U	0.038 U	0.075 U
SB-07245	06/10/2003	8'-10'	0.042 U	0.085 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.051 U	0.042 U	0.085 U
SB-07245	06/10/2003	10'-12'	0.039 U	0.079 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.047 U	0.039 U	0.079 U
SB-07245	06/10/2003	12'-14'	0.044 U	0.088 U	0.044 U	0.044 U	0.044 U	0.023 J	0.044 U	0.053 U	0.044 U	0.023 J
SB-07245	06/10/2003	14'-16'	0.042 U	0.085 U	0.042 U	0.042 U	0.042 U	0.047	0.042 U	0.051 U	0.042 U	0.047
SB-07246	06/10/2003	0'-2'	0.036 U	0.072 U	0.036 U	0.036 U	0.036 U	0.036 U	0.13	0.036 U	0.071	0.201
SB-07246	06/10/2003	2'-4'	0.036 U	0.072 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.072 U
SB-07246	06/10/2003	4'-6'	0.039 U	0.078 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.078 U
SB-07246	06/10/2003	6'-8'	0.037 U	0.074 U	0.037 U	0.037 U	0.037 U	0.051	0.061	0.037 U	0.027 J	0.139 J
SB-07246	06/10/2003	10'-12'	0.044 U	0.089 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.089 U
SB-07246	06/10/2003	12'-14'	0.047 U	0.095 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.095 U
SB-07246	06/10/2003	14'-16'	0.046 U	0.091 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.091 U
SB-07247	06/10/2003	0'-2'	0.037 U	0.074 U	0.037 U	0.037 U	0.037 U	0.11	0.098 U	—	0.085	0.195 J
SB-07247	06/10/2003	2'-4'	0.039 U	0.078 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	—	0.039 U	0.078 U
SB-07247	06/10/2003	4'-6'	0.041 U	0.082 U	0.041 U	0.041 U	0.041 U	0.041 U	0.041 U	—	0.041 U	0.082 U
SB-07247	06/10/2003	6'-8'	0.037 U	0.074 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	—	0.02 J	0.02 J
SB-07247	06/10/2003	8'-10'	0.039 U	0.078 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	—	0.039 U	0.078 U
SB-07247	06/10/2003	10'-12'	0.047 U	0.093 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	—	0.047 U	0.093 U
SB-07247	06/10/2003	12'-14'	0.046 U	0.091 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	—	0.046 U	0.091 U
SB-07247	06/10/2003	14'-16'	0.043 U	0.086 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	—	0.043 U	0.086 U
SB-07249	02/15/2005	0'-2'	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.2	0.22 U	—	—	0.2
SB-07249	02/15/2005	2'-4'	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	—	—	0.039 U
SB-07249	02/15/2005	4'-6'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
SB-07249	02/15/2005	6'-8'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
SB-07249	02/15/2005	8'-10'	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	—	—	0.04 U
SB-07249	02/15/2005	10'-12'	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	—	—	0.043 U
SB-07249	02/15/2005	12'-14'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
SB-07249	02/15/2005	14'-16'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
SB-07250	02/14/2005	0'-2'	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.64	0.5 J	—	—	1.14 J
SB-07250	02/14/2005	2'-4'	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	3	—	—	3
SB-07250	02/14/2005	4'-6'	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.086 U	0.11	—	—	0.11
SB-07250	02/14/2005	6'-8'	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	0.045 U	—	—	0.045 U
SB-07250	02/14/2005	8'-10'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.18 U	0.5	—	—	0.5
SB-07250	02/14/2005	10'-12'	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	—	—	0.04 U
SB-07250	02/14/2005	12'-14'	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	0.043 U	—	—	0.043 U
SB-07250	02/14/2005	14'-16'	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
SB-07252	02/15/2005	0'-2'	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.59 U	0.49	—	—	0.49
SB-07252	02/15/2005	2'-4'	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	—	—	0.032 U
SB-07253	02/15/2005	0'-2'	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.13	—	—	0.13

Table B-4: Polychlorinated Biphenyls in Soil

	Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
				Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCB Aroclors
			CAS	12674-11-2	11104-28-2	11141-16-5	53469-21-9	12672-29-6	11097-69-1	11096-82-5	37324-23-5	11100-14-4	1336-36-3
	SB-07253	02/15/2005	2'-4'	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	—	—	0.032 U
	SB-07253	02/15/2005	4'-6'	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	—	—	0.032 U
	SB-07253	02/15/2005	6'-8'	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	—	—	0.033 U
	SB-07253	02/15/2005	8'-10'	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	—	—	0.033 U
	SB-07253	02/15/2005	10'-12'	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	—	—	0.032 U
*	SB-08916	09/13/1994	2'	0.072 U	—	—	0.072 U	0.072 U	0.072 U	0.072 U	—	—	0.072 U
*	SB-08916	09/13/1994	5'	0.083 U	—	—	0.083 U	0.083 U	0.083 U	0.083 U	—	—	0.083 U
*	SB-08916	09/13/1994	12.5'	0.088 U	—	—	0.088 U	0.088 U	0.088 U	0.088 U	—	—	0.088 U
	SB-09101	09/12/1994	2'	0.035 U	—	—	0.035 U	0.035 U	0.035 U	0.035 U	—	—	0.035 U
	SB-09101	09/12/1994	5'	0.036 U	—	—	0.036 U	0.036 U	0.036 U	0.036 U	—	—	0.036 U
	SB-09101	09/12/1994	12.5'	0.045 U	—	—	0.045 U	0.045 U	0.045 U	0.045 U	—	—	0.045 U
	SB-09105	09/12/1994	2'	0.035 U	—	—	0.035 U	0.035 U	0.035 U	0.07 U	—	—	0.07 U
	SB-09105	09/12/1994	5'	0.036 U	—	—	0.036 U	0.036 U	0.036 U	0.036 U	—	—	0.036 U
	SB-09105	09/12/1994	12.5'	0.044 U	—	—	0.044 U	0.044 U	0.044 U	0.044 U	—	—	0.044 U
	SB-09106	09/12/1994	2'	0.035 U	—	—	0.035 U	0.035 U	0.035 U	0.069 J	—	—	0.069 J
	SB-09106	09/12/1994	5'	0.083 U	—	—	0.083 U	0.042 U	0.042 U	0.042 U	—	—	0.083 U
	SB-09106	09/12/1994	12.5'	0.045 U	—	—	0.045 U	0.045 U	0.045 U	0.045 U	—	—	0.045 U
	SB1	08/26/2004	0'-2'	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0101 U	0.0908	0.105	—	—	0.1958
	SB1	08/26/2004	2'-4'	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.0103 U	0.007 J	—	—	0.007 J
	SB1	08/26/2004	4'-6'	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0109 U	0.0035 J	—	—	0.0035 J
	SB1	08/26/2004	6'-8'	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	—	—	0.00568 J
	SB1	08/26/2004	8'-10'	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.00568 J	—	—	0.0057
	SB1	08/26/2004	10'-12'	0.0136 U	0.0136 U	0.0136 U	0.0136 U	0.0136 U	0.0136 U	0.0136 U	—	—	0.0136 U
	T2B1	01/13/2011	3'-5'	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0098	0.004 U	0.004 U
	T2B1	01/13/2011	8'-10'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U
	T2B1	01/13/2011	13'-15'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U
	T2B2	01/13/2011	3'-5'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0045	0.0039 U	0.0039 U
	T2B2	01/13/2011	8'-10'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0049 U	0.0039 U	0.0039 U	0.0049 U
	T2B2	01/13/2011	13'-15'	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
	T2B3	01/13/2011	2'-4'	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.034	0.051	0.0079 U	0.0079 U	0.085
	T2B3	01/13/2011	8'-10'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0067	0.0039 U	0.0039 U
	T2B3	01/13/2011	13'-15'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.004	0.0039 U	0.0039 U
	T2B4	01/13/2011	3'-5'	0.15 U	0.15 U	0.15 U	0.15 U	0.44 U	1.3	0.24	0.15 U	0.15 U	1.54
	T2B4	01/13/2011	18'-20'	12 U	12 U	12 U	12 U	120 U	220	54	12 U	12 U	274
	T2B4	01/13/2011	23'-25'	3.9 U	3.9 U	3.9 U	3.9 U	29 U	61	11	3.9 U	3.9 U	72
	T2B4	12/06/2012	27'-28.3'	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.4	0.13 U	0.13 U	0.13 U	0.4
	T2B4	12/06/2012	30'-32'	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.52	0.12 U	0.12 U	0.12 U	0.52
	T2B4	12/06/2012	32'-32.3'	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.39	0.12 U	0.12 U	0.12 U	0.39
	T2B4	12/06/2012	35'-37'	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.56	0.12 U	0.12 U	0.12 U	0.56
	T2B4	12/06/2012	37-39'	0.033 U	0.033 U	0.033 U	0.033 U	0.033 U	0.09	0.033 U	0.033 U	0.033 U	0.09
	T2B4	12/06/2012	40'-42'	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	2.1	0.31 U	0.31 U	0.31 U	2.1
	T2B4	12/06/2012	40'-42'	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	2.4	0.63 U	0.63 U	0.63 U	2.4
	T3B1	01/13/2011	3'-5'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U
	T3B1	01/13/2011	8'-10'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U

Table B-4: Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
		CAS	Aroclor-1016 12674-11-2	Aroclor-1221 11104-28-2	Aroclor-1232 11141-16-5	Aroclor-1242 53469-21-9	Aroclor-1248 12672-29-6	Aroclor-1254 11097-69-1	Aroclor-1260 11096-82-5	Aroclor-1262 37324-23-5	Aroclor-1268 11100-14-4	Total PCB Aroclors 1336-36-3
T3B1	01/13/2011	13'-15'	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.017 U	0.037	0.0085 U	0.028	0.0085 U	0.037
T3B2	01/13/2011	3'-5'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.013	0.0038 U	0.0038 U
T3B2	01/13/2011	8'-10'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U
T3B2	01/13/2011	13'-15'	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.017 U	0.034	0.0066 U	0.0066 U	0.0066 U	0.034
T3B2	01/13/2011	13'-15'	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.021 U	0.054	0.0084 U	0.0084 U	0.0084 U	0.054
T3B3	01/13/2011	3'-5'	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.013 U	0.0085 U	0.14	0.0085 U	0.013 U
T3B3	01/13/2011	8'-10'	0.02 U	0.02 U	0.02 U	0.02 U	0.079 U	0.27	0.4	0.02 U	0.02 U	0.67
T3B3	01/13/2011	13'-15'	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.022 U	0.054	0.0088 U	0.0088 U	0.054
T3B4	01/13/2011	3'-5'	0.013 U	0.013 U	0.013 U	0.013 U	0.17 U	0.54	0.29	0.013 U	0.013 U	0.83
T3B4	01/13/2011	13'-15'	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.016	0.011	0.0038 U	0.0038 U	0.027
T3B4	01/13/2011	23'-25'	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0045	0.0039 U	0.0039 U	0.0039 U	0.0045

NOTES:

Bold text indicates a detected result.

Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).

* Sample appears twice in table because it is located within overlapping Site areas.

J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.

R = result rejected due to quality control failures.

U = analyte not detected above the indicated reporting limit.

CAS = = Chemical Abstracts Service Number; PCB = polychlorinated biphenyls

Table B-5: Polychlorinated Biphenyls in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
			CAS	Aroclor-1016 12674-11-2	Aroclor-1221 11104-28-2	Aroclor-1232 11141-16-5	Aroclor-1242 53469-21-9	Aroclor-1248 12672-29-6	Aroclor-1254 11097-69-1	Aroclor-1260 11096-82-5	Aroclor-1262 37324-23-5	Aroclor-1268 11100-14-4	Total PCB Aroclors 1336-36-3
Area 1													
*	MW-23		03/31/2017	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	—
*	MW-24	6'-19.75'	04/11/2003	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	—	—	0.0478 U
*	MW-24		08/25/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
	MW-25	6'-19.75'	04/11/2003	0.0475 U	0.0475 U	0.0475 U	0.0475 U	0.0475 U	0.0475 U	0.0475 U	—	—	0.0475 U
	MW-30		08/18/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
	MW-48		03/31/2017	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	—
*	MW-49		08/17/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
Area 2													
	MW-7	10'-20'	04/11/2003	0.0477 U	0.0477 U	0.0477 U	0.0477 U	0.0477 U	0.0477 U	0.0477 U	—	—	0.0477 U
	MW-7	10'-20'	06/16/2003	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
	MW-13	5'-20'	09/10/1992	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U
	MW-15	5'-20'	04/11/2003	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	—	—	0.0476 U
	MW-32		08/24/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
	MW-36		04/11/2003	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	—	—	0.0478 U
Area 5													
	MW-41		08/21/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
Area 6													
*	MW-6	10'-20'	04/11/2003	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	—	—	0.0478 U
*	MW-6	10'-20'	06/16/2003	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	**0.13**	**0.28**	0.01 U	0.01 U	**0.41**
*	MW-6	10'-20'	01/30/2008	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U
*	MW-6		08/21/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
*	MW-6		02/13/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
	MW-31	5'-19'	05/07/1993	0.021 U	0.052 U	0.052 U	0.021 U	0.021 U	0.021 U	0.021 U	—	—	0.052 U
	MW-31	5'-19'	04/11/2003	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	—	—	0.0476 U
	MW-45		02/06/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
Area 7													
*	MW-39		08/28/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
*	MW-42		08/23/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
*	MW-42		02/14/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
*	MW-43		08/24/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
*	MW-43		02/14/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
*	MW-44		08/23/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
*	MW-44		02/14/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—

Table B-5: Polychlorinated Biphenyls in Groundwater

	Sample Location	Sample Depth	Sample Date	Aroclor-1016 12674-11-2	Aroclor-1221 11104-28-2	Aroclor-1232 11141-16-5	Aroclor-1242 53469-21-9	Aroclor-1248 12672-29-6	Aroclor-1254 11097-69-1	Aroclor-1260 11096-82-5	Aroclor-1262 37324-23-5	Aroclor-1268 11100-14-4	Total PCB Aroclors 1336-36-3
			CAS				(micrograms per liter)						
Area 8													
*	MW-6	10'-20'	04/11/2003	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	—	—	0.0478 U
*	MW-6	10'-20'	06/16/2003	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	**0.13**	**0.28**	0.01 U	0.01 U	**0.41**
*	MW-6	10'-20'	01/30/2008	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U
*	MW-6		08/21/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
*	MW-6		02/13/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
*	MW-39		08/28/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
*	MW-42		08/23/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
*	MW-42		02/14/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
*	MW-43		08/24/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
*	MW-43		02/14/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
*	MW-44		08/23/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
*	MW-44		02/14/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
	MW-47		08/24/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
	MW-47		02/12/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
	PL2-JF03A	8'-22.75'	04/10/2003	0.0477 U	0.0477 U	0.0477 U	0.0477 U	0.0477 U	0.0477 U	0.0477 U	—	—	0.0477 U
Area 9													
	GP-06601	13'	09/12/1994	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	GP-06602	14'	09/13/1994	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	GP-06603	14'	09/12/1994	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	GP-06604	14'	09/13/1994	17 U	—	—	17 U	1 U	1 U	1 U	—	—	17 U
	GP-09101	15'	09/12/1994	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	GP-09102	14'	09/08/1994	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	GP-09103	14'	09/08/1994	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	MW-5	10'-20'	04/10/2003	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	—	—	0.0478 U
*	MW-23		03/31/2017	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	—
*	MW-24	6'-19.75'	04/11/2003	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	0.0478 U	—	—	0.0478 U
*	MW-24		08/25/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
*	MW-49		08/17/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
	MW-50		08/16/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
	MW-50		02/14/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
	MW-51		03/31/2017	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	—
	MW-51		08/25/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
	MW-51		02/14/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
	MW-52		08/18/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
	MW-52		08/18/2017	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	0.147 U
	MW-52		02/06/2018	0.13 U	0.147 U	0.147 U	0.147 U	0.13 U	0.13 U	0.147 U	0.147 U	0.147 U	—
	PL2-JF01A		09/27/1995	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	PL2-JF01A		11/17/1995	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	PL2-JF01A		03/01/1996	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	PL2-JF01A		05/23/1996	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	PL2-JF01A		08/26/1996	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	PL2-JF01A		11/21/1996	1 U	—	—	1 U	1 U	1 U	1 U	—	—	1 U
	PL2-JF01A		02/17/2005	0.015 U	0.01 U	0.03 U	0.02 U	0.025 U	0.015 U	0.01 U	—	—	0.03 U
	PL2-JF01A		02/17/2005	0.02 U	0.01 U	0.035 U	0.025 U	0.025 U	0.015 U	0.01 U	—	—	0.035 U
	PL2-JF01AR	23'-27'	06/16/2003	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
	PL2-JF01AR	23'-27'	07/31/2006	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	—	—	0.01 U
	PL2-JF01AR	23.2'-27'	08/23/2006	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	—	—	0.01 U
	PL2-JF01AR	23.2'-27'	08/01/2007	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.014 J**	0.01 U	—	—	**0.014**

Table B-5: Polychlorinated Biphenyls in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	Aroclor-1016 12674-11-2	Aroclor-1221 11104-28-2	Aroclor-1232 11141-16-5	Aroclor-1242 53469-21-9	Aroclor-1248 12672-29-6	Aroclor-1254 11097-69-1	Aroclor-1260 11096-82-5	Aroclor-1262 37324-23-5	Aroclor-1268 11100-14-4	Total PCB Aroclors 1336-36-3
PL2-JF01B	40'-50'	08/01/2007	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	—	—	0.01 U
PL2-JF01C	74'-78.5'	08/01/2007	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	—	—	0.01 U
PL2-JF02A	8'-22.75'	04/10/2003	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	0.0476 U	—	—	0.0476 U
PL2-JF02A	8'-22.75'	06/16/2003	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
PL2-JF02A	5.5'-23'	08/01/2007	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	—	—	0.01 U
PL2-JF04A		02/18/2005	0.02 U	0.01 U	0.05 U	0.03 U	0.04 U	0.01 U	0.015 U	—	—	0.05 U
PL2-JF04A	8'-18'	08/23/2006	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	—	—	0.015 U
SB-07230	6'-8'	06/11/2003	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1.2 U	1 U	2 U
SB-07233	6'-8'	06/11/2003	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1.2 U	1 U	2 U
SB-07234	2'-4'	06/10/2003	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1.2 U	1 U	2 U
SB-07238	6'-8'	06/13/2003	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1.2 U	1 U	2 U
SB-07239	6'-8'	06/12/2003	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1.2 U	1 U	2 U
SB-07242	6'-8'	06/13/2003	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1.2 U	1 U	2 U
SB-07243	6'-8'	06/12/2003	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1.2 U	1 U	2 U
SB-07244	6'-8'	06/11/2003	1 U	2 U	1 U	1 U	1 U	1 U	1 U	1.2 U	1 U	2 U
T2B2	0-15'	01/13/2011	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
T2B3	0-15'	01/13/2011	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
T2B3	0-15'	01/13/2011	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
T2B4	0-15'	01/13/2011	0.2 U	0.2 U	0.2 U	0.2 U	**1.8**	**2.5**	0.2 U	0.2 U	0.2 U	**4.3**
T3B2	0-15'	01/14/2011	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
T3B3	0-15'	01/13/2011	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.018**	**0.017**	0.014 U	0.01 U	**0.035**
T3B4	0-24'	01/13/2011	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

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = = Chemical Abstracts Service Number; PCB = polychlorinated biphenyls

Table B-6: Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Date	Sample Depth	Benzo(a)pyrene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Total cPAH TEQ
		CAS	50-32-8	56-55-3	205-99-2	207-08-9	218-01-9	53-70-3	193-39-5	TOT_PAH
			(milligrams per kilogram)							
Area 1										
* SB-08918	09/13/1994	2'	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	ND
* SB-08918	09/13/1994	5'	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	ND
* SB-08918	09/13/1994	12.5'	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	ND
* SB-08918	09/13/1994	12.5'	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	ND
Area 5										
MW-41	07/19/2008	5'	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	ND
MW-41	07/19/2008	10'	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	ND
MW-41	07/19/2008	20'	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	ND
MW-41	07/19/2008	30'	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	ND
Area 8										
JF-SB3BA1-6	09/06/2013	2.5'	**0.012 J**	**0.0099**	**0.2 J**	**0.0075 J**	**0.14**	**0.0032 J**	**0.0079 J**	**0.03625**
JF-SB3NSW-6	09/06/2013	1'	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	ND
JF-SB4BA2-9	09/09/2013	6'	**0.24**	**0.21**	**0.77**	**0.3**	**0.39**	**0.11**	**0.53**	**0.4359**
JF-SB4NSW-9	09/09/2013	4'	**0.24 J**	**0.22 J**	**0.79 J**	**0.27**	**0.41 J**	**0.13**	**0.48**	**0.4331**
PEB-4	08/25/2014	0'-1'	**0.19**	**0.19**	—	—	**0.29**	**0.034**	**0.11**	**0.2263**
PEB-5	08/25/2014	0'-1'	0.019 U	0.019 U	—	—	0.019 U	0.019 U	0.019 U	ND
PEB-6	08/25/2014	0'-1'	**0.052**	**0.31**	—	—	**0.066**	**0.016 J**	**0.055**	**0.09076**
Area 9										
JF-DGP2	03/29/2012	0'-10'	0.11 U	0.11 U	—	—	**0.074 J**	0.11 U	0.11 U	**0.07224**
JF-DGP2	03/29/2012	10'-20'	**0.014 J**	0.02 U	—	—	**0.017 J**	0.02 U	0.02 U	**0.01717**
JF-DGP2	03/29/2012	20'-30'	0.019 U	0.019 U	—	—	0.019 U	0.019 U	0.019 U	ND
JF-DGP5	03/29/2012	0'-10'	0.11 U	0.11 U	—	—	**0.095 J**	0.11 U	0.11 U	**0.07245**
JF-DGP5	03/29/2012	10'-20'	0.11 U	0.11 U	—	—	**0.12**	0.11 U	0.11 U	**0.0727**
JF-DGP5	03/29/2012	20'-30'	0.055 U	0.055 U	—	—	0.055 U	0.055 U	0.055 U	ND
PEB-1	08/25/2014	0'-1'	**0.52**	**0.73**	—	—	**0.8**	**0.077**	**0.21**	**0.6297**
PEB-2	08/25/2014	0'-1'	0.058 U	0.058 U	—	—	0.058 U	0.058 U	0.058 U	ND
PEB-3	08/25/2014	0'-1'	0.019 U	**0.014 J**	—	—	**0.031**	0.019 U	0.019 U	**0.01311**
* SB-08918	09/13/1994	2'	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	ND
* SB-08918	09/13/1994	5'	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	ND
* SB-08918	09/13/1994	12.5'	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	ND
* SB-08918	09/13/1994	12.5'	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	ND
T2B1	01/13/2011	3'-5'	0.066 U	0.066 U	—	—	0.066 U	0.066 U	0.066 U	ND
T2B1	01/13/2011	8'-10'	0.062 U	0.062 U	—	—	0.062 U	0.062 U	0.062 U	ND
T2B1	01/13/2011	13'-15'	0.062 U	0.062 U	—	—	0.062 U	0.062 U	0.062 U	ND
T2B2	01/13/2011	3'-5'	**0.26**	**0.26**	—	—	**0.27**	0.061 U	**0.089**	**0.30065**
T2B2	01/13/2011	8'-10'	**0.73**	**0.23**	—	—	**0.3**	**0.42**	**0.24**	**0.822**
T2B2	01/13/2011	13'-15'	0.065 U	0.065 U	—	—	0.065 U	0.065 U	0.065 U	ND
T2B3	01/13/2011	2'-4'	0.064 U	0.064 U	—	—	0.064 U	0.064 U	0.064 U	ND
T2B3	01/13/2011	8'-10'	0.06 U	0.06 U	—	—	0.06 U	0.06 U	0.06 U	ND
T2B3	01/13/2011	13'-15'	0.065 U	0.065 U	—	—	0.065 U	0.065 U	0.065 U	ND
T2B4	01/13/2011	3'-5'	0.063 U	0.063 U	—	—	**0.081**	0.063 U	0.063 U	**0.04176**
T2B4	01/13/2011	18'-20'	0.12 U	0.12 U	—	—	0.12 U	0.12 U	0.12 U	ND
T2B4	01/13/2011	23'-25'	0.062 U	0.062 U	—	—	0.062 U	0.062 U	0.062 U	ND
T3B1	01/13/2011	3'-5'	0.064 U	0.064 U	—	—	0.064 U	0.064 U	0.064 U	ND
T3B1	01/13/2011	8'-10'	0.06 U	0.06 U	—	—	0.06 U	0.06 U	0.06 U	ND
T3B1	01/13/2011	13'-15'	0.062 U	0.062 U	—	—	0.062 U	0.062 U	0.062 U	ND
T3B2	01/13/2011	3'-5'	0.06 U	0.06 U	—	—	0.06 U	0.06 U	0.06 U	ND

Table B-6: Carcinogenic Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)							
		CAS	Benzo(a)pyrene 50-32-8	Benzo(a)anthracene 56-55-3	Benzo(b)fluoranthene 205-99-2	Benzo(k)fluoranthene 207-08-9	Chrysene 218-01-9	Dibenz(a,h)anthracene 53-70-3	Indeno(1,2,3-cd)pyrene 193-39-5	Total cPAH TEQ TOT_PAH
T3B2	01/13/2011	8'-10'	0.066 U	0.066 U	—	—	0.066 U	0.066 U	0.066 U	ND
T3B2	01/13/2011	13'-15'	0.062 U	0.062 U	—	—	0.062 U	0.062 U	0.062 U	ND
T3B2	01/13/2011	13'-15'	0.061 U	0.061 U	—	—	0.061 U	0.061 U	0.061 U	ND
T3B3	01/13/2011	3'-5'	0.064 U	0.064 U	—	—	0.064 U	0.064 U	0.064 U	ND
T3B3	01/13/2011	8'-10'	0.063 U	0.063 U	—	—	0.063 U	0.063 U	0.063 U	ND
T3B3	01/13/2011	13'-15'	0.062 U	0.062 U	—	—	0.062 U	0.062 U	0.062 U	ND
T3B4	01/13/2011	3'-5'	0.063 U	0.063 U	—	—	**0.088**	0.063 U	0.063 U	**0.04183**
T3B4	01/13/2011	13'-15'	0.18 U	0.18 U	—	—	0.18 U	0.18 U	0.18 U	ND
T3B4	01/13/2011	23'-25'	0.063 U	0.063 U	—	—	0.063 U	0.063 U	0.063 U	ND

NOTES:

Bold text indicates a detected result.

Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).

* Sample appears twice in table because it is located within overlapping Site areas.

J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.

R = result rejected due to quality control failures.

U = analyte not detected above the indicated reporting limit.

CAS = Chemical Abstracts Service Number; cPAH = carcinogenic polycyclic aromatic hydrocarbon; TEQ = toxicity equivalent quotient

Table B-7: Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)							
		CAS	Benzo(a)pyrene 50-32-8	Benzo(a)anthracene 56-55-3	Benzo(b)fluoranthene 205-99-2	Benzo(k)fluoranthene 207-08-9	Chrysene 218-01-9	Dibenz(a,h)anthracene 53-70-3	Indeno(1,2,3-cd)pyrene 193-39-5	Total cPAH TEQ TOT_PAH
Area 1										
* GP-08901	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
* GP-08902	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
* GP-08903	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
* GP-08904	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
* GP-08905	14'	09/13/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
MW-9	5'-20'	01/31/2008	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
MW-9		08/17/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
* MW-23	6'-15.75'	01/31/2008	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
* MW-23	6'-15.75'	02/26/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
* MW-23		08/16/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
* MW-24	6'-19.75'	01/31/2008	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	ND
* MW-24	6'-19.75'	02/26/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
* MW-24		08/25/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
* MW-24		08/25/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
* MW-24		02/09/2018	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
MW-25	6'-19.75'	01/31/2008	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
MW-25	6'-19.75'	02/26/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
MW-25		08/23/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
MW-25		02/09/2018	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
MW-30	5'-19.5'	01/31/2008	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
MW-30		08/18/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
MW-30		08/18/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
MW-48	5'-17'	02/26/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
MW-48	5'-17'	05/20/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
MW-48	5'-17'	08/26/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
MW-48	5'-17'	12/10/2009	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	ND
Area 2										
MW-7	10'-20'	02/01/2008	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
MW-7	10'-20'	02/25/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
MW-14	5'-20'	02/01/2008	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
MW-14	5'-20'	02/27/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
MW-14		08/25/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
MW-14		08/25/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
MW-14		02/12/2018	0.5 U	0.4 U	—	—	0.4 U	0.4 U	0.4 U	ND
MW-15	5'-20'	01/31/2008	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
MW-15		08/23/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
MW-32	5'-20'	02/01/2008	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
MW-32	5'-20'	02/27/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
MW-32		08/24/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
MW-32		08/24/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
MW-32		02/07/2018	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
MW-32		02/07/2018	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
MW-34	5'-15'	02/01/2008	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
MW-36		02/01/2008	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
MW-36		02/27/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
MW-37	10'-25'	02/25/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
MW-37	10'-25'	05/20/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
MW-37	10'-25'	08/27/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
MW-37	10'-25'	12/11/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND

Table B-7: Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)							
		CAS	Benzo(a)pyrene 50-32-8	Benzo(a)anthracene 56-55-3	Benzo(b)fluoranthene 205-99-2	Benzo(k)fluoranthene 207-08-9	Chrysene 218-01-9	Dibenz(a,h)anthracene 53-70-3	Indeno(1,2,3-cd)pyrene 193-39-5	Total cPAH TEQ TOT_PAH
MW-37		08/17/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
MW-37		08/17/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
MW-37		02/09/2018	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
Area 3										
MW-3	4.5'-19.75'	01/31/2008	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
MW-4	4.75'-20'	01/31/2008	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
MW-8	5'-20'	01/31/2008	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
MW-8	5'-20'	02/26/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
Area 4										
MW-10	5'-20'	02/01/2008	**0.12**	**0.052**	**0.17**	0.0098 U	**0.22**	**0.013**	**0.041**	**0.00015029**
MW-11	5'-20'	01/31/2008	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
MW-11	5'-20'	02/25/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
Area 5										
MW-40	10'-25'	02/27/2009	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	ND
MW-40	10'-25'	05/20/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
MW-40	10'-25'	08/26/2009	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
MW-40	10'-25'	12/18/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
MW-40		02/08/2018	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
MW-40		02/08/2018	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
MW-41	30'-40'	02/27/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
MW-41	30'-40'	05/20/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
MW-41	30'-40'	08/26/2009	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
MW-41	30'-40'	12/18/2009	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
MW-41		08/21/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
MW-41		08/21/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
MW-41		02/08/2018	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
MW-41		02/08/2018	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND

Table B-7: Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)							
			CAS	Benzo(a)pyrene 50-32-8	Benzo(a)anthracene 56-55-3	Benzo(b)fluoranthene 205-99-2	Benzo(k)fluoranthene 207-08-9	Chrysene 218-01-9	Dibenz(a,h)anthracene 53-70-3	Indeno(1,2,3-cd)pyrene 193-39-5	Total cPAH TEQ TOT_PAH
Area 6											
*	MW-6	10'-20'	01/30/2008	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
	MW-31	5'-19'	01/30/2008	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
	MW-31	5'-19'	02/26/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
	MW-31		08/16/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
	MW-31		08/16/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
	MW-31		02/06/2018	0.06 U	0.14 U	0.26 U	0.26 U	0.06 U	0.27 U	0.08 U	ND
	MW-31		02/06/2018	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
	MW-45	30'-40'	02/26/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
	MW-45	30'-40'	05/21/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
	MW-45	30'-40'	08/27/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
	MW-45	30'-40'	12/11/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
	MW-46	5'-20'	02/26/2009	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
	MW-46	5'-20'	05/21/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
	MW-46	5'-20'	08/27/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
	MW-46	5'-20'	12/11/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
	MW-46		08/24/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
	MW-46		08/24/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
	MW-46		08/24/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
	MW-46		08/24/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
	MW-46		02/06/2018	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
	MW-46		02/06/2018	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
Area 7											
	MW-38	10'-25'	02/24/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
	MW-38	10'-25'	05/20/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
	MW-38	10'-25'	08/25/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
	MW-38	10'-25'	12/10/2009	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	ND
*	MW-39	5'-20'	02/24/2009	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
*	MW-39	5'-20'	05/20/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
*	MW-39	5'-20'	08/26/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
*	MW-39	5'-20'	12/10/2009	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
*	MW-42	5'-20'	02/25/2009	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
*	MW-42	5'-20'	05/20/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
*	MW-42	5'-20'	08/26/2009	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	ND
*	MW-42	5'-20'	12/10/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
*	MW-43	30'-40'	02/25/2009	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
*	MW-43	30'-40'	05/20/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
*	MW-43	30'-40'	08/26/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
*	MW-43	30'-40'	12/11/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
*	MW-44	50'-60'	02/25/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
*	MW-44	50'-60'	05/20/2009	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	ND
*	MW-44	50'-60'	08/26/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
*	MW-44	50'-60'	12/18/2009	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
Area 8											
*	MW-6	10'-20'	01/30/2008	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
*	MW-39	5'-20'	02/24/2009	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
*	MW-39	5'-20'	05/20/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
*	MW-39	5'-20'	08/26/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
*	MW-39	5'-20'	12/10/2009	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND

Table B-7: Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)							
			CAS	Benzo(a)pyrene 50-32-8	Benzo(a)anthracene 56-55-3	Benzo(b)fluoranthene 205-99-2	Benzo(k)fluoranthene 207-08-9	Chrysene 218-01-9	Dibenz(a,h)anthracene 53-70-3	Indeno(1,2,3-cd)pyrene 193-39-5	Total cPAH TEQ TOT_PAH
*	MW-42	5'-20'	02/25/2009	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
*	MW-42	5'-20'	05/20/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
*	MW-42	5'-20'	08/26/2009	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	ND
*	MW-42	5'-20'	12/10/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
*	MW-43	30'-40'	02/25/2009	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
*	MW-43	30'-40'	05/20/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
*	MW-43	30'-40'	08/26/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
*	MW-43	30'-40'	12/11/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
*	MW-44	50'-60'	02/25/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
*	MW-44	50'-60'	05/20/2009	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	ND
*	MW-44	50'-60'	08/26/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
*	MW-44	50'-60'	12/18/2009	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
	MW-47	5'-20'	02/25/2009	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
	MW-47	5'-20'	05/21/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
	MW-47	5'-20'	08/27/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
	MW-47	5'-20'	12/11/2009	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
	MW-47		02/12/2018	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
Area 9											
*	GP-08901	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
*	GP-08902	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
*	GP-08903	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
*	GP-08904	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
*	GP-08905	14'	09/13/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
	GP-09101	15'	09/12/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
	GP-09102	14'	09/08/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
	GP-09103	14'	09/08/1994	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ND
	MW-5	10'-20'	01/30/2008	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	ND
	MW-5	10'-20'	02/24/2009	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
	MW-5	10'-20'	05/21/2009	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
	MW-5	10'-20'	08/27/2009	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	ND
	MW-5	10'-20'	12/11/2009	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	0.0099 U	ND
*	MW-23	6'-15.75'	01/31/2008	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND
*	MW-23	6'-15.75'	02/26/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
*	MW-23		08/16/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
*	MW-24	6'-19.75'	01/31/2008	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	ND
*	MW-24	6'-19.75'	02/26/2009	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	ND
*	MW-24		08/25/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
*	MW-24		08/25/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
*	MW-24		02/09/2018	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
	MW-50		08/16/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
	MW-50		08/16/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
	MW-51		08/25/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
	MW-51		08/25/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
	MW-51		02/14/2018	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
	MW-52		08/18/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
	MW-52		08/18/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
	MW-52		08/18/2017	0.05 U	0.04 U	0.04 U	0.04 U	0.04 U	0.07 U	0.06 U	ND
	MW-52		08/18/2017	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
	MW-52		02/06/2018	0.06 U	0.05 U	0.09 U	0.09 U	0.06 U	0.09 U	0.08 U	ND
	PL2-JF01AR	23.2'-27'	08/01/2007	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
	PL2-JF01AR	23'-27'	01/30/2008	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	ND

Table B-7: Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)							
		CAS	Benzo(a)pyrene 50-32-8	Benzo(a)anthracene 56-55-3	Benzo(b)fluoranthene 205-99-2	Benzo(k)fluoranthene 207-08-9	Chrysene 218-01-9	Dibenz(a,h)anthracene 53-70-3	Indeno(1,2,3-cd)pyrene 193-39-5	Total cPAH TEQ TOT_PAH
PL2-JF01AR	23'-27'	02/04/2008	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	ND
PL2-JF01B	40'-50'	08/01/2007	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
PL2-JF01B	40'-50'	01/30/2008	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	ND
PL2-JF01C	74'-78.5'	08/01/2007	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
PL2-JF01C	74'-78'	01/30/2008	0.0094 U	**0.012**	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	**0.00000783**
PL2-JF02A	5.5'-23'	08/01/2007	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
PL2-JF02A	8'-22.75'	01/30/2008	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	ND
PL2-JF02A	8'-22.75'	02/04/2008	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	ND
PL2-JF04A	8'-18'	01/30/2008	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	0.0095 U	ND

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number; cPAH = carcinogenic polycyclic aromatic hydrocarbon; TEQ = toxicity equivalent quotient

Table B-8: Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)											
		CAS	1-Methylnaphthalene 90-12-0	2-Methylnaphthalene 91-57-6	Acenaphthene 83-32-9	Acenaphthylene 208-96-8	Anthracene 120-12-7	Benzo(g,h,i)perylene 191-24-2	Dibenzofuran 132-64-9	Fluoranthene 206-44-0	Fluorene 86-73-7	Naphthalene 91-20-3	Phenanthrene 85-01-8	Pyrene 129-00-0
Area 1														
MW-48	02/12/2009	6'	—	—	—	—	—	—	—	—	—	0.00084 U	—	—
MW-48	02/12/2009	10.5'	—	—	—	—	—	—	—	—	—	0.0011 U	—	—
MW-48	02/12/2009	15.5'	—	—	—	—	—	—	—	—	—	0.001 U	—	—
* SB-08918	09/13/1994	2'	—	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	**0.093**	0.072 U	0.072 U	**0.16**	**0.081**
* SB-08918	09/13/1994	5'	—	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
* SB-08918	09/13/1994	12.5'	—	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U
* SB-08918	09/13/1994	12.5'	—	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U
Area 2														
MW-37	02/09/2009	11'	—	—	—	—	—	—	—	—	—	0.00074 U	—	—
MW-37	02/09/2009	15.5'	—	—	—	—	—	—	—	—	—	0.00082 U	—	—
Area 5														
MW-41	07/19/2008	5'	—	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.034 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U
MW-41	07/19/2008	10'	—	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.035 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
MW-41	07/19/2008	20'	—	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.04 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U	0.0079 U
MW-41	07/19/2008	30'	—	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.043 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
Area 6														
MW-46	02/11/2009	6.5'	—	—	—	—	—	—	—	—	—	0.001 U	—	—
MW-46	02/11/2009	10.5'	—	—	—	—	—	—	—	—	—	**1.5**	—	—
MW-46	02/11/2009	16.5'	—	—	—	—	—	—	—	—	—	**0.0024**	—	—
Area 8														
JF-SB3BA1-6	09/06/2013	2.5'e	—	0.003 U	0.003 U	0.003 U	0.003 U	**0.0087**	0.006 U	**0.024**	0.003 U	0.326 U	**0.0063**	**0.025**
JF-SB3NSW-6	09/06/2013	1'	—	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.006 U	**0.0044**	0.003 U	**0.0044**	**0.0052**	**0.004**
JF-SB4BA2-9	09/09/2013	6'	—	0.03 U	0.03 U	0.03 U	0.03 U	**0.052**	0.06 U	**0.18**	0.03 U	3.26 U	**0.044**	**0.19**
JF-SB4NSW-9	09/09/2013	4'	—	**0.0044**	**0.0044 J**	**0.0032 J**	**0.0099 J**	**0.0048**	0.006 U	**0.17 J**	**0.0044 J**	**0.0083**	**0.046 J**	**0.2 J**
PEB-4	08/25/2014	0'-1'	—	**0.051**	**0.028**	**0.015 J**	**0.058**	**0.11**	0.031 U	**0.45**	**0.026**	**0.06**	**0.36**	**0.4**
PEB-5	08/25/2014	0'-1'	—	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	**0.011 J**	0.019 U	0.019 U	**0.011 J**	**0.01 J**
PEB-6	08/25/2014	0'-1'	—	**0.03**	0.02 U	0.02 U	**0.013 J**	**0.059**	**0.011 J**	**0.074**	0.02 U	**0.028**	**0.081**	**0.76**
Area 9														
DM-B-1	03/01/1990	11'	—	—	—	—	—	—	—	—	—	2.5 U	—	—
DM-SB-1	03/01/1990	0'-3.5'	—	—	—	—	—	—	—	—	—	2.5 U	—	—
DM-SB-2	03/01/1990	0'-3.5'	—	—	—	—	—	—	—	—	—	2.5 U	—	—
JF-DGP2	03/29/2012	0'-10'	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
JF-DGP2	03/29/2012	2'-2'	—	—	—	—	—	—	—	—	—	0.0053 U	—	—
JF-DGP2	03/29/2012	10'-20'	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.011 J**	0.02 U	**0.016 J**	0.02 U	0.02 U	**0.012 J**	**0.025**
JF-DGP2	03/29/2012	16'	—	—	—	—	—	—	—	—	—	0.0062 U	—	—
JF-DGP2	03/29/2012	20'-30'	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
JF-DGP2	03/29/2012	26'-26'	—	—	—	—	—	—	—	—	—	0.0059 U	—	—
JF-DGP3	03/28/2012	15'	—	—	—	—	—	—	—	—	—	0.0059 U	—	—
JF-DGP4	03/28/2012	17'	—	—	—	—	—	—	—	—	—	0.0052 U	—	—
JF-DGP4	03/28/2012	21'	—	—	—	—	—	—	—	—	—	0.0049 U	—	—
JF-DGP4	03/28/2012	26'-26'	—	—	—	—	—	—	—	—	—	0.0061 U	—	—
JF-DGP4	03/28/2012	31'	—	—	—	—	—	—	—	—	—	0.0059 U	—	—
JF-DGP4	03/28/2012	33'	—	—	—	—	—	—	—	—	—	0.0061 U	—	—
JF-DGP5	03/29/2012	0'-10'	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	**0.095 J**	0.11 U	0.11 U	**0.072 J**	**0.084 J**
JF-DGP5	03/29/2012	2'-2'	—	—	—	—	—	—	—	—	—	0.0053 U	—	—
JF-DGP5	03/29/2012	10'-20'	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U

Table B-8: Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)											
		CAS	1-Methylnaphthalene 90-12-0	2-Methylnaphthalene 91-57-6	Acenaphthene 83-32-9	Acenaphthylene 208-96-8	Anthracene 120-12-7	Benzo(g,h,i)perylene 191-24-2	Dibenzofuran 132-64-9	Fluoranthene 206-44-0	Fluorene 86-73-7	Naphthalene 91-20-3	Phenanthrene 85-01-8	Pyrene 129-00-0
JF-DGP5	03/29/2012	16'	—	—	—	—	—	—	—	—	—	0.0047 U	—	—
JF-DGP5	03/29/2012	20'-30'	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	**0.03 J**
JF-DGP5	03/29/2012	26'-26'	—	—	—	—	—	—	—	—	—	0.006 U	—	—
JF-DGP6	03/30/2012	18.5'	—	—	—	—	—	—	—	—	—	0.0079 U	—	—
JF-DGP6	03/30/2012	21'	—	—	—	—	—	—	—	—	—	0.0069 U	—	—
JF-DGP6	03/30/2012	26'-26'	—	—	—	—	—	—	—	—	—	0.38 U	—	—
PEB-1	08/25/2014	0'-1'	—	**0.02 J**	0.057 U	**0.14**	**0.11**	**0.21**	0.057 U	**0.93**	0.057 U	0.057 U	**0.15**	**0.9**
PEB-2	08/25/2014	0'-1'	—	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	**0.058**	0.058 U	0.058 U	**0.041 J**	0.058 U
PEB-3	08/25/2014	0'-1'	—	**0.0094 J**	0.019 U	0.019 U	**0.018 J**	0.019 U	**0.011 J**	**0.048**	0.019 U	**0.013 J**	**0.092**	**0.031**
* SB-08918	09/13/1994	2'	—	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	**0.093**	0.072 U	0.072 U	**0.16**	**0.081**
* SB-08918	09/13/1994	5'	—	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
* SB-08918	09/13/1994	12.5'	—	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U
* SB-08918	09/13/1994	12.5'	—	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U
T2B1	01/13/2011	3'-5'	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
T2B1	01/13/2011	8'-10'	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
T2B1	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
T2B2	01/13/2011	3'-5'	0.061 U	0.061 U	0.061 U	0.061 U	**0.12**	**0.086**	0.061 U	**0.61**	**0.073**	0.061 U	**0.63**	**0.6**
T2B2	01/13/2011	8'-10'	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	**0.49**	0.063 U	**0.15**	0.063 U	0.063 U	**0.084**	**0.16**
T2B2	01/13/2011	13'-15'	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
T2B3	01/13/2011	2'-4'	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
T2B3	01/13/2011	8'-10'	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	**0.061**	0.06 U	0.06 U	0.06 U	**0.072**
T2B3	01/13/2011	13'-15'	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	**0.073**	0.065 U	0.065 U	0.065 U	**0.082**
T2B4	01/13/2011	3'-5'	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
T2B4	01/13/2011	18'-20'	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	**0.13**	0.12 U	0.12 U
T2B4	01/13/2011	23'-25'	**0.074**	**0.15**	**0.094**	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	**0.78**	**0.13**	**0.074**
T3B1	01/13/2011	3'-5'	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
T3B1	01/13/2011	8'-10'	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
T3B1	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	**0.067**	0.062 U
T3B2	01/13/2011	3'-5'	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
T3B2	01/13/2011	8'-10'	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
T3B2	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
T3B2	01/13/2011	13'-15'	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
T3B3	01/13/2011	3'-5'	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
T3B3	01/13/2011	8'-10'	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	**0.091**	0.063 U
T3B3	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
T3B4	01/13/2011	3'-5'	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
T3B4	01/13/2011	13'-15'	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
T3B4	01/13/2011	23'-25'	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-9: Other Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)												
			1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
		CAS	90-12-0	91-57-6	83-32-9	208-96-8	120-12-7	191-24-2	205-82-3	132-64-9	206-44-0	86-73-7	91-20-3	85-01-8	129-00-0
Area 1															
* GP-08901	14'	09/14/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
* GP-08902	14'	09/14/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
* GP-08903	14'	09/14/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
* GP-08904	14'	09/14/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
* GP-08905	14'	09/13/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
MW-9	5'-20'	01/31/2008	—	0.098 U	0.098 U	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
MW-9		08/17/2017	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
* MW-23	6'-15.75'	12/29/2004	—	—	—	—	—	—	—	—	—	—	1 U	—	—
* MW-23	6'-15.75'	01/31/2008	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
* MW-23	6'-15.75'	02/26/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
* MW-23	6'-15.75'	05/21/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
* MW-23	6'-15.75'	12/11/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
* MW-23		08/16/2017	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
* MW-24	6'-19.75'	01/31/2008	—	0.096 U	0.096 U	0.096 U	0.096 U	0.0096 U	—	0.96 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U
* MW-24	6'-19.75'	02/26/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
* MW-24	6'-19.75'	05/20/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
* MW-24	6'-19.75'	12/10/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
* MW-24		08/25/2017	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U	0.04 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
* MW-24		08/25/2017	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	—	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
* MW-24		02/09/2018	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U	0.04 U	—	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
MW-25	6'-19.75'	12/29/2004	—	—	—	—	—	—	—	—	—	—	**0.0449 J**	—	—
MW-25	6'-19.75'	01/31/2008	—	0.097 U	**0.21**	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
MW-25	6'-19.75'	02/26/2009	—	0.1 U	**0.22**	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-25	6'-19.75'	05/20/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
MW-25	6'-19.75'	12/11/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
MW-25		08/23/2017	0.02 U	0.03 U	**0.25**	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
MW-25		02/09/2018	0.02 U	0.03 U	**0.12**	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
MW-30	5'-19.5'	01/31/2008	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
MW-30		08/18/2017	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	—	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
MW-30		08/18/2017	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U	0.04 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
MW-48		02/12/2009	—	—	—	—	—	—	—	0.2 U	—	—	1 U	—	—
MW-48	5'-17'	02/26/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
MW-48	5'-17'	05/20/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
MW-48	5'-17'	08/26/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
MW-48	5'-17'	12/10/2009	—	0.096 U	0.096 U	0.096 U	0.096 U	0.0096 U	—	0.96 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U
* MW-49	23'-27'	02/13/2009	—	—	—	—	—	—	—	0.2 U	—	—	1 U	—	—
* MW-49	5'-17'	02/26/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
* MW-49	5'-17'	05/21/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
* MW-49	5'-17'	12/11/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
Area 2															
MW-7	10'-20'	02/01/2008	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U
MW-7	10'-20'	02/25/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-14	5'-20'	02/01/2008	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
MW-14	5'-20'	02/27/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-14		08/25/2017	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	—	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
MW-14		08/25/2017	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U	0.04 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
MW-14		02/12/2018	0.3 U	0.2 U	0.3 U	0.3 U	0.4 U	0.5 U	—	0.3 U	0.4 U	0.3 U	0.2 U	0.2 U	0.3 U
MW-15	5'-20'	01/31/2008	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U

Table B-9: Other Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)												
			1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
		CAS	90-12-0	91-57-6	83-32-9	208-96-8	120-12-7	191-24-2	205-82-3	132-64-9	206-44-0	86-73-7	91-20-3	85-01-8	129-00-0
MW-15		08/23/2017	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
MW-32	5'-20'	02/01/2008	—	**0.39**	0.098 U	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	**0.32**	0.098 U	0.098 U
MW-32	5'-20'	02/27/2009	—	**0.31**	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	**0.12**	0.1 U	0.1 U
MW-32		08/24/2017	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
MW-32		08/24/2017	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U	0.04 U	—	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
MW-32		02/07/2018	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U	0.04 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
MW-32		02/07/2018	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	—	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
MW-34	5'-15'	02/01/2008	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
MW-36		02/01/2008	—	0.098 U	0.098 U	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
MW-36		02/27/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
MW-37	10'-25'	02/25/2009	—	0.1 U	**4.5**	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	**0.12**	0.1 U
MW-37	10'-25'	05/20/2009	—	0.095 U	**5.7**	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	**0.2**	0.095 U
MW-37	10'-25'	08/27/2009	—	0.097 U	**6.3**	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	**0.2**	0.097 U
MW-37	10'-25'	12/11/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
MW-37		08/17/2017	0.03 U	0.03 U	**2.5**	0.02 U	0.03 U	0.04 U	—	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
MW-37		08/17/2017	0.02 U	0.03 U	**1.69**	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
MW-37		02/09/2018	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
Area 3															
MW-3	4.5'-19.75'	01/31/2008	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U
MW-4	4.75'-20'	01/31/2008	—	**0.26**	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	**0.3**	0.099 U	0.099 U
MW-8	5'-20'	01/31/2008	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U
MW-8	5'-20'	02/26/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Area 4															
MW-10	5'-20'	02/01/2008	—	0.098 U	0.098 U	0.098 U	0.098 U	**0.078**	—	0.98 U	**0.24**	0.098 U	0.098 U	**0.19**	**0.43**
MW-11	5'-20'	01/31/2008	—	0.098 U	0.098 U	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
MW-11	5'-20'	02/25/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Area 5															
MW-40	10'-25'	02/27/2009	—	0.094 U	**0.11**	0.094 U	0.094 U	0.0094 U	—	0.94 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U
MW-40	10'-25'	05/20/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
MW-40	10'-25'	08/26/2009	—	0.098 U	**0.17**	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
MW-40	10'-25'	12/18/2009	—	0.097 U	**0.11**	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
MW-40		02/08/2018	0.02 U	0.03 U	**0.82**	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
MW-40		02/08/2018	0.03 U	0.03 U	**0.9**	0.02 U	0.03 U	0.04 U	—	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
MW-41	30'-40'	02/27/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-41	30'-40'	05/20/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
MW-41	30'-40'	08/26/2009	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U
MW-41	30'-40'	12/18/2009	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U
MW-41		08/21/2017	0.03 U	0.03 U	**1.1**	0.02 U	0.03 U	0.04 U	0.03 U	0.02 U	0.03 U	**0.2 J**	0.03 U	0.02 U	0.03 U
MW-41		08/21/2017	0.02 U	0.03 U	**0.29**	0.02 U	0.02 U	0.07 U	—	0.02 U	0.02 U	**0.06 J**	0.02 U	0.02 U	0.03 U
MW-41		02/08/2018	0.02 U	0.03 U	**5.07**	0.02 U	0.02 U	0.07 U	—	0.02 U	0.02 U	**0.45**	0.02 U	0.02 U	0.03 U
MW-41		02/08/2018	0.03 U	0.03 U	**4.8**	0.02 U	0.03 U	0.04 U	0.03 U	0.02 U	0.03 U	**0.4**	0.03 U	0.02 U	0.03 U
Area 6															
* MW-6	10'-20'	01/30/2008	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-31	5'-19'	12/29/2004	—	—	—	—	—	—	—	—	—	—	**0.0475 J**	—	—
MW-31	5'-19'	01/30/2008	—	0.098 U	**5.7**	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	**2.4**	0.098 U
MW-31	5'-19'	02/26/2009	—	0.1 U	**2.9**	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	**1.2**	0.1 U
MW-31		08/16/2017	0.02 U	0.03 U	**3.33 J**	0.02 U	0.02 U	0.07 U	—	0.02 U	0.02 U	**0.29**	0.02 U	**1.3**	0.03 U
MW-31		08/16/2017	**0.1 J**	0.03 U	**10.3**	0.02 U	**0.08 J**	0.04 U	0.03 U	0.02 U	**0.06 J**	**0.8**	0.03 U	**3.3**	0.03 U

Table B-9: Other Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)												
			1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
		CAS	90-12-0	91-57-6	83-32-9	208-96-8	120-12-7	191-24-2	205-82-3	132-64-9	206-44-0	86-73-7	91-20-3	85-01-8	129-00-0
MW-31		02/06/2018	**0.15**	**0.2**	**11.7**	0.07 U	**0.18**	0.07 U	0.09 U	0.07 U	0.05 U	**0.74**	**0.45**	**4.14**	0.03 U
MW-31		02/06/2018	0.03 U	0.03 U	**10.2**	0.02 U	**0.1 J**	0.04 U	0.03 U	0.02 U	**0.09 J**	**0.6**	**0.1 J**	**3.4**	**0.04 J**
MW-45	30'-40'	02/26/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-45	30'-40'	05/21/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
MW-45	30'-40'	08/27/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-45	30'-40'	12/11/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
MW-46	5'-20'	02/26/2009	—	**7.6**	**12**	**0.14**	**0.31**	0.0099 U	—	0.99 U	**0.24**	**4.3**	**28**	**3.5**	0.099 U
MW-46	5'-20'	05/21/2009	—	**4.9**	**8.2**	0.095 U	**0.3**	0.0095 U	—	0.95 U	**0.37**	**3.3**	**75**	**4**	**0.18**
MW-46	5'-20'	08/27/2009	—	**4**	**7**	0.097 U	**0.18**	0.0097 U	—	0.97 U	**0.21**	**2.4**	**15**	**2.7**	**0.11**
MW-46	5'-20'	12/11/2009	—	**11**	**15**	**0.19**	**0.37**	0.0095 U	—	0.95 U	**0.42**	**6**	**97**	**6.7**	**0.25**
MW-46		08/24/2017	**0.5**	**1**	**3.6**	0.02 U	**0.05 J**	0.04 U	0.03 U	0.02 U	**0.1 J**	**0.3 J**	**1.3**	**0.6**	**0.06 J**
MW-46		08/24/2017	**0.46 J**	**0.65 J**	**1.86**	0.02 U	0.02 U	0.07 U	—	0.02 U	**0.08 J**	**0.17**	**0.77 J**	**0.36**	0.03 U
MW-46		08/24/2017	**0.33 J**	**0.43 J**	**1.83**	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	**0.06 J**	**0.13**	**0.43 J**	**0.3**	0.03 U
MW-46		08/24/2017	**0.5**	**0.8**	**4**	0.02 U	**0.06 J**	0.04 U	—	0.02 U	**0.09 J**	**0.2 J**	**1**	**0.6**	**0.06 J**
MW-46		02/06/2018	**0.6**	**0.9**	**3.3**	0.02 U	**0.09 J**	0.04 U	0.03 U	0.02 U	**0.1 J**	**0.5**	**1.3**	**0.9**	**0.06 J**
MW-46		02/06/2018	**0.76**	**1.05**	**3.59**	0.02 U	**0.08 J**	0.07 U	—	**0.09 J**	**0.13**	**0.6**	**1.81**	**1.11**	**0.07 J**
Area 7															
MW-38	10'-25'	02/24/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-38	10'-25'	05/20/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
MW-38	10'-25'	08/25/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-38	10'-25'	12/10/2009	—	0.096 U	0.096 U	0.096 U	0.096 U	0.0096 U	—	0.96 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U
* MW-39	5'-20'	02/24/2009	—	0.098 U	0.098 U	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
* MW-39	5'-20'	05/20/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
* MW-39	5'-20'	08/26/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	**0.0096**	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
* MW-39	5'-20'	12/10/2009	—	0.098 U	0.098 U	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
* MW-42	5'-20'	02/25/2009	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U
* MW-42	5'-20'	05/20/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
* MW-42	5'-20'	08/26/2009	—	0.096 U	0.096 U	0.096 U	0.096 U	0.0096 U	—	0.96 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U
* MW-42	5'-20'	12/10/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
* MW-43	30'-40'	02/25/2009	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U
* MW-43	30'-40'	05/20/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
* MW-43	30'-40'	08/26/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
* MW-43	30'-40'	12/11/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
* MW-44	50'-60'	02/25/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
* MW-44	50'-60'	05/20/2009	—	0.094 U	0.094 U	0.094 U	0.094 U	0.0094 U	—	0.94 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U
* MW-44	50'-60'	08/26/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
* MW-44	50'-60'	12/18/2009	—	0.098 U	0.098 U	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
Area 8															
* MW-6	10'-20'	01/30/2008	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
* MW-39	5'-20'	02/24/2009	—	0.098 U	0.098 U	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
* MW-39	5'-20'	05/20/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
* MW-39	5'-20'	08/26/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	**0.0096**	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
* MW-39	5'-20'	12/10/2009	—	0.098 U	0.098 U	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
* MW-42	5'-20'	02/25/2009	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U
* MW-42	5'-20'	05/20/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
* MW-42	5'-20'	08/26/2009	—	0.096 U	0.096 U	0.096 U	0.096 U	0.0096 U	—	0.96 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U
* MW-42	5'-20'	12/10/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
* MW-43	30'-40'	02/25/2009	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U
* MW-43	30'-40'	05/20/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U

Table B-9: Other Polycyclic Aromatic Hydrocarbons in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)													
				1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
			CAS	90-12-0	91-57-6	83-32-9	208-96-8	120-12-7	191-24-2	205-82-3	132-64-9	206-44-0	86-73-7	91-20-3	85-01-8	129-00-0
*	MW-43	30'-40'	08/26/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
*	MW-43	30'-40'	12/11/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
*	MW-44	50'-60'	02/25/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
*	MW-44	50'-60'	05/20/2009	—	0.094 U	0.094 U	0.094 U	0.094 U	0.0094 U	—	0.94 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U
*	MW-44	50'-60'	08/26/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
*	MW-44	50'-60'	12/18/2009	—	0.098 U	0.098 U	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
	MW-47	5'-20'	02/25/2009	—	0.099 U	**0.23**	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U
	MW-47	5'-20'	05/21/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
	MW-47	5'-20'	08/27/2009	—	0.095 U	**0.28**	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
	MW-47	5'-20'	12/11/2009	—	0.097 U	0.097 U	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
	MW-47		02/12/2018	0.02 U	0.03 U	**0.32**	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
Area 9																
*	GP-08901	14'	09/14/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
*	GP-08902	14'	09/14/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
*	GP-08903	14'	09/14/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
*	GP-08904	14'	09/14/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
*	GP-08905	14'	09/13/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
	GP-09101	15'	09/12/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
	GP-09102	14'	09/08/1994	—	1 U	1 U	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
	GP-09103	14'	09/08/1994	—	1 U	**1.5**	1 U	1 U	1 U	—	1 U	1 U	1 U	1 U	1 U	1 U
	MW-5	10'-20'	01/30/2008	—	0.096 U	0.096 U	0.096 U	0.096 U	0.0096 U	—	0.96 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U
	MW-5	10'-20'	02/24/2009	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	**0.15**	0.099 U	0.099 U
	MW-5	10'-20'	05/21/2009	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
	MW-5	10'-20'	08/27/2009	—	0.098 U	0.098 U	0.098 U	0.098 U	0.0098 U	—	0.98 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
	MW-5	10'-20'	12/11/2009	—	0.099 U	0.099 U	0.099 U	0.099 U	0.0099 U	—	0.99 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U
*	MW-23	6'-15.75'	12/29/2004	—	—	—	—	—	—	—	—	—	—	1 U	—	—
*	MW-23	6'-15.75'	01/31/2008	—	0.095 U	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
*	MW-23	6'-15.75'	02/26/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
*	MW-23	6'-15.75'	05/21/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
*	MW-23	6'-15.75'	12/11/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
*	MW-23		08/16/2017	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
*	MW-24	6'-19.75'	01/31/2008	—	0.096 U	0.096 U	0.096 U	0.096 U	0.0096 U	—	0.96 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U
*	MW-24	6'-19.75'	02/26/2009	—	0.1 U	0.1 U	0.1 U	0.1 U	0.01 U	—	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
*	MW-24	6'-19.75'	05/20/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
*	MW-24	6'-19.75'	12/10/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
*	MW-24		08/25/2017	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U	0.04 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
*	MW-24		08/25/2017	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	—	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
*	MW-24		02/09/2018	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U	0.04 U	—	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
*	MW-49	23'-27'	02/13/2009	—	—	—	—	—	—	—	0.2 U	—	—	1 U	—	—
*	MW-49	5'-17'	02/26/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
*	MW-49	5'-17'	05/21/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
*	MW-49	5'-17'	12/11/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
	MW-50	23'-27'	05/21/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
	MW-50	23'-27'	12/11/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
	MW-50		08/16/2017	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U	0.04 U	—	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
	MW-50		08/16/2017	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
	MW-51	23'-27'	05/21/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
	MW-51	23'-27'	12/11/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
	MW-51		08/25/2017	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U	0.04 U	—	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
	MW-51		08/25/2017	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U

Table B-9: Other Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)												
			1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
		CAS	90-12-0	91-57-6	83-32-9	208-96-8	120-12-7	191-24-2	205-82-3	132-64-9	206-44-0	86-73-7	91-20-3	85-01-8	129-00-0
MW-51		02/14/2018	0.03 U	0.03 U	0.03 U	0.02 U	0.03 U	0.04 U	—	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
MW-52	23'-27'	05/21/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
MW-52	23'-27'	12/11/2009	—	—	—	—	—	—	—	—	—	—	1 U	—	—
MW-52		08/18/2017	0.02 U	0.03 U	**0.13**	0.02 U	0.02 U	0.07 U	—	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
MW-52		08/18/2017	0.03 U	0.03 U	**0.2 J**	0.02 U	0.03 U	0.04 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
MW-52		08/18/2017	0.03 U	0.03 U	**0.2 J**	0.02 U	0.03 U	0.04 U	—	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 U
MW-52		08/18/2017	0.02 U	0.03 U	**0.13**	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U
MW-52		02/06/2018	0.02 U	**0.07 J**	**0.23**	0.02 U	0.02 U	0.07 U	0.03 U	0.02 U	0.02 U	0.02 U	**1.07**	0.02 U	0.03 U
PL2-JF01AR	23.2'-27'	08/01/2007	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
PL2-JF01AR	23'-27'	01/30/2008	—	0.096 U	0.096 U	0.096 U	0.096 U	0.0096 U	—	0.96 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U
PL2-JF01AR	23'-27'	02/04/2008	—	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
PL2-JF01B	40'-50'	08/01/2007	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
PL2-JF01B	40'-50'	01/30/2008	—	0.096 U	0.096 U	0.096 U	0.096 U	0.0096 U	—	0.96 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U
PL2-JF01C	74'-78.5'	08/01/2007	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
PL2-JF01C	74'-78'	01/30/2008	—	0.094 U	0.094 U	0.094 U	0.094 U	0.0094 U	—	0.94 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U
PL2-JF02A	5.5'-23'	08/01/2007	0.1 U	0.1 U	**0.8**	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
PL2-JF02A	8'-22.75'	01/30/2008	—	0.097 U	**0.33**	0.097 U	0.097 U	0.0097 U	—	0.97 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
PL2-JF02A	8'-22.75'	02/04/2008	—	0.1 U	**0.79**	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
PL2-JF04A	8'-18'	01/30/2008	—	**0.2**	0.095 U	0.095 U	0.095 U	0.0095 U	—	0.95 U	0.095 U	0.095 U	**0.49**	0.095 U	0.095 U
T2B2	0-15'	01/13/2011	—	—	—	—	—	—	—	—	—	—	0.5 U	—	—
T2B3	0-15'	01/13/2011	—	—	—	—	—	—	—	—	—	—	0.5 U	—	—
T2B3	0-15'	01/13/2011	—	—	—	—	—	—	—	—	—	—	0.5 U	—	—
T2B4	0-15'	01/13/2011	—	—	—	—	—	—	—	—	—	—	0.5 U	—	—
T3B2	0-15'	01/14/2011	—	—	—	—	—	—	—	—	—	—	0.5 U	—	—
T3B3	0-15'	01/13/2011	—	—	—	—	—	—	—	—	—	—	0.5 U	—	—
T3B4	0-24'	01/13/2011	—	—	—	—	—	—	—	—	—	—	0.5 U	—	—

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-10A: Semivolatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Phenols (milligrams per kilogram)								
		CAS	2,4,5-Trichlorophenol 95-95-4	2,4,6-Trichlorophenol 88-06-2	2,4-Dichlorophenol 120-83-2	2,4-Dimethylphenol 105-67-9	2,4-Dinitrophenol 51-28-5	2-Chlorophenol 95-57-8	2-Methylphenol (o-Cresol) 95-48-7	2-Nitrophenol 88-75-5	4,6-Dinitro-2-methylphenol 534-52-1
Area 1											
* SB-08918	09/13/1994	2'	—	—	—	0.072 U	—	—	0.072 U	—	—
* SB-08918	09/13/1994	5'	—	—	—	0.16 U	—	—	0.08 U	—	—
* SB-08918	09/13/1994	12.5'	—	—	—	0.18 U	—	—	0.089 U	—	—
* SB-08918	09/13/1994	12.5'	—	—	—	0.17 U	—	—	0.087 U	—	—
Area 5											
MW-41	07/19/2008	5'	—	—	—	0.034 U	—	—	0.034 U	—	—
MW-41	07/19/2008	10'	—	—	—	0.035 U	—	—	0.035 U	—	—
MW-41	07/19/2008	20'	—	—	—	0.04 U	—	—	0.04 U	—	—
MW-41	07/19/2008	30'	—	—	—	0.043 U	—	—	0.043 U	—	—
Area 8											
PEB-4	08/25/2014	0'-1'	—	—	—	0.024 U	—	—	0.0048 U	—	—
PEB-5	08/25/2014	0'-1'	—	—	—	0.024 U	—	—	0.0047 U	—	—
Area 9											
JF-DGP2	03/29/2012	0'-10'	0.53 U	0.53 U	1.1 U	0.21 U	4.5 U	0.11 U	0.11 U	0.53 U	1.1 U
JF-DGP2	03/29/2012	10'-20'	0.098 U	0.098 U	0.2 U	**0.035 J**	0.84 U	0.02 U	0.02 U	0.098 U	0.2 U
JF-DGP2	03/29/2012	20'-30'	0.094 U	0.094 U	0.19 U	0.037 U	0.8 U	0.019 U	0.019 U	0.094 U	0.19 U
JF-DGP5	03/29/2012	0'-10'	0.56 U	0.56 U	1.1 U	0.22 U	4.7 U	0.11 U	0.11 U	0.56 U	1.1 U
JF-DGP5	03/29/2012	10'-20'	0.54 U	0.54 U	1.1 U	0.22 U	4.6 U	0.11 U	0.11 U	0.54 U	1.1 U
JF-DGP5	03/29/2012	20'-30'	0.27 U	0.27 U	0.55 U	0.11 U	2.3 U	0.055 U	0.055 U	0.27 U	0.55 U
PEB-1	08/25/2014	0'-1'	—	—	—	0.0702 U	—	—	0.014 U	—	—
PEB-2	08/25/2014	0'-1'	—	—	—	0.073 U	—	—	0.015 U	—	—
* SB-08918	09/13/1994	2'	—	—	—	0.072 U	—	—	0.072 U	—	—
* SB-08918	09/13/1994	5'	—	—	—	0.16 U	—	—	0.08 U	—	—
* SB-08918	09/13/1994	12.5'	—	—	—	0.18 U	—	—	0.089 U	—	—
* SB-08918	09/13/1994	12.5'	—	—	—	0.17 U	—	—	0.087 U	—	—
T2B1	01/13/2011	3'-5'	0.33 U	0.33 U	0.33 U	0.066 U	0.66 U	0.066 U	0.066 U	0.066 U	0.66 U
T2B1	01/13/2011	8'-10'	0.31 U	0.31 U	0.31 U	0.062 U	0.62 U	0.062 U	0.062 U	0.062 U	0.62 U
T2B1	01/13/2011	13'-15'	0.31 U	0.31 U	0.31 U	0.062 U	0.62 U	0.062 U	0.062 U	0.062 U	0.62 U
T2B2	01/13/2011	3'-5'	0.3 U	0.3 U	0.3 U	0.061 U	0.61 U	0.061 U	0.061 U	0.061 U	0.61 U
T2B2	01/13/2011	8'-10'	0.31 U	0.31 U	0.31 U	0.063 U	0.63 U	0.063 U	0.063 U	0.063 U	0.63 U
T2B2	01/13/2011	13'-15'	0.33 U	0.33 U	0.33 U	0.065 U	0.65 U	0.065 U	0.065 U	0.065 U	0.65 U
T2B3	01/13/2011	2'-4'	0.32 U	0.32 U	0.32 U	0.064 U	0.64 U	0.064 U	0.064 U	0.064 U	0.64 U
T2B3	01/13/2011	8'-10'	0.3 U	0.3 U	0.3 U	0.06 U	0.6 U	0.06 U	0.06 U	0.06 U	0.6 U
T2B3	01/13/2011	13'-15'	0.32 U	0.32 U	0.32 U	0.065 U	0.65 U	0.065 U	0.065 U	0.065 U	0.65 U
T2B4	01/13/2011	3'-5'	0.31 U	0.31 U	0.31 U	0.063 U	0.63 U	0.063 U	0.063 U	0.063 U	0.63 U
T2B4	01/13/2011	18'-20'	0.61 U	0.61 U	0.61 U	0.12 U	1.2 U	0.12 U	0.12 U	0.12 U	1.2 U
T2B4	01/13/2011	23'-25'	0.31 U	0.31 U	0.31 U	0.062 U	0.62 U	0.062 U	0.062 U	0.062 U	0.62 U

Table B-10A: Semivolatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Phenols (milligrams per kilogram)								
			2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2-Chlorophenol	2-Methylphenol (o-Cresol)	2-Nitrophenol	4,6-Dinitro-2-methylphenol
		CAS	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	95-57-8	95-48-7	88-75-5	534-52-1
T3B1	01/13/2011	3'-5'	0.32 U	0.32 U	0.32 U	0.064 U	0.64 U	0.064 U	0.064 U	0.064 U	0.64 U
T3B1	01/13/2011	8'-10'	0.3 U	0.3 U	0.3 U	0.06 U	0.6 U	0.06 U	0.06 U	0.06 U	0.6 U
T3B1	01/13/2011	13'-15'	0.31 U	0.31 U	0.31 U	0.062 U	0.62 U	0.062 U	0.062 U	0.062 U	0.62 U
T3B2	01/13/2011	3'-5'	0.3 U	0.3 U	0.3 U	0.06 U	0.6 U	0.06 U	0.06 U	0.06 U	0.6 U
T3B2	01/13/2011	8'-10'	0.33 U	0.33 U	0.33 U	0.066 U	0.66 U	0.066 U	0.066 U	0.066 U	0.66 U
T3B2	01/13/2011	13'-15'	0.31 U	0.31 U	0.31 U	0.062 U	0.62 U	0.062 U	0.062 U	0.062 U	0.62 U
T3B2	01/13/2011	13'-15'	0.31 U	0.31 U	0.31 U	0.061 U	0.61 U	0.061 U	0.061 U	0.061 U	0.61 U
T3B3	01/13/2011	3'-5'	0.32 U	0.32 U	0.32 U	0.064 U	0.64 U	0.064 U	0.064 U	0.064 U	0.64 U
T3B3	01/13/2011	8'-10'	0.31 U	0.31 U	0.31 U	0.063 U	0.63 U	0.063 U	0.063 U	0.063 U	0.63 U
T3B3	01/13/2011	13'-15'	0.31 U	0.31 U	0.31 U	0.062 U	0.62 U	0.062 U	0.062 U	0.062 U	0.62 U
T3B4	01/13/2011	3'-5'	0.32 U	0.32 U	0.32 U	0.063 U	0.63 U	0.063 U	0.063 U	0.063 U	0.63 U
T3B4	01/13/2011	13'-15'	0.91 U	0.91 U	0.91 U	0.18 U	1.8 U	0.18 U	0.18 U	0.18 U	1.8 U
T3B4	01/13/2011	23'-25'	0.32 U	0.32 U	0.32 U	0.063 U	0.63 U	0.063 U	0.063 U	0.063 U	0.63 U

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-10B: Semivolatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Phenols (milligrams per kilogram)					Chlorinated Benzenes (milligrams per kilogram)				
		CAS	4-Chloro-3-methylphenol 59-50-7	4-Methylphenol (p-Cresol) 106-44-5	4-Nitrophenol 100-02-7	Pentachlorophenol 87-86-5	Phenol 108-95-2	1,2,4-Trichlorobenzene 120-82-1	1,2-Dichlorobenzene 95-50-1	1,3-Dichlorobenzene 541-73-1	1,4-Dichlorobenzene 106-46-7	Hexachlorobenzene 118-74-1
Area 1												
* MW-24	09/14/1992	3.5'-4'	—	—	—	—	—	0.1 U	0.1 U	—	0.1 U	—
* MW-24	09/14/1992	8.5'-9'	—	—	—	—	—	0.1 U	0.1 U	—	0.1 U	—
MW-25	09/14/1992	8'-5.8'	—	—	—	—	—	0.1 U	0.1 U	—	0.1 U	—
MW-30	01/30/1994	4.5'-5'	—	—	—	—	—	—	0.05 U	—	0.05 U	—
MW-30	01/30/1994	9'-9.5'	—	—	—	—	—	—	0.05 U	—	0.05 U	—
MW-48	02/12/2009	6'	—	—	—	—	—	0.00084 U	0.00084 U	—	0.00084 U	—
MW-48	02/12/2009	10.5'	—	—	—	—	—	0.0011 U	0.0011 U	—	0.0011 U	—
MW-48	02/12/2009	15.5'	—	—	—	—	—	0.001 U	0.001 U	—	0.001 U	—
* SB-08918	09/13/1994	2'	—	0.072 U	—	0.072 U	0.072 U	0.072 U	0.072 U	—	0.072 U	0.072 U
* SB-08918	09/13/1994	5'	—	0.08 U	—	0.4 U	0.16 U	0.08 U	0.08 U	—	0.08 U	0.08 U
* SB-08918	09/13/1994	12.5'	—	0.089 U	—	0.45 U	0.18 U	0.089 U	0.089 U	—	0.089 U	0.089 U
* SB-08918	09/13/1994	12.5'	—	0.087 U	—	0.43 U	0.17 U	0.087 U	0.087 U	—	0.087 U	0.087 U
Area 2												
MW-37	02/09/2009	11'	—	—	—	—	—	0.00074 U	0.00074 U	—	0.00074 U	—
MW-37	02/09/2009	15.5'	—	—	—	—	—	0.00082 U	0.00082 U	—	0.00082 U	—
Area 5												
MW-41	07/19/2008	5'	—	—	—	0.17 U	0.034 U	0.034 U	0.034 U	—	0.034 U	0.034 U
MW-41	07/19/2008	10'	—	—	—	0.18 U	0.035 U	0.035 U	0.035 U	—	0.035 U	0.035 U
MW-41	07/19/2008	20'	—	—	—	0.2 U	0.04 U	0.04 U	0.04 U	—	0.04 U	0.04 U
MW-41	07/19/2008	30'	—	—	—	0.22 U	0.043 U	0.043 U	0.043 U	—	0.043 U	0.043 U
Area 6												
MW-31	01/30/1994	5'-5.5'	—	—	—	—	—	—	0.05 U	—	0.05 U	—
MW-31	01/30/1994	9.5'-10'	—	—	—	—	—	—	0.05 U	—	0.05 U	—
MW-46	02/11/2009	6.5'	—	—	—	—	—	0.001 U	0.001 U	—	0.001 U	—
MW-46	02/11/2009	10.5'	—	—	—	—	—	0.0011 U	0.0011 U	—	0.0011 U	—
MW-46	02/11/2009	16.5'	—	—	—	—	—	0.001 U	0.001 U	—	0.001 U	—
Area 8												
JF-SB3BA1-6	09/06/2013	2.5'e	—	—	—	0.06 U	—	—	—	—	—	—
JF-SB3NSW-6	09/06/2013	1'	—	—	—	0.06 U	—	—	—	—	—	—
JF-SB4BA2-9	09/09/2013	6'	—	—	—	0.6 U	—	—	—	—	—	—
JF-SB4NSW-9	09/09/2013	4'	—	—	—	0.06 U	—	—	—	—	—	—
PEB-4	08/25/2014	0'-1'	—	**0.0062 J**	—	0.019 U	**0.0073 J**	0.0048 U	0.0048 U	—	0.0048 U	0.0048 U
PEB-5	08/25/2014	0'-1'	—	0.0047 U	—	0.019 U	0.0047 U	0.0047 U	0.0047 U	—	0.0047 U	0.0047 U
PEB-6	08/25/2014	0'-1'	—	**0.014 J**	—	—	**0.0095 J**	0.0049 U	0.0049 U	—	0.0049 U	0.0049 U

Table B-10B: Semivolatile Organic Compounds in Soil

	Sample Location	Sample Date	Sample Depth	Phenols (milligrams per kilogram)					Chlorinated Benzenes (milligrams per kilogram)				
			CAS	4-Chloro-3-methylphenol 59-50-7	4-Methylphenol (p-Cresol) 106-44-5	4-Nitrophenol 100-02-7	Pentachlorophenol 87-86-5	Phenol 108-95-2	1,2,4-Trichlorobenzene 120-82-1	1,2-Dichlorobenzene 95-50-1	1,3-Dichlorobenzene 541-73-1	1,4-Dichlorobenzene 106-46-7	Hexachlorobenzene 118-74-1
Area 9													
	DM-B-1	03/01/1990	11'	—	—	—	—	—	—	0.0025 U	0.0025 U	0.0025 U	—
	DM-SB-1	03/01/1990	0'-3.5'	—	—	—	—	—	—	0.0025 U	0.0025 U	0.0025 U	—
	DM-SB-2	03/01/1990	0'-3.5'	—	—	—	—	—	—	0.0025 U	0.0025 U	0.0025 U	—
	JF-DGP2	03/29/2012	0'-10'	0.53 U	0.21 U	0.53 U	1.1 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
	JF-DGP2	03/29/2012	2'-2'	—	—	—	—	—	0.0053 U	0.0011 U	0.0011 U	0.0011 U	—
	JF-DGP2	03/29/2012	10'-20'	0.098 U	0.039 U	0.098 U	0.2 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
	JF-DGP2	03/29/2012	16'	—	—	—	—	—	0.0062 U	0.0012 U	0.0012 U	0.0012 U	—
	JF-DGP2	03/29/2012	20'-30'	0.094 U	0.037 U	0.094 U	0.19 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
	JF-DGP2	03/29/2012	26'-26'	—	—	—	—	—	0.0059 U	0.0012 U	0.0012 U	0.0012 U	—
	JF-DGP3	03/28/2012	15'	—	—	—	—	—	0.0059 U	**0.0011 J**	**0.0008 J**	**0.0035**	—
	JF-DGP4	03/28/2012	17'	—	—	—	—	—	0.0052 U	**0.0006 J**	0.001 U	0.001 U	—
	JF-DGP4	03/28/2012	21'	—	—	—	—	—	0.0049 U	0.001 U	0.001 U	**0.0005 J**	—
	JF-DGP4	03/28/2012	26'-26'	—	—	—	—	—	0.0061 U	0.0012 U	0.0012 U	0.0012 U	—
	JF-DGP4	03/28/2012	31'	—	—	—	—	—	0.0059 U	0.0012 U	0.0012 U	0.0012 U	—
	JF-DGP4	03/28/2012	33'	—	—	—	—	—	0.0061 U	0.0012 U	0.0012 U	0.0012 U	—
	JF-DGP5	03/29/2012	0'-10'	0.56 U	0.22 U	0.56 U	1.1 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
	JF-DGP5	03/29/2012	2'-2'	—	—	—	—	—	0.0053 U	0.0011 U	0.0011 U	0.0011 U	—
	JF-DGP5	03/29/2012	10'-20'	0.54 U	0.22 U	0.54 U	1.1 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
	JF-DGP5	03/29/2012	16'	—	—	—	—	—	0.0047 U	0.0009 U	0.0009 U	0.0009 U	—
	JF-DGP5	03/29/2012	20'-30'	0.27 U	0.11 U	0.27 U	0.55 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
	JF-DGP5	03/29/2012	26'-26'	—	—	—	—	—	0.006 U	0.0012 U	0.0012 U	0.0012 U	—
	JF-DGP6	03/30/2012	18.5'	—	—	—	—	—	0.0079 U	**0.019 J**	**0.0029 J**	**0.0051 J**	—
	JF-DGP6	03/30/2012	21'	—	—	—	—	—	0.0069 U	**0.0056**	**0.0011 J**	**0.0014**	—
	JF-DGP6	03/30/2012	26'-26'	—	—	—	—	—	0.38 U	0.075 U	0.075 U	0.075 U	—
*	MW-24	09/14/1992	3.5'-4'	—	—	—	—	—	0.1 U	0.1 U	—	0.1 U	—
*	MW-24	09/14/1992	8.5'-9'	—	—	—	—	—	0.1 U	0.1 U	—	0.1 U	—
	MW-50	02/12/2009	6.5'	—	—	—	—	—	0.001 U	0.001 U	—	0.001 U	—
	MW-50	02/12/2009	11'	—	—	—	—	—	0.00095 U	0.00095 U	—	0.00095 U	—
	MW-51	02/12/2009	5.5'	—	—	—	—	—	0.00071 U	0.00071 U	—	0.00071 U	—
	MW-51	02/12/2009	10.5'	—	—	—	—	—	0.00095 U	0.00095 U	—	0.00095 U	—
	MW-52	02/12/2009	5.5'	—	—	—	—	—	0.00083 U	0.00083 U	—	0.00083 U	—
	MW-52	02/12/2009	11.5'	—	—	—	—	—	0.001 U	0.001 U	—	0.001 U	—
	PEB-1	08/25/2014	0'-1'	—	0.014 U	—	**0.038 J**	0.014 U	0.014 U	0.014 U	—	0.014 U	0.014 U
	PEB-2	08/25/2014	0'-1'	—	0.015 U	—	0.058 U	0.015 U	0.015 U	0.015 U	—	0.015 U	0.015 U
	PEB-3	08/25/2014	0'-1'	—	**0.04 J**	—	—	—	0.0047 U	0.0047 U	—	0.0047 U	0.0047 U
*	SB-08918	09/13/1994	2'	—	0.072 U	—	0.072 U	0.072 U	0.072 U	0.072 U	—	0.072 U	0.072 U
*	SB-08918	09/13/1994	5'	—	0.08 U	—	0.4 U	0.16 U	0.08 U	0.08 U	—	0.08 U	0.08 U
*	SB-08918	09/13/1994	12.5'	—	0.089 U	—	0.45 U	0.18 U	0.089 U	0.089 U	—	0.089 U	0.089 U

Table B-10B: Semivolatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Phenols (milligrams per kilogram)					Chlorinated Benzenes (milligrams per kilogram)				
		CAS	4-Chloro-3-methylphenol 59-50-7	4-Methylphenol (p-Cresol) 106-44-5	4-Nitrophenol 100-02-7	Pentachlorophenol 87-86-5	Phenol 108-95-2	1,2,4-Trichlorobenzene 120-82-1	1,2-Dichlorobenzene 95-50-1	1,3-Dichlorobenzene 541-73-1	1,4-Dichlorobenzene 106-46-7	Hexachlorobenzene 118-74-1
* SB-08918	09/13/1994	12.5'	—	0.087 U	—	0.43 U	0.17 U	0.087 U	0.087 U	—	0.087 U	0.087 U
T2B1	01/13/2011	3'-5'	0.33 U	0.066 U	0.33 U	0.33 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
T2B1	01/13/2011	8'-10'	0.31 U	0.062 U	0.31 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
T2B1	01/13/2011	13'-15'	0.31 U	0.062 U	0.31 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
T2B2	01/13/2011	3'-5'	0.3 U	0.061 U	0.3 U	0.3 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
T2B2	01/13/2011	8'-10'	0.31 U	0.063 U	0.31 U	0.31 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
T2B2	01/13/2011	13'-15'	0.33 U	0.065 U	0.33 U	0.33 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
T2B3	01/13/2011	2'-4'	0.32 U	0.064 U	0.32 U	0.32 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
T2B3	01/13/2011	8'-10'	0.3 U	0.06 U	0.3 U	0.3 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
T2B3	01/13/2011	13'-15'	0.32 U	0.065 U	0.32 U	0.32 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
T2B4	01/13/2011	3'-5'	0.31 U	0.063 U	0.31 U	0.31 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
T2B4	01/13/2011	18'-20'	0.61 U	0.12 U	0.61 U	0.61 U	0.12 U	0.12 U	**0.27**	0.12 U	**0.15**	0.12 U
T2B4	01/13/2011	23'-25'	0.31 U	0.062 U	0.31 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
T3B1	01/13/2011	3'-5'	0.32 U	0.064 U	0.32 U	0.32 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
T3B1	01/13/2011	8'-10'	0.3 U	0.06 U	0.3 U	0.3 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
T3B1	01/13/2011	13'-15'	0.31 U	0.062 U	0.31 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
T3B2	01/13/2011	3'-5'	0.3 U	0.06 U	0.3 U	0.3 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
T3B2	01/13/2011	8'-10'	0.33 U	0.066 U	0.33 U	0.33 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
T3B2	01/13/2011	13'-15'	0.31 U	0.062 U	0.31 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
T3B2	01/13/2011	13'-15'	0.31 U	0.061 U	0.31 U	0.31 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
T3B3	01/13/2011	3'-5'	0.32 U	0.064 U	0.32 U	0.32 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
T3B3	01/13/2011	8'-10'	0.31 U	0.063 U	0.31 U	0.31 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
T3B3	01/13/2011	13'-15'	0.31 U	0.062 U	0.31 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
T3B4	01/13/2011	3'-5'	0.32 U	0.063 U	0.32 U	0.32 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
T3B4	01/13/2011	13'-15'	0.91 U	0.18 U	0.91 U	0.91 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
T3B4	01/13/2011	23'-25'	0.32 U	0.063 U	0.32 U	0.32 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-10C: Semivolatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Phthalates (milligrams per kilogram)						Other SVOCs (milligrams per kilogram)			
			Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Dibutyl phthalate	Diethyl phthalate	Dimethyl phthalate	Di-n-octyl phthalate	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Nitroaniline
		CAS	117-81-7	85-68-7	84-74-2	84-66-2	131-11-3	117-84-0	121-14-2	606-20-2	91-58-7	88-74-4
Area 1												
* SB-08918	09/13/1994	2'	**0.12**	0.072 U	0.072 U	—	0.072 U	0.072 U	—	—	—	—
* SB-08918	09/13/1994	5'	0.08 U	0.08 U	0.08 U	—	0.08 U	0.08 U	—	—	—	—
* SB-08918	09/13/1994	12.5'	**0.14**	0.089 U	0.089 U	—	0.089 U	0.089 U	—	—	—	—
* SB-08918	09/13/1994	12.5'	**0.12**	0.087 U	0.087 U	—	0.087 U	0.087 U	—	—	—	—
Area 5												
MW-41	07/19/2008	5'	0.034 U	0.034 U	0.034 U	—	0.034 U	0.034 U	—	—	—	—
MW-41	07/19/2008	10'	**0.24**	0.035 U	0.035 U	—	0.035 U	0.035 U	—	—	—	—
MW-41	07/19/2008	20'	**0.042**	0.04 U	0.04 U	—	0.04 U	0.04 U	—	—	—	—
MW-41	07/19/2008	30'	0.043 U	0.043 U	0.043 U	—	0.043 U	0.043 U	—	—	—	—
Area 8												
JF-SB3BA1-6	09/06/2013	2.5'e	0.096 U	0.06 U	—	—	—	0.06 U	—	—	—	—
JF-SB3NSW-6	09/06/2013	1'	0.096 U	0.06 U	—	—	—	0.06 U	—	—	—	—
JF-SB4BA2-9	09/09/2013	6'	0.96 U	0.6 U	—	—	—	0.6 U	—	—	—	—
JF-SB4NSW-9	09/09/2013	4'	0.096 U	0.06 U	—	—	—	0.06 U	—	—	—	—
PEB-4	08/25/2014	0'-1'	0.048 U	**0.0046 J**	**0.0096**	—	0.0048 U	0.019 U	—	—	—	—
PEB-5	08/25/2014	0'-1'	0.047 U	0.0047 U	0.019 U	—	0.0047 U	0.019 U	—	—	—	—
PEB-6	08/25/2014	0'-1'	0.049 U	0.0049 U	**0.012 J**	—	0.0049 U	0.02 U	—	—	—	—
Area 9												
JF-DGP2	03/29/2012	0'-10'	0.13 U	0.11 U	**0.2**	0.26 U	0.11 U	0.11 U	0.53 U	0.53 U	0.11 U	0.53 U
JF-DGP2	03/29/2012	10'-20'	**0.38**	0.02 U	**0.054**	0.049 U	0.02 U	0.02 U	0.098 U	0.098 U	0.02 U	0.098 U
JF-DGP2	03/29/2012	20'-30'	**0.022 J**	0.019 U	0.019 U	0.047 U	0.019 U	0.019 U	0.094 U	0.094 U	0.019 U	0.094 U
JF-DGP5	03/29/2012	0'-10'	0.14 U	0.11 U	**0.12**	0.28 U	0.11 U	0.11 U	0.56 U	0.56 U	0.11 U	0.56 U
JF-DGP5	03/29/2012	10'-20'	0.13 U	0.11 U	**0.064 J**	0.27 U	0.11 U	0.11 U	0.54 U	0.54 U	0.11 U	0.54 U
JF-DGP5	03/29/2012	20'-30'	**0.12**	0.055 U	**0.038 J**	0.14 U	0.055 U	0.055 U	0.27 U	0.27 U	0.055 U	0.27 U
PEB-1	08/25/2014	0'-1'	0.14 U	0.014 U	**0.06**	—	0.014 U	0.057 U	—	—	—	—
PEB-2	08/25/2014	0'-1'	0.15 U	0.015 U	0.058 U	—	0.015 U	0.058 U	—	—	—	—
PEB-3	08/25/2014	0'-1'	0.047 U	0.0047 U	0.019 U	—	0.0047 U	0.019 U	—	—	—	—
* SB-08918	09/13/1994	2'	**0.12**	0.072 U	0.072 U	—	0.072 U	0.072 U	—	—	—	—
* SB-08918	09/13/1994	5'	0.08 U	0.08 U	0.08 U	—	0.08 U	0.08 U	—	—	—	—
* SB-08918	09/13/1994	12.5'	**0.14**	0.089 U	0.089 U	—	0.089 U	0.089 U	—	—	—	—
* SB-08918	09/13/1994	12.5'	**0.12**	0.087 U	0.087 U	—	0.087 U	0.087 U	—	—	—	—
T2B1	01/13/2011	3'-5'	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.33 U	0.33 U	0.066 U	0.33 U
T2B1	01/13/2011	8'-10'	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.31 U	0.31 U	0.062 U	0.31 U
T2B1	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.31 U	0.31 U	0.062 U	0.31 U
T2B2	01/13/2011	3'-5'	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.3 U	0.3 U	0.061 U	0.3 U
T2B2	01/13/2011	8'-10'	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.31 U	0.31 U	0.063 U	0.31 U
T2B2	01/13/2011	13'-15'	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.33 U	0.33 U	0.065 U	0.33 U
T2B3	01/13/2011	2'-4'	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.32 U	0.32 U	0.064 U	0.32 U
T2B3	01/13/2011	8'-10'	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.3 U	0.3 U	0.06 U	0.3 U
T2B3	01/13/2011	13'-15'	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.32 U	0.32 U	0.065 U	0.32 U
T2B4	01/13/2011	3'-5'	0.063 U	0.063 U	**0.065**	0.063 U	0.063 U	0.063 U	0.31 U	0.31 U	0.063 U	0.31 U
T2B4	01/13/2011	18'-20'	—	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.61 U	0.61 U	0.12 U	0.61 U
T2B4	01/13/2011	23'-25'	**0.82**	0.062 U	**0.19**	0.062 U	0.062 U	0.062 U	0.31 U	0.31 U	0.062 U	0.31 U
T3B1	01/13/2011	3'-5'	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.32 U	0.32 U	0.064 U	0.32 U
T3B1	01/13/2011	8'-10'	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.3 U	0.3 U	0.06 U	0.3 U
T3B1	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.31 U	0.31 U	0.062 U	0.31 U
T3B2	01/13/2011	3'-5'	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.3 U	0.3 U	0.06 U	0.3 U

Table B-10C: Semivolatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Phthalates (milligrams per kilogram)						Other SVOCs (milligrams per kilogram)			
			Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Dibutyl phthalate	Diethyl phthalate	Dimethyl phthalate	Di-n-octyl phthalate	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Nitroaniline
		CAS	117-81-7	85-68-7	84-74-2	84-66-2	131-11-3	117-84-0	121-14-2	606-20-2	91-58-7	88-74-4
T3B2	01/13/2011	8'-10'	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.33 U	0.33 U	0.066 U	0.33 U
T3B2	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.31 U	0.31 U	0.062 U	0.31 U
T3B2	01/13/2011	13'-15'	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.31 U	0.31 U	0.061 U	0.31 U
T3B3	01/13/2011	3'-5'	0.064 U	0.064 U	**0.12**	0.064 U	0.064 U	0.064 U	0.32 U	0.32 U	0.064 U	0.32 U
T3B3	01/13/2011	8'-10'	0.063 U	0.063 U	**0.79**	0.063 U	0.063 U	0.063 U	0.31 U	0.31 U	0.063 U	0.31 U
T3B3	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.31 U	0.31 U	0.062 U	0.31 U
T3B4	01/13/2011	3'-5'	**0.59**	0.063 U	**0.38**	0.063 U	0.063 U	0.063 U	0.32 U	0.32 U	0.063 U	0.32 U
T3B4	01/13/2011	13'-15'	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.91 U	0.91 U	0.18 U	0.91 U
T3B4	01/13/2011	23'-25'	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.32 U	0.32 U	0.063 U	0.32 U

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number; SVOC = semivolatile organic compound

Table B-10D: Semivolatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Other SVOCs (milligrams per kilogram)									
		CAS	3,3'-Dichlorobenzidine 91-94-1	3-Nitroaniline 99-09-2	4-Bromophenyl phenyl ether 101-55-3	4-Chloroaniline 106-47-8	4-Chlorophenyl phenyl ether 7005-72-3	4-Nitroaniline 100-01-6	Benzoic acid 65-85-0	Benzyl alcohol 100-51-6	Bis(2-chloro-1-methylethyl) ether 108-60-1	Bis(2-chloroethoxy) methane 111-91-1
Area 1												
* SB-08918	09/13/1994	2'	—	—	—	—	—	—	0.072 U	0.072 U	—	—
* SB-08918	09/13/1994	5'	—	—	—	—	—	—	0.8 U	0.4 U	—	—
* SB-08918	09/13/1994	12.5'	—	—	—	—	—	—	0.89 U	0.45 U	—	—
* SB-08918	09/13/1994	12.5'	—	—	—	—	—	—	0.87 U	0.43 U	—	—
Area 5												
MW-41	07/19/2008	5'	—	—	—	—	—	—	—	0.034 U	—	—
MW-41	07/19/2008	10'	—	—	—	—	—	—	—	0.035 U	—	—
MW-41	07/19/2008	20'	—	—	—	—	—	—	—	0.04 U	—	—
MW-41	07/19/2008	30'	—	—	—	—	—	—	—	0.043 U	—	—
Area 8												
PEB-4	08/25/2014	0'-1'	—	—	—	—	—	—	0.19 U	0.019 U	—	—
PEB-5	08/25/2014	0'-1'	—	—	—	—	—	—	—	0.019 U	—	—
PEB-6	08/25/2014	0'-1'	—	—	—	—	—	—	—	0.02 U	—	—
Area 9												
JF-DGP2	03/29/2012	0'-10'	0.8 U	0.53 U	0.11 U	1.4 U	0.11 U	0.53 U	2.1 U	0.11 U	0.11 U	0.11 U
JF-DGP2	03/29/2012	10'-20'	0.15 U	0.098 U	0.02 U	0.26 U	0.02 U	0.098 U	0.39 U	0.02 U	0.02 U	0.02 U
JF-DGP2	03/29/2012	20'-30'	0.14 U	0.094 U	0.019 U	0.25 U	0.019 U	0.094 U	0.37 U	0.019 U	0.019 U	0.019 U
JF-DGP5	03/29/2012	0'-10'	0.84 U	0.56 U	0.11 U	1.5 U	0.11 U	0.56 U	2.2 U	0.11 U	0.11 U	0.11 U
JF-DGP5	03/29/2012	10'-20'	0.81 U	0.54 U	0.11 U	1.4 U	0.11 U	0.54 U	2.2 U	0.11 U	0.11 U	0.11 U
JF-DGP5	03/29/2012	20'-30'	0.41 U	0.27 U	0.055 U	0.74 U	0.055 U	0.27 U	1.1 U	0.055 U	0.055 U	0.055 U
PEB-1	08/25/2014	0'-1'	—	—	—	—	—	—	**0.18 J**	0.057 U	—	—
PEB-2	08/25/2014	0'-1'	—	—	—	—	—	—	0.58 U	0.058 U	—	—
PEB-3	08/25/2014	0'-1'	—	—	—	—	—	—	—	0.019 U	—	—
* SB-08918	09/13/1994	2'	—	—	—	—	—	—	0.072 U	0.072 U	—	—
* SB-08918	09/13/1994	5'	—	—	—	—	—	—	0.8 U	0.4 U	—	—
* SB-08918	09/13/1994	12.5'	—	—	—	—	—	—	0.89 U	0.45 U	—	—
* SB-08918	09/13/1994	12.5'	—	—	—	—	—	—	0.87 U	0.43 U	—	—
T2B1	01/13/2011	3'-5'	0.33 U	0.33 U	0.066 U	0.33 U	0.066 U	0.33 U	0.66 U	0.33 U	—	0.066 U
T2B1	01/13/2011	8'-10'	0.31 U	0.31 U	0.062 U	0.31 U	0.062 U	0.31 U	0.62 U	0.31 U	—	0.062 U
T2B1	01/13/2011	13'-15'	0.31 U	0.31 U	0.062 U	0.31 U	0.062 U	0.31 U	0.62 U	0.31 U	—	0.062 U
T2B2	01/13/2011	3'-5'	0.3 U	0.3 U	0.061 U	0.3 U	0.061 U	0.3 U	0.61 U	0.3 U	—	0.061 U
T2B2	01/13/2011	8'-10'	0.31 U	0.31 U	0.063 U	0.31 U	0.063 U	0.31 U	0.63 U	0.31 U	—	0.063 U
T2B2	01/13/2011	13'-15'	0.33 U	0.33 U	0.065 U	0.33 U	0.065 U	0.33 U	0.65 U	0.33 U	—	0.065 U
T2B3	01/13/2011	2'-4'	0.32 U	0.32 U	0.064 U	0.32 U	0.064 U	0.32 U	0.64 U	0.32 U	—	0.064 U
T2B3	01/13/2011	8'-10'	0.3 U	0.3 U	0.06 U	0.3 U	0.06 U	0.3 U	0.6 U	0.3 U	—	0.06 U
T2B3	01/13/2011	13'-15'	0.32 U	0.32 U	0.065 U	0.32 U	0.065 U	0.32 U	0.65 U	0.32 U	—	0.065 U

Table B-10D: Semivolatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Other SVOCs (milligrams per kilogram)									
			3,3'-Dichlorobenzidine	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Nitroaniline	Benzoic acid	Benzyl alcohol	Bis(2-chloro-1-methylethyl) ether	Bis(2-chloroethoxy) methane
		CAS	91-94-1	99-09-2	101-55-3	106-47-8	7005-72-3	100-01-6	65-85-0	100-51-6	108-60-1	111-91-1
T2B4	01/13/2011	3'-5'	0.31 U	0.31 U	0.063 U	0.31 U	0.063 U	0.31 U	0.63 U	0.31 U	—	0.063 U
T2B4	01/13/2011	18'-20'	0.61 U	0.61 U	0.12 U	0.61 U	0.12 U	0.61 U	1.2 U	0.61 U	—	0.12 U
T2B4	01/13/2011	23'-25'	0.31 U	0.31 U	0.062 U	0.31 U	0.062 U	0.31 U	0.62 U	0.31 U	—	0.062 U
T3B1	01/13/2011	3'-5'	0.32 U	0.32 U	0.064 U	0.32 U	0.064 U	0.32 U	0.64 U	0.32 U	—	0.064 U
T3B1	01/13/2011	8'-10'	0.3 U	0.3 U	0.06 U	0.3 U	0.06 U	0.3 U	0.6 U	0.3 U	—	0.06 U
T3B1	01/13/2011	13'-15'	0.31 U	0.31 U	0.062 U	0.31 U	0.062 U	0.31 U	0.62 U	0.31 U	—	0.062 U
T3B2	01/13/2011	3'-5'	0.3 U	0.3 U	0.06 U	0.3 U	0.06 U	0.3 U	0.6 U	0.3 U	—	0.06 U
T3B2	01/13/2011	8'-10'	0.33 U	0.33 U	0.066 U	0.33 U	0.066 U	0.33 U	0.66 U	0.33 U	—	0.066 U
T3B2	01/13/2011	13'-15'	0.31 U	0.31 U	0.062 U	0.31 U	0.062 U	0.31 U	0.62 U	0.31 U	—	0.062 U
T3B2	01/13/2011	13'-15'	0.31 U	0.31 U	0.061 U	0.31 U	0.061 U	0.31 U	0.61 U	0.31 U	—	0.061 U
T3B3	01/13/2011	3'-5'	0.32 U	0.32 U	0.064 U	0.32 U	0.064 U	0.32 U	0.64 U	0.32 U	—	0.064 U
T3B3	01/13/2011	8'-10'	0.31 U	0.31 U	0.063 U	0.31 U	0.063 U	0.31 U	0.63 U	0.31 U	—	0.063 U
T3B3	01/13/2011	13'-15'	0.31 U	0.31 U	0.062 U	0.31 U	0.062 U	0.31 U	0.62 U	0.31 U	—	0.062 U
T3B4	01/13/2011	3'-5'	0.32 U	0.32 U	0.063 U	0.32 U	0.063 U	0.32 U	0.63 U	0.32 U	—	0.063 U
T3B4	01/13/2011	13'-15'	0.91 U	0.91 U	0.18 U	0.91 U	0.18 U	0.91 U	1.8 U	0.91 U	—	0.18 U
T3B4	01/13/2011	23'-25'	0.32 U	0.32 U	0.063 U	0.32 U	0.063 U	0.32 U	0.63 U	0.32 U	—	0.063 U

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number; SVOC = semivolatile organic compound

Table B-10E: Semivolatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Other SVOCs (milligrams per kilogram)								
		CAS	Bis(2-chloroethyl)ether 111-44-4	Carbazole 86-74-8	Hexachlorobutadiene 87-68-3	Hexachlorocyclopentadiene 77-47-4	Hexachloroethane 67-72-1	Isophorone 78-59-1	Nitrobenzene 98-95-3	n-Nitrosodi-n-propylamine 621-64-7	n-Nitrosodiphenylamine 86-30-6
Area 1											
MW-48	02/12/2009	6'	—	—	0.0042 U	—	—	—	—	—	—
MW-48	02/12/2009	10.5'	—	—	0.0054 U	—	—	—	—	—	—
MW-48	02/12/2009	15.5'	—	—	0.0051 U	—	—	—	—	—	—
* SB-08918	09/13/1994	2'	—	—	0.14 U	—	—	—	—	—	0.072 U
* SB-08918	09/13/1994	5'	—	—	0.16 U	—	—	—	—	—	0.08 U
* SB-08918	09/13/1994	12.5'	—	—	0.18 U	—	—	—	—	—	0.089 U
* SB-08918	09/13/1994	12.5'	—	—	0.17 U	—	—	—	—	—	0.087 U
Area 2											
MW-37	02/09/2009	11'	—	—	0.0037 U	—	—	—	—	—	—
MW-37	02/09/2009	15.5'	—	—	0.0041 U	—	—	—	—	—	—
Area 5											
MW-41	07/19/2008	5'	—	—	0.034 U	—	—	—	—	—	0.034 U
MW-41	07/19/2008	10'	—	—	0.035 U	—	—	—	—	—	0.035 U
MW-41	07/19/2008	20'	—	—	0.04 U	—	—	—	—	—	0.04 U
MW-41	07/19/2008	30'	—	—	0.043 U	—	—	—	—	—	0.043 U
Area 6											
MW-46	02/11/2009	6.5'	—	—	0.0052 U	—	—	—	—	—	—
MW-46	02/11/2009	10.5'	—	—	0.0056 U	—	—	—	—	—	—
MW-46	02/11/2009	16.5'	—	—	0.0052 U	—	—	—	—	—	—
Area 8											
PEB-4	08/25/2014	0'-1'	—	—	0.0048 U	—	—	—	—	—	**0.01**
PEB-5	08/25/2014	0'-1'	—	—	0.0047 U	—	—	—	—	—	0.0047 U
PEB-6	08/25/2014	0'-1'	—	—	0.0049 U	—	—	—	—	—	**0.014**
Area 9											
JF-DGP2	03/29/2012	0'-10'	0.11 U	0.11 U	0.53 U	2.1 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
JF-DGP2	03/29/2012	2'-2'	—	—	0.0053 U	—	—	—	—	—	—
JF-DGP2	03/29/2012	10'-20'	0.02 U	0.02 U	0.098 U	0.39 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
JF-DGP2	03/29/2012	16'	—	—	0.0062 U	—	—	—	—	—	—
JF-DGP2	03/29/2012	20'-30'	0.019 U	0.019 U	0.094 U	0.37 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
JF-DGP2	03/29/2012	26'-26'	—	—	0.0059 U	—	—	—	—	—	—
JF-DGP3	03/28/2012	15'	—	—	0.0059 U	—	—	—	—	—	—
JF-DGP4	03/28/2012	17'	—	—	0.0052 U	—	—	—	—	—	—
JF-DGP4	03/28/2012	21'	—	—	0.0049 U	—	—	—	—	—	—
JF-DGP4	03/28/2012	26'-26'	—	—	0.0061 U	—	—	—	—	—	—
JF-DGP4	03/28/2012	31'	—	—	0.0059 U	—	—	—	—	—	—
JF-DGP4	03/28/2012	33'	—	—	0.0061 U	—	—	—	—	—	—
JF-DGP5	03/29/2012	0'-10'	0.11 U	0.11 U	0.56 U	2.2 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
JF-DGP5	03/29/2012	2'-2'	—	—	0.0053 U	—	—	—	—	—	—
JF-DGP5	03/29/2012	10'-20'	0.11 U	0.11 U	0.54 U	2.2 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
JF-DGP5	03/29/2012	16'	—	—	0.0047 U	—	—	—	—	—	—
JF-DGP5	03/29/2012	20'-30'	0.055 U	0.055 U	0.27 U	1.1 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U
JF-DGP5	03/29/2012	26'-26'	—	—	0.006 U	—	—	—	—	—	—
JF-DGP6	03/30/2012	18.5'	—	—	0.0079 U	—	—	—	—	—	—
JF-DGP6	03/30/2012	21'	—	—	0.0069 U	—	—	—	—	—	—
JF-DGP6	03/30/2012	26'-26'	—	—	0.38 U	—	—	—	—	—	—
MW-50	02/12/2009	6.5'	—	—	0.0052 U	—	—	—	—	—	—

Table B-10E: Semivolatile Organic Compounds in Soil

	Sample Location	Sample Date	Sample Depth	Other SVOCs (milligrams per kilogram)								
			CAS	Bis(2-chloroethyl)ether 111-44-4	Carbazole 86-74-8	Hexachlorobutadiene 87-68-3	Hexachlorocyclopentadiene 77-47-4	Hexachloroethane 67-72-1	Isophorone 78-59-1	Nitrobenzene 98-95-3	n-Nitrosodi-n-propylamine 621-64-7	n-Nitrosodiphenylamine 86-30-6
	MW-50	02/12/2009	11'	—	—	0.0047 U	—	—	—	—	—	—
	MW-51	02/12/2009	5.5'	—	—	0.0036 U	—	—	—	—	—	—
	MW-51	02/12/2009	10.5'	—	—	0.0047 U	—	—	—	—	—	—
	MW-52	02/12/2009	5.5'	—	—	0.0041 U	—	—	—	—	—	—
	MW-52	02/12/2009	11.5'	—	—	0.0051 U	—	—	—	—	—	—
	PEB-1	08/25/2014	0'-1'	—	—	0.014 U	—	—	—	—	—	**0.01 J**
	PEB-2	08/25/2014	0'-1'	—	—	0.015 U	—	—	—	—	—	**0.011 J**
	PEB-3	08/25/2014	0'-1'	—	—	0.0047 U	—	—	—	—	—	**0.0046 J**
*	SB-08918	09/13/1994	2'	—	—	0.14 U	—	—	—	—	—	0.072 U
*	SB-08918	09/13/1994	5'	—	—	0.16 U	—	—	—	—	—	0.08 U
*	SB-08918	09/13/1994	12.5'	—	—	0.18 U	—	—	—	—	—	0.089 U
*	SB-08918	09/13/1994	12.5'	—	—	0.17 U	—	—	—	—	—	0.087 U
	T2B1	01/13/2011	3'-5'	0.066 U	0.066 U	0.066 U	0.33 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
	T2B1	01/13/2011	8'-10'	0.062 U	0.062 U	0.062 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
	T2B1	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
	T2B2	01/13/2011	3'-5'	0.061 U	0.061 U	0.061 U	0.3 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
	T2B2	01/13/2011	8'-10'	0.063 U	0.063 U	0.063 U	0.31 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
	T2B2	01/13/2011	13'-15'	0.065 U	0.065 U	0.065 U	0.33 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
	T2B3	01/13/2011	2'-4'	0.064 U	0.064 U	0.064 U	0.32 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
	T2B3	01/13/2011	8'-10'	0.06 U	0.06 U	0.06 U	0.3 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
	T2B3	01/13/2011	13'-15'	0.065 U	0.065 U	0.065 U	0.32 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
	T2B4	01/13/2011	3'-5'	0.063 U	0.063 U	0.063 U	0.31 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
	T2B4	01/13/2011	18'-20'	0.12 U	0.12 U	0.12 U	0.61 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
	T2B4	01/13/2011	23'-25'	0.062 U	0.062 U	0.062 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
	T3B1	01/13/2011	3'-5'	0.064 U	0.064 U	0.064 U	0.32 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
	T3B1	01/13/2011	8'-10'	0.06 U	0.06 U	0.06 U	0.3 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
	T3B1	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
	T3B2	01/13/2011	3'-5'	0.06 U	0.06 U	0.06 U	0.3 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
	T3B2	01/13/2011	8'-10'	0.066 U	0.066 U	0.066 U	0.33 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
	T3B2	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
	T3B2	01/13/2011	13'-15'	0.061 U	0.061 U	0.061 U	0.31 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
	T3B3	01/13/2011	3'-5'	0.064 U	0.064 U	0.064 U	0.32 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
	T3B3	01/13/2011	8'-10'	0.063 U	0.063 U	0.063 U	0.31 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
	T3B3	01/13/2011	13'-15'	0.062 U	0.062 U	0.062 U	0.31 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
	T3B4	01/13/2011	3'-5'	0.063 U	0.063 U	0.063 U	0.32 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
	T3B4	01/13/2011	13'-15'	0.18 U	0.18 U	0.18 U	0.91 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
	T3B4	01/13/2011	23'-25'	0.063 U	0.063 U	0.063 U	0.32 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number; SVOC = semivolatile organic compound

Table B-11A: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Phenols (micrograms per liter)								
			2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2-Chlorophenol	2-Methylphenol (o-Cresol)	2-Nitrophenol	4,6-Dinitro-2-methylphenol
		CAS	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	95-57-8	95-48-7	88-75-5	534-52-1
Area 1											
* GP-08901	14'	09/14/1994	—	—	—	2 U	—	—	1 U	—	—
* GP-08901	14'	09/14/1994	—	—	—	2 U	—	—	1 U	—	—
* GP-08902	14'	09/14/1994	—	—	—	**2 R**	—	—	**1 R**	—	—
* GP-08903	14'	09/14/1994	—	—	—	2 U	—	—	1 U	—	—
* GP-08904	14'	09/14/1994	—	—	—	2 U	—	—	1 U	—	—
* GP-08905	14'	09/13/1994	—	—	—	2 U	—	—	1 U	—	—
MW-9	5'-20'	01/31/2008	—	—	—	0.98 U	—	—	0.98 U	—	—
* MW-23	6'-15.75'	01/31/2008	—	—	—	0.95 U	—	—	0.95 U	—	—
* MW-23	6'-15.75'	02/26/2009	—	—	—	1 U	—	—	1 U	—	—
* MW-24	6'-19.75'	01/31/2008	—	—	—	0.96 U	—	—	0.96 U	—	—
* MW-24	6'-19.75'	02/26/2009	—	—	—	1 U	—	—	1 U	—	—
* MW-24		08/25/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
* MW-24		02/09/2018	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-25	6'-19.75'	01/31/2008	—	—	—	0.97 U	—	—	0.97 U	—	—
MW-25	6'-19.75'	02/26/2009	—	—	—	1 U	—	—	1 U	—	—
MW-30	5'-19.5'	01/31/2008	—	—	—	0.97 U	—	—	0.97 U	—	—
MW-30		08/18/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-48	5'-17'	02/26/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
MW-48	5'-17'	05/20/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
MW-48	5'-17'	08/26/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
MW-48	5'-17'	12/10/2009	—	—	—	0.96 U	—	—	0.96 U	—	—
Area 2											
MW-7	10'-20'	02/01/2008	—	—	—	0.99 U	—	—	0.99 U	—	—
MW-7	10'-20'	02/25/2009	—	—	—	1 U	—	—	1 U	—	—
MW-14	5'-20'	02/01/2008	—	—	—	0.97 U	—	—	0.97 U	—	—
MW-14	5'-20'	02/27/2009	—	—	—	1 U	—	—	1 U	—	—
MW-14		08/25/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-14		02/12/2018	1.8 U	1.9 U	1.9 U	1 U	4.9 U	0.4 U	0.3 U	0.5 U	5 U
MW-15	5'-20'	01/31/2008	—	—	—	0.99 U	—	—	0.99 U	—	—
MW-32	5'-20'	02/01/2008	—	—	—	0.98 U	—	—	0.98 U	—	—
MW-32	5'-20'	02/27/2009	—	—	—	1 U	—	—	1 U	—	—
MW-32		08/24/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-32		02/07/2018	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-34	5'-15'	02/01/2008	—	—	—	0.95 U	—	—	0.95 U	—	—
MW-36		02/01/2008	—	—	—	0.98 U	—	—	0.98 U	—	—
MW-36		02/27/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
MW-37	10'-25'	02/25/2009	—	—	—	1 U	—	—	1 U	—	—
MW-37	10'-25'	05/20/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
MW-37	10'-25'	08/27/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
MW-37	10'-25'	12/11/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
MW-37		08/17/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
Area 3											
MW-3	4.5'-19.75'	01/31/2008	—	—	—	0.99 U	—	—	0.99 U	—	—
MW-4	4.75'-20'	01/31/2008	—	—	—	0.99 U	—	—	0.99 U	—	—
MW-8	5'-20'	01/31/2008	—	—	—	0.99 U	—	—	0.99 U	—	—
MW-8	5'-20'	02/26/2009	—	—	—	1 U	—	—	1 U	—	—

Table B-11A: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Phenols (micrograms per liter)								
			2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2-Chlorophenol	2-Methylphenol (o-Cresol)	2-Nitrophenol	4,6-Dinitro-2-methylphenol
		CAS	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	95-57-8	95-48-7	88-75-5	534-52-1
Area 4											
MW-10	5'-20'	02/01/2008	—	—	—	0.98 U	—	—	0.98 U	—	—
MW-11	5'-20'	01/31/2008	—	—	—	0.98 U	—	—	0.98 U	—	—
MW-11	5'-20'	02/25/2009	—	—	—	1 U	—	—	1 U	—	—
Area 5											
MW-40	10'-25'	02/27/2009	—	—	—	0.94 U	—	—	0.94 U	—	—
MW-40	10'-25'	05/20/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
MW-40	10'-25'	08/26/2009	—	—	—	0.98 U	—	—	0.98 U	—	—
MW-40	10'-25'	12/18/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
MW-40		02/08/2018	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-41	30'-40'	02/27/2009	—	—	—	1 U	—	—	1 U	—	—
MW-41	30'-40'	05/20/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
MW-41	30'-40'	08/26/2009	—	—	—	0.99 U	—	—	0.99 U	—	—
MW-41	30'-40'	12/18/2009	—	—	—	0.99 U	—	—	0.99 U	—	—
MW-41		08/21/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-41		02/08/2018	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
Area 6											
* MW-6	10'-20'	01/30/2008	—	—	—	1 U	—	—	1 U	—	—
MW-31	5'-19'	01/30/2008	—	—	—	0.98 U	—	—	0.98 U	—	—
MW-31	5'-19'	02/26/2009	—	—	—	1 U	—	—	1 U	—	—
MW-31		08/16/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-31		02/06/2018	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-45	30'-40'	02/26/2009	—	—	—	1 U	—	—	1 U	—	—
MW-45	30'-40'	05/21/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
MW-45	30'-40'	08/27/2009	—	—	—	1 U	—	—	1 U	—	—
MW-45	30'-40'	12/11/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
MW-46	5'-20'	02/26/2009	—	—	—	0.99 U	—	—	0.99 U	—	—
MW-46	5'-20'	05/21/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
MW-46	5'-20'	08/27/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
MW-46	5'-20'	12/11/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
MW-46		08/24/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-46		08/24/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-46		02/06/2018	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
Area 7											
MW-38	10'-25'	02/24/2009	—	—	—	1 U	—	—	1 U	—	—
MW-38	10'-25'	05/20/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
MW-38	10'-25'	08/25/2009	—	—	—	1 U	—	—	1 U	—	—
MW-38	10'-25'	12/10/2009	—	—	—	0.96 U	—	—	0.96 U	—	—
* MW-39	5'-20'	02/24/2009	—	—	—	0.98 U	—	—	0.98 U	—	—
* MW-39	5'-20'	05/20/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
* MW-39	5'-20'	08/26/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
* MW-39	5'-20'	12/10/2009	—	—	—	0.98 U	—	—	0.98 U	—	—
* MW-42	5'-20'	02/25/2009	—	—	—	0.99 U	—	—	0.99 U	—	—
* MW-42	5'-20'	05/20/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
* MW-42	5'-20'	08/26/2009	—	—	—	0.96 U	—	—	0.96 U	—	—
* MW-42	5'-20'	12/10/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
* MW-43	30'-40'	02/25/2009	—	—	—	0.99 U	—	—	0.99 U	—	—
* MW-43	30'-40'	05/20/2009	—	—	—	0.95 U	—	—	0.95 U	—	—

Table B-11A: Semivolatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Phenols (micrograms per liter)								
				2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2-Chlorophenol	2-Methylphenol (o-Cresol)	2-Nitrophenol	4,6-Dinitro-2-methylphenol
			CAS	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	95-57-8	95-48-7	88-75-5	534-52-1
*	MW-43	30'-40'	08/26/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
*	MW-43	30'-40'	12/11/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
*	MW-44	50'-60'	02/25/2009	—	—	—	1 U	—	—	1 U	—	—
*	MW-44	50'-60'	05/20/2009	—	—	—	0.94 U	—	—	0.94 U	—	—
*	MW-44	50'-60'	08/26/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
*	MW-44	50'-60'	12/18/2009	—	—	—	0.98 U	—	—	0.98 U	—	—
Area 8												
*	MW-6	10'-20'	01/30/2008	—	—	—	1 U	—	—	1 U	—	—
*	MW-39	5'-20'	02/24/2009	—	—	—	0.98 U	—	—	0.98 U	—	—
*	MW-39	5'-20'	05/20/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
*	MW-39	5'-20'	08/26/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
*	MW-39	5'-20'	12/10/2009	—	—	—	0.98 U	—	—	0.98 U	—	—
*	MW-42	5'-20'	02/25/2009	—	—	—	0.99 U	—	—	0.99 U	—	—
*	MW-42	5'-20'	05/20/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
*	MW-42	5'-20'	08/26/2009	—	—	—	0.96 U	—	—	0.96 U	—	—
*	MW-42	5'-20'	12/10/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
*	MW-43	30'-40'	02/25/2009	—	—	—	0.99 U	—	—	0.99 U	—	—
*	MW-43	30'-40'	05/20/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
*	MW-43	30'-40'	08/26/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
*	MW-43	30'-40'	12/11/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
*	MW-44	50'-60'	02/25/2009	—	—	—	1 U	—	—	1 U	—	—
*	MW-44	50'-60'	05/20/2009	—	—	—	0.94 U	—	—	0.94 U	—	—
*	MW-44	50'-60'	08/26/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
*	MW-44	50'-60'	12/18/2009	—	—	—	0.98 U	—	—	0.98 U	—	—
	MW-47	5'-20'	02/25/2009	—	—	—	0.99 U	—	—	0.99 U	—	—
	MW-47	5'-20'	05/21/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
	MW-47	5'-20'	08/27/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
	MW-47	5'-20'	12/11/2009	—	—	—	0.97 U	—	—	0.97 U	—	—
Area 9												
*	GP-08901	14'	09/14/1994	—	—	—	2 U	—	—	1 U	—	—
*	GP-08901	14'	09/14/1994	—	—	—	2 U	—	—	1 U	—	—
*	GP-08902	14'	09/14/1994	—	—	—	**2 R**	—	—	**1 R**	—	—
*	GP-08903	14'	09/14/1994	—	—	—	2 U	—	—	1 U	—	—
*	GP-08904	14'	09/14/1994	—	—	—	2 U	—	—	1 U	—	—
*	GP-08905	14'	09/13/1994	—	—	—	2 U	—	—	1 U	—	—
	GP-09101	15'	09/12/1994	—	—	—	2 U	—	—	1 U	—	—
	GP-09102	14'	09/08/1994	—	—	—	2 U	—	—	1 U	—	—
	GP-09103	14'	09/08/1994	—	—	—	2 U	—	—	1 U	—	—
	MW-5	10'-20'	01/30/2008	—	—	—	0.96 U	—	—	0.96 U	—	—
	MW-5	10'-20'	02/24/2009	—	—	—	0.99 U	—	—	0.99 U	—	—
	MW-5	10'-20'	05/21/2009	—	—	—	0.95 U	—	—	0.95 U	—	—
	MW-5	10'-20'	08/27/2009	—	—	—	0.98 U	—	—	0.98 U	—	—
	MW-5	10'-20'	12/11/2009	—	—	—	0.99 U	—	—	0.99 U	—	—
*	MW-23	6'-15.75'	01/31/2008	—	—	—	0.95 U	—	—	0.95 U	—	—
*	MW-23	6'-15.75'	02/26/2009	—	—	—	1 U	—	—	1 U	—	—
*	MW-24	6'-19.75'	01/31/2008	—	—	—	0.96 U	—	—	0.96 U	—	—
*	MW-24	6'-19.75'	02/26/2009	—	—	—	1 U	—	—	1 U	—	—
*	MW-24		08/25/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
*	MW-24		02/09/2018	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U

Table B-11A: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Phenols (micrograms per liter)								
			2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2-Chlorophenol	2-Methylphenol (o-Cresol)	2-Nitrophenol	4,6-Dinitro-2-methylphenol
		CAS	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	95-57-8	95-48-7	88-75-5	534-52-1
MW-50		08/16/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-51		08/25/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-51		02/14/2018	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-52		08/18/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
MW-52		08/18/2017	0.1 U	0.2 U	0.1 U	0.3 U	0.2 U	0.03 U	0.03 U	0.04 U	0.4 U
PL2-JF01AR	23.2'-27'	08/01/2007	5 U	5 U	5 U	1 U	10 U	1 U	1 U	5 U	10 U
PL2-JF01AR	23'-27'	01/30/2008	—	—	—	0.96 U	—	—	0.96 U	—	—
PL2-JF01AR	23'-27'	02/04/2008	—	—	—	1 U	—	—	1 U	—	—
PL2-JF01B	40'-50'	08/01/2007	5 U	5 U	5 U	1 U	10 U	1 U	1 U	5 U	10 U
PL2-JF01B	40'-50'	01/30/2008	—	—	—	0.96 U	—	—	0.96 U	—	—
PL2-JF01C	74'-78.5'	08/01/2007	5 U	5 U	5 U	1 U	10 U	1 U	1 U	5 U	10 U
PL2-JF01C	74'-78'	01/30/2008	—	—	—	0.94 U	—	—	0.94 U	—	—
PL2-JF02A	5.5'-23'	08/01/2007	5 U	5 U	5 U	1 U	10 U	1 U	1 U	5 U	10 U
PL2-JF02A	8'-22.75'	01/30/2008	—	—	—	0.97 U	—	—	0.97 U	—	—
PL2-JF02A	8'-22.75'	02/04/2008	—	—	—	1 U	—	—	1 U	—	—
PL2-JF04A	8'-18'	01/30/2008	—	—	—	0.95 U	—	—	0.95 U	—	—

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-11B: Semivolatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Phenols (micrograms per liter)					Chlorinated Benzenes (micrograms per liter)				
			CAS	4-Chloro-3-methylphenol 59-50-7	4-Methylphenol (p-Cresol) 106-44-5	4-Nitrophenol 100-02-7	Pentachlorophenol 87-86-5	Phenol 108-95-2	1,2,4-Trichlorobenzene 120-82-1	1,2-Dichlorobenzene 95-50-1	1,3-Dichlorobenzene 541-73-1	1,4-Dichlorobenzene 106-46-7	Hexachlorobenzene 118-74-1
Area 1													
*	GP-08901	14'	09/14/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
*	GP-08901	14'	09/14/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
*	GP-08902	14'	09/14/1994	—	**1 R**	—	**5 R**	**2 R**	1 U	1 U	—	1 U	1 U
*	GP-08903	14'	09/14/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
*	GP-08904	14'	09/14/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
*	GP-08905	14'	09/13/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
	MW-1			—	—	—	—	—	—	12.5 U	—	12.5 U	—
	MW-9	5'-20'	01/31/2008	—	0.98 U	—	4.9 U	0.98 U	0.98 U	0.98 U	—	0.98 U	0.98 U
	MW-22	6'-15.75'	09/17/1992	—	—	—	—	—	2 U	2 U	—	2 U	—
	MW-22	6'-15.75'	03/13/1993	—	—	—	—	—	1 U	1 U	—	1 U	—
*	MW-23	6'-15.75'	12/29/2004	—	—	—	—	—	1 U	1 U	—	1 U	—
*	MW-23	6'-15.75'	01/31/2008	—	0.95 U	—	4.8 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
*	MW-23	6'-15.75'	02/26/2009	—	1 U	—	5 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
*	MW-23	6'-15.75'	05/21/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-23	6'-15.75'	08/27/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-23	6'-15.75'	12/11/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-24	6'-19.75'	09/17/1992	—	—	—	—	—	100 U	100 U	—	100 U	—
*	MW-24	6'-19.75'	01/31/2008	—	0.96 U	—	4.8 U	0.96 U	0.2 U	0.2 U	—	0.2 U	0.96 U
*	MW-24	6'-19.75'	02/26/2009	—	1 U	—	5.2 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
*	MW-24	6'-19.75'	05/20/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-24	6'-19.75'	08/26/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-24	6'-19.75'	12/10/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-24		08/25/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
*	MW-24		02/09/2018	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
	MW-25	6'-19.75'	09/17/1992	—	—	—	—	—	2000 U	2000 U	—	2000 U	—
	MW-25	6'-19.75'	03/13/1993	—	—	—	—	—	1 U	1 U	—	1 U	—
	MW-25	6'-19.75'	12/29/2004	—	—	—	—	—	1 U	1 U	—	1 U	—
	MW-25	6'-19.75'	01/31/2008	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
	MW-25	6'-19.75'	02/26/2009	—	1 U	—	5.1 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
	MW-25	6'-19.75'	05/20/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
	MW-25	6'-19.75'	08/26/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
	MW-25	6'-19.75'	12/11/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
	MW-30	5'-19.5'	01/31/2008	—	0.97 U	—	4.8 U	0.97 U	0.97 U	0.97 U	—	0.97 U	0.97 U
	MW-30		08/18/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
	MW-48		02/12/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
	MW-48		02/12/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
	MW-48	5'-17'	02/26/2009	—	0.95 U	—	4.8 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
	MW-48	5'-17'	05/20/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
	MW-48	5'-17'	08/26/2009	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
	MW-48	5'-17'	12/10/2009	—	0.96 U	—	4.8 U	0.96 U	0.2 U	0.2 U	—	0.2 U	0.96 U
*	MW-49	23'-27'	02/13/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-49	5'-17'	02/26/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-49	5'-17'	05/21/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-49	5'-17'	08/27/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-49	5'-17'	12/11/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—

Table B-11B: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Phenols (micrograms per liter)					Chlorinated Benzenes (micrograms per liter)				
			4-Chloro-3-methylphenol	4-Methylphenol (p-Cresol)	4-Nitrophenol	Pentachlorophenol	Phenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene
		CAS	59-50-7	106-44-5	100-02-7	87-86-5	108-95-2	120-82-1	95-50-1	541-73-1	106-46-7	118-74-1
Area 2												
MW-2			—	—	—	—	—	—	0.5 U	—	0.5 U	—
MW-7		03/02/1990	—	—	—	—	—	—	0.5 U	0.5 U	0.5 U	—
MW-7	10'-20'	02/01/2008	—	0.99 U	—	5 U	0.99 U	0.99 U	0.99 U	—	0.99 U	0.99 U
MW-7	10'-20'	02/25/2009	—	1 U	—	5.1 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
MW-14	5'-20'	02/01/2008	—	0.97 U	—	4.8 U	0.97 U	0.97 U	0.97 U	—	0.97 U	0.97 U
MW-14	5'-20'	02/27/2009	—	1 U	—	5.1 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
MW-14		08/25/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
MW-14		02/12/2018	2 U	0.4 U	1 U	2.6 U	0.2 U	0.3 U	0.3 U	0.3 U	0.3 U	0.4 U
MW-15	5'-20'	01/31/2008	—	0.99 U	—	4.9 U	0.99 U	0.99 U	0.99 U	—	0.99 U	0.99 U
MW-32	5'-20'	02/01/2008	—	0.98 U	—	4.9 U	0.98 U	0.98 U	0.98 U	—	0.98 U	0.98 U
MW-32	5'-20'	02/27/2009	—	1 U	—	5.1 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
MW-32		08/24/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
MW-32		02/07/2018	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
MW-34	5'-15'	02/01/2008	—	0.95 U	—	4.7 U	0.95 U	0.95 U	0.95 U	—	0.95 U	0.95 U
MW-36		02/01/2008	—	0.98 U	—	4.9 U	0.98 U	0.98 U	0.98 U	—	0.98 U	0.98 U
MW-36		02/27/2009	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
MW-37	10'-25'	02/25/2009	—	1 U	—	5 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
MW-37	10'-25'	05/20/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
MW-37	10'-25'	08/27/2009	—	0.97 U	—	4.8 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
MW-37	10'-25'	12/11/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
MW-37		08/17/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
Area 3												
MW-3	4.5'-19.75'	01/31/2008	—	0.99 U	—	5 U	0.99 U	0.99 U	0.99 U	—	0.99 U	0.99 U
MW-3			—	—	—	—	—	—	0.5 U	—	0.5 U	—
MW-4	4.75'-20'	01/31/2008	—	0.99 U	—	5 U	0.99 U	0.99 U	0.99 U	—	0.99 U	0.99 U
MW-8	5'-20'	01/31/2008	—	0.99 U	—	5 U	0.99 U	0.99 U	0.99 U	—	0.99 U	0.99 U
MW-8	5'-20'	02/26/2009	—	1 U	—	5 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
Area 4												
MW-10	5'-20'	02/01/2008	—	0.98 U	—	4.9 U	0.98 U	0.98 U	0.98 U	—	0.98 U	0.98 U
MW-11	5'-20'	01/31/2008	—	0.98 U	—	4.9 U	0.98 U	0.98 U	0.98 U	—	0.98 U	0.98 U
MW-11	5'-20'	02/25/2009	—	1 U	—	5 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
Area 5												
MW-40	10'-25'	02/27/2009	—	0.94 U	—	4.7 U	0.94 U	0.2 U	0.2 U	—	0.2 U	0.94 U
MW-40	10'-25'	05/20/2009	—	0.95 U	—	4.8 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
MW-40	10'-25'	08/26/2009	—	0.98 U	—	4.9 U	0.98 U	0.2 U	0.2 U	—	0.2 U	0.98 U
MW-40	10'-25'	12/18/2009	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
MW-40		02/08/2018	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
MW-41	30'-40'	02/27/2009	—	1 U	—	5 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
MW-41	30'-40'	05/20/2009	—	0.95 U	—	4.8 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
MW-41	30'-40'	08/26/2009	—	0.99 U	—	5 U	0.99 U	0.2 U	0.2 U	—	0.2 U	0.99 U
MW-41	30'-40'	12/18/2009	—	0.99 U	—	4.9 U	0.99 U	0.2 U	0.2 U	—	0.2 U	0.99 U
MW-41		08/21/2017	0.1 U	0.03 U	0.06 U	0.1 U	**0.1 J**	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
MW-41		02/08/2018	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U

Table B-11B: Semivolatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Phenols (micrograms per liter)					Chlorinated Benzenes (micrograms per liter)				
			CAS	4-Chloro-3-methylphenol 59-50-7	4-Methylphenol (p-Cresol) 106-44-5	4-Nitrophenol 100-02-7	Pentachlorophenol 87-86-5	Phenol 108-95-2	1,2,4-Trichlorobenzene 120-82-1	1,2-Dichlorobenzene 95-50-1	1,3-Dichlorobenzene 541-73-1	1,4-Dichlorobenzene 106-46-7	Hexachlorobenzene 118-74-1
Area 6													
*	MW-6		03/02/1990	—	—	—	—	—	—	0.5 U	0.5 U	0.5 U	—
*	MW-6	10'-20'	01/30/2008	—	1 U	—	5 U	1 U	1 U	1 U	—	1 U	1 U
	MW-31	5'-19'	12/29/2004	—	—	—	—	—	1 U	1 U	—	1 U	—
	MW-31	5'-19'	01/30/2008	—	0.98 U	—	4.9 U	0.98 U	0.98 U	0.98 U	—	0.98 U	0.98 U
	MW-31	5'-19'	02/26/2009	—	1 U	—	5.1 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
	MW-31		08/16/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
	MW-31		02/06/2018	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
	MW-45	30'-40'	02/26/2009	—	**18**	—	5.1 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
	MW-45	30'-40'	05/21/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
	MW-45	30'-40'	08/27/2009	—	1 U	—	5 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
	MW-45	30'-40'	12/11/2009	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
	MW-46	5'-20'	02/26/2009	—	0.99 U	—	5 U	0.99 U	0.2 U	0.2 U	—	0.2 U	0.99 U
	MW-46	5'-20'	05/21/2009	—	0.95 U	—	4.7 U	0.95 U	0.4 U	0.4 U	—	0.4 U	0.95 U
	MW-46	5'-20'	08/27/2009	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
	MW-46	5'-20'	12/11/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
	MW-46		08/24/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
	MW-46		08/24/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
	MW-46		02/06/2018	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
Area 7													
	MW-38	10'-25'	02/24/2009	—	1 U	—	5.1 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
	MW-38	10'-25'	05/20/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
	MW-38	10'-25'	08/25/2009	—	1 U	—	5 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
	MW-38	10'-25'	12/10/2009	—	0.96 U	—	4.8 U	0.96 U	0.2 U	0.2 U	—	0.2 U	0.96 U
*	MW-39	5'-20'	02/24/2009	—	0.98 U	—	4.9 U	0.98 U	0.2 U	0.2 U	—	0.2 U	0.98 U
*	MW-39	5'-20'	05/20/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
*	MW-39	5'-20'	08/26/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
*	MW-39	5'-20'	12/10/2009	—	0.98 U	—	4.9 U	0.98 U	0.2 U	0.2 U	—	0.2 U	0.98 U
*	MW-42	5'-20'	02/25/2009	—	0.99 U	—	4.9 U	0.99 U	0.2 U	0.2 U	—	0.2 U	0.99 U
*	MW-42	5'-20'	05/20/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
*	MW-42	5'-20'	08/26/2009	—	0.96 U	—	4.8 U	0.96 U	0.2 U	0.2 U	—	0.2 U	0.96 U
*	MW-42	5'-20'	12/10/2009	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
*	MW-43	30'-40'	02/25/2009	—	0.99 U	—	5 U	0.99 U	0.2 U	0.2 U	—	0.2 U	0.99 U
*	MW-43	30'-40'	05/20/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
*	MW-43	30'-40'	08/26/2009	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
*	MW-43	30'-40'	12/11/2009	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
*	MW-44	50'-60'	02/25/2009	—	1 U	—	5 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
*	MW-44	50'-60'	05/20/2009	—	0.94 U	—	4.7 U	0.94 U	0.2 U	0.2 U	—	0.2 U	0.94 U
*	MW-44	50'-60'	08/26/2009	—	0.97 U	—	4.8 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
*	MW-44	50'-60'	12/18/2009	—	0.98 U	—	4.9 U	0.98 U	0.2 U	0.2 U	—	0.2 U	0.98 U
Area 8													
*	MW-6		03/02/1990	—	—	—	—	—	—	0.5 U	0.5 U	0.5 U	—
*	MW-6	10'-20'	01/30/2008	—	1 U	—	5 U	1 U	1 U	1 U	—	1 U	1 U
*	MW-39	5'-20'	02/24/2009	—	0.98 U	—	4.9 U	0.98 U	0.2 U	0.2 U	—	0.2 U	0.98 U
*	MW-39	5'-20'	05/20/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
*	MW-39	5'-20'	08/26/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
*	MW-39	5'-20'	12/10/2009	—	0.98 U	—	4.9 U	0.98 U	0.2 U	0.2 U	—	0.2 U	0.98 U
*	MW-42	5'-20'	02/25/2009	—	0.99 U	—	4.9 U	0.99 U	0.2 U	0.2 U	—	0.2 U	0.99 U
*	MW-42	5'-20'	05/20/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U

Table B-11B: Semivolatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Phenols (micrograms per liter)					Chlorinated Benzenes (micrograms per liter)				
			CAS	4-Chloro-3-methylphenol 59-50-7	4-Methylphenol (p-Cresol) 106-44-5	4-Nitrophenol 100-02-7	Pentachlorophenol 87-86-5	Phenol 108-95-2	1,2,4-Trichlorobenzene 120-82-1	1,2-Dichlorobenzene 95-50-1	1,3-Dichlorobenzene 541-73-1	1,4-Dichlorobenzene 106-46-7	Hexachlorobenzene 118-74-1
*	MW-42	5'-20'	08/26/2009	—	0.96 U	—	4.8 U	0.96 U	0.2 U	0.2 U	—	0.2 U	0.96 U
*	MW-42	5'-20'	12/10/2009	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
*	MW-43	30'-40'	02/25/2009	—	0.99 U	—	5 U	0.99 U	0.2 U	0.2 U	—	0.2 U	0.99 U
*	MW-43	30'-40'	05/20/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
*	MW-43	30'-40'	08/26/2009	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
*	MW-43	30'-40'	12/11/2009	—	0.97 U	—	4.9 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
*	MW-44	50'-60'	02/25/2009	—	1 U	—	5 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
*	MW-44	50'-60'	05/20/2009	—	0.94 U	—	4.7 U	0.94 U	0.2 U	0.2 U	—	0.2 U	0.94 U
*	MW-44	50'-60'	08/26/2009	—	0.97 U	—	4.8 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
*	MW-44	50'-60'	12/18/2009	—	0.98 U	—	4.9 U	0.98 U	0.2 U	0.2 U	—	0.2 U	0.98 U
	MW-47	5'-20'	02/25/2009	—	0.99 U	—	5 U	0.99 U	0.2 U	0.2 U	—	0.2 U	0.99 U
	MW-47	5'-20'	05/21/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
	MW-47	5'-20'	08/27/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
	MW-47	5'-20'	12/11/2009	—	0.97 U	—	4.8 U	0.97 U	0.2 U	0.2 U	—	0.2 U	0.97 U
Area 9													
*	GP-08901	14'	09/14/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
*	GP-08901	14'	09/14/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
*	GP-08902	14'	09/14/1994	—	**1 R**	—	**5 R**	**2 R**	1 U	1 U	—	1 U	1 U
*	GP-08903	14'	09/14/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
*	GP-08904	14'	09/14/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
*	GP-08905	14'	09/13/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
	GP-09101	15'	09/12/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
	GP-09102	14'	09/08/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
	GP-09103	14'	09/08/1994	—	1 U	—	5 U	2 U	1 U	1 U	—	1 U	1 U
	MW-5		03/02/1990	—	—	—	—	—	—	12.5 U	12.5 U	12.5 U	—
	MW-5	10'-20'	01/30/2008	—	0.96 U	—	4.8 U	0.96 U	0.96 U	0.96 U	—	0.96 U	0.96 U
	MW-5	10'-20'	02/24/2009	—	0.99 U	—	4.9 U	0.99 U	0.2 U	0.2 U	—	0.2 U	0.99 U
	MW-5	10'-20'	05/21/2009	—	0.95 U	—	4.7 U	0.95 U	0.2 U	**0.22**	—	**1.4**	0.95 U
	MW-5	10'-20'	08/27/2009	—	0.98 U	—	4.9 U	0.98 U	0.2 U	0.2 U	—	**1.5**	0.98 U
	MW-5	10'-20'	12/11/2009	—	0.99 U	—	4.9 U	0.99 U	0.2 U	0.2 U	—	**1.1**	0.99 U
*	MW-23	6'-15.75'	12/29/2004	—	—	—	—	—	1 U	1 U	—	1 U	—
*	MW-23	6'-15.75'	01/31/2008	—	0.95 U	—	4.8 U	0.95 U	0.2 U	0.2 U	—	0.2 U	0.95 U
*	MW-23	6'-15.75'	02/26/2009	—	1 U	—	5 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
*	MW-23	6'-15.75'	05/21/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-23	6'-15.75'	08/27/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-23	6'-15.75'	12/11/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-24	6'-19.75'	09/17/1992	—	—	—	—	—	100 U	100 U	—	100 U	—
*	MW-24	6'-19.75'	01/31/2008	—	0.96 U	—	4.8 U	0.96 U	0.2 U	0.2 U	—	0.2 U	0.96 U
*	MW-24	6'-19.75'	02/26/2009	—	1 U	—	5.2 U	1 U	0.2 U	0.2 U	—	0.2 U	1 U
*	MW-24	6'-19.75'	05/20/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-24	6'-19.75'	08/26/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-24	6'-19.75'	12/10/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-24		08/25/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
*	MW-24		02/09/2018	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
*	MW-49	23'-27'	02/13/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-49	5'-17'	02/26/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-49	5'-17'	05/21/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-49	5'-17'	08/27/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
*	MW-49	5'-17'	12/11/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
	MW-50	23'-27'	02/24/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—

Table B-11B: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Phenols (micrograms per liter)					Chlorinated Benzenes (micrograms per liter)				
			4-Chloro-3-methylphenol	4-Methylphenol (p-Cresol)	4-Nitrophenol	Pentachlorophenol	Phenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Hexachlorobenzene
		CAS	59-50-7	106-44-5	100-02-7	87-86-5	108-95-2	120-82-1	95-50-1	541-73-1	106-46-7	118-74-1
MW-50	23'-27'	05/21/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
MW-50	23'-27'	08/27/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
MW-50	23'-27'	12/11/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
MW-50		08/16/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
MW-51	23'-27'	02/24/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
MW-51	23'-27'	05/21/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
MW-51	23'-27'	08/27/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
MW-51	23'-27'	12/11/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
MW-51		08/25/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
MW-51		02/14/2018	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
MW-52	23'-27'	02/24/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
MW-52	23'-27'	05/21/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
MW-52	23'-27'	08/27/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
MW-52	23'-27'	12/11/2009	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	—
MW-52		08/18/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
MW-52		08/18/2017	0.1 U	0.03 U	0.06 U	0.1 U	0.01 U	0.03 U	0.03 U	0.03 U	0.03 U	0.04 U
PL2-JF01AR	23.2'-27'	08/01/2007	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	**2.1**	1 U
PL2-JF01AR	23'-27'	01/30/2008	—	—	—	4.8 U	0.96 U	0.96 U	0.96 U	—	**2.9**	0.96 U
PL2-JF01AR	23'-27'	02/04/2008	—	—	—	5 U	1 U	1 U	1 U	—	**3.6**	1 U
PL2-JF01B	40'-50'	08/01/2007	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01B	40'-50'	01/30/2008	—	—	—	4.8 U	0.96 U	0.96 U	0.96 U	—	0.96 U	0.96 U
PL2-JF01C	74'-78.5'	08/01/2007	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01C	74'-78'	01/30/2008	—	—	—	4.7 U	0.94 U	0.94 U	0.94 U	—	0.94 U	0.94 U
PL2-JF02A	5.5'-23'	08/01/2007	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF02A	8'-22.75'	01/30/2008	—	—	—	4.9 U	0.97 U	0.97 U	0.97 U	—	0.97 U	0.97 U
PL2-JF02A	8'-22.75'	02/04/2008	—	—	—	5 U	1 U	1 U	1 U	—	1 U	1 U
PL2-JF04A	8'-18'	01/30/2008	—	—	—	4.7 U	0.95 U	0.95 U	0.95 U	—	0.95 U	0.95 U
T2B2	0-15'	01/13/2011	—	—	—	—	—	0.5 U	0.2 U	0.2 U	0.2 U	—
T2B3	0-15'	01/13/2011	—	—	—	—	—	0.5 U	0.2 U	0.2 U	0.2 U	—
T2B3	0-15'	01/13/2011	—	—	—	—	—	0.5 U	0.2 U	0.2 U	0.2 U	—
T2B4	0-15'	01/13/2011	—	—	—	—	—	0.5 U	0.2 U	0.2 U	0.2 U	—
T3B2	0-15'	01/14/2011	—	—	—	—	—	0.5 U	0.2 U	0.2 U	0.2 U	—
T3B3	0-15'	01/13/2011	—	—	—	—	—	0.5 U	0.2 U	0.2 U	0.2 U	—
T3B4	0-24'	01/13/2011	—	—	—	—	—	0.5 U	0.2 U	0.2 U	0.2 U	—

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-11C: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Phthalates (micrograms per liter)						Other SVOCs (micrograms per liter)			
		CAS	Bis(2-ethylhexyl) phthalate 117-81-7	Butyl benzyl phthalate 85-68-7	Dibutyl phthalate 84-74-2	Diethyl phthalate 84-66-2	Dimethyl phthalate 131-11-3	Di-n-octyl phthalate 117-84-0	2,4-Dinitrotoluene 121-14-2	2,6-Dinitrotoluene 606-20-2	2-Chloronaphthalene 91-58-7	2-Nitroaniline 88-74-4
Area 1												
* GP-08901	14'	09/14/1994	**12 J**	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* GP-08901	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* GP-08902	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* GP-08903	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* GP-08904	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* GP-08905	14'	09/13/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-9	5'-20'	01/31/2008	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
* MW-23	6'-15.75'	01/31/2008	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
* MW-23	6'-15.75'	02/26/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* MW-24	6'-19.75'	01/31/2008	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	—	—	—	—
* MW-24	6'-19.75'	02/26/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* MW-24		08/25/2017	**0.2**	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
* MW-24		02/09/2018	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-25	6'-19.75'	01/31/2008	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
MW-25	6'-19.75'	02/26/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-30	5'-19.5'	01/31/2008	0.97 U	0.97 U	0.97 U	**1**	0.97 U	0.97 U	—	—	—	—
MW-30		08/18/2017	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-48	5'-17'	02/26/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
MW-48	5'-17'	05/20/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
MW-48	5'-17'	08/26/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
MW-48	5'-17'	12/10/2009	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	—	—	—	—
Area 2												
MW-7	10'-20'	02/01/2008	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
MW-7	10'-20'	02/25/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-14	5'-20'	02/01/2008	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
MW-14	5'-20'	02/27/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-14		08/25/2017	**0.3**	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-14		02/12/2018	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	0.4 U	2 U	2.1 U	0.5 U	2 U
MW-15	5'-20'	01/31/2008	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
MW-32	5'-20'	02/01/2008	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
MW-32	5'-20'	02/27/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-32		08/24/2017	**0.2**	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-32		02/07/2018	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-34	5'-15'	02/01/2008	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
MW-36		02/01/2008	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
MW-36		02/27/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
MW-37	10'-25'	02/25/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-37	10'-25'	05/20/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
MW-37	10'-25'	08/27/2009	0.97 U	0.97 U	0.97 U	**1.1**	0.97 U	0.97 U	—	—	—	—
MW-37	10'-25'	12/11/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
MW-37		08/17/2017	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
Area 3												
MW-3	4.5'-19.75'	01/31/2008	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
MW-4	4.75'-20'	01/31/2008	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
MW-8	5'-20'	01/31/2008	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
MW-8	5'-20'	02/26/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—

Table B-11C: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Phthalates (micrograms per liter)						Other SVOCs (micrograms per liter)			
		CAS	Bis(2-ethylhexyl) phthalate 117-81-7	Butyl benzyl phthalate 85-68-7	Dibutyl phthalate 84-74-2	Diethyl phthalate 84-66-2	Dimethyl phthalate 131-11-3	Di-n-octyl phthalate 117-84-0	2,4-Dinitrotoluene 121-14-2	2,6-Dinitrotoluene 606-20-2	2-Chloronaphthalene 91-58-7	2-Nitroaniline 88-74-4
Area 4												
MW-10	5'-20'	02/01/2008	**20**	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
MW-11	5'-20'	01/31/2008	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
MW-11	5'-20'	02/25/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
Area 5												
MW-40	10'-25'	02/27/2009	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	—	—	—	—
MW-40	10'-25'	05/20/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
MW-40	10'-25'	08/26/2009	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
MW-40	10'-25'	12/18/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
MW-40		02/08/2018	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-41	30'-40'	02/27/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-41	30'-40'	05/20/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
MW-41	30'-40'	08/26/2009	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
MW-41	30'-40'	12/18/2009	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
MW-41		08/21/2017	**0.2**	0.07 U	0.05 U	**0.1 J**	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-41		02/08/2018	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
Area 6												
* MW-6	10'-20'	01/30/2008	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-31	5'-19'	01/30/2008	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
MW-31	5'-19'	02/26/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-31		08/16/2017	**0.2**	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-31		02/06/2018	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-45	30'-40'	02/26/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-45	30'-40'	05/21/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
MW-45	30'-40'	08/27/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-45	30'-40'	12/11/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
MW-46	5'-20'	02/26/2009	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
MW-46	5'-20'	05/21/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
MW-46	5'-20'	08/27/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
MW-46	5'-20'	12/11/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
MW-46		08/24/2017	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-46		08/24/2017	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-46		02/06/2018	0.2 U	0.07 U	0.05 U	0.2 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U

Table B-11C: Semivolatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Phthalates (micrograms per liter)						Other SVOCs (micrograms per liter)			
			CAS	Bis(2-ethylhexyl) phthalate 117-81-7	Butyl benzyl phthalate 85-68-7	Dibutyl phthalate 84-74-2	Diethyl phthalate 84-66-2	Dimethyl phthalate 131-11-3	Di-n-octyl phthalate 117-84-0	2,4-Dinitrotoluene 121-14-2	2,6-Dinitrotoluene 606-20-2	2-Chloronaphthalene 91-58-7	2-Nitroaniline 88-74-4
Area 7													
	MW-38	10'-25'	02/24/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
	MW-38	10'-25'	05/20/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
	MW-38	10'-25'	08/25/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
	MW-38	10'-25'	12/10/2009	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	—	—	—	—
*	MW-39	5'-20'	02/24/2009	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
*	MW-39	5'-20'	05/20/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
*	MW-39	5'-20'	08/26/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
*	MW-39	5'-20'	12/10/2009	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
*	MW-42	5'-20'	02/25/2009	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
*	MW-42	5'-20'	05/20/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
*	MW-42	5'-20'	08/26/2009	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	—	—	—	—
*	MW-42	5'-20'	12/10/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
*	MW-43	30'-40'	02/25/2009	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
*	MW-43	30'-40'	05/20/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
*	MW-43	30'-40'	08/26/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
*	MW-43	30'-40'	12/11/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
*	MW-44	50'-60'	02/25/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
*	MW-44	50'-60'	05/20/2009	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	—	—	—	—
*	MW-44	50'-60'	08/26/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
*	MW-44	50'-60'	12/18/2009	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
Area 8													
*	MW-6	10'-20'	01/30/2008	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
*	MW-39	5'-20'	02/24/2009	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
*	MW-39	5'-20'	05/20/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
*	MW-39	5'-20'	08/26/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
*	MW-39	5'-20'	12/10/2009	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
*	MW-42	5'-20'	02/25/2009	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
*	MW-42	5'-20'	05/20/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
*	MW-42	5'-20'	08/26/2009	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	—	—	—	—
*	MW-42	5'-20'	12/10/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
*	MW-43	30'-40'	02/25/2009	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
*	MW-43	30'-40'	05/20/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
*	MW-43	30'-40'	08/26/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
*	MW-43	30'-40'	12/11/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
*	MW-44	50'-60'	02/25/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
*	MW-44	50'-60'	05/20/2009	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	—	—	—	—
*	MW-44	50'-60'	08/26/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
*	MW-44	50'-60'	12/18/2009	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
	MW-47	5'-20'	02/25/2009	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
	MW-47	5'-20'	05/21/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
	MW-47	5'-20'	08/27/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
	MW-47	5'-20'	12/11/2009	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—

Table B-11C: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Phthalates (micrograms per liter)						Other SVOCs (micrograms per liter)			
		CAS	Bis(2-ethylhexyl) phthalate 117-81-7	Butyl benzyl phthalate 85-68-7	Dibutyl phthalate 84-74-2	Diethyl phthalate 84-66-2	Dimethyl phthalate 131-11-3	Di-n-octyl phthalate 117-84-0	2,4-Dinitrotoluene 121-14-2	2,6-Dinitrotoluene 606-20-2	2-Chloronaphthalene 91-58-7	2-Nitroaniline 88-74-4
Area 9												
* GP-08901	14'	09/14/1994	**12 J**	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* GP-08901	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* GP-08902	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* GP-08903	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* GP-08904	14'	09/14/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* GP-08905	14'	09/13/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
GP-09101	15'	09/12/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
GP-09102	14'	09/08/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
GP-09103	14'	09/08/1994	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
MW-5	10'-20'	01/30/2008	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	—	—	—	—
MW-5	10'-20'	02/24/2009	**35**	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
MW-5	10'-20'	05/21/2009	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
MW-5	10'-20'	08/27/2009	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	—	—	—	—
MW-5	10'-20'	12/11/2009	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	—	—	—	—
* MW-23	6'-15.75'	01/31/2008	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—
* MW-23	6'-15.75'	02/26/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* MW-24	6'-19.75'	01/31/2008	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	—	—	—	—
* MW-24	6'-19.75'	02/26/2009	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
* MW-24		08/25/2017	**0.2**	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
* MW-24		02/09/2018	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-50		08/16/2017	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-51		08/25/2017	**0.2**	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-51		02/14/2018	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-52		08/18/2017	0.2 U	0.07 U	0.05 U	0.06 U	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
MW-52		08/18/2017	0.2 U	0.07 U	0.05 U	**1.4 J**	0.04 U	0.05 U	0.1 U	0.2 U	0.03 U	0.2 U
PL2-JF01AR	23.2'-27'	08/01/2007	1.1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
PL2-JF01AR	23'-27'	01/30/2008	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	—	—	—	—
PL2-JF01AR	23'-27'	02/04/2008	1 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
PL2-JF01B	40'-50'	08/01/2007	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
PL2-JF01B	40'-50'	01/30/2008	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	—	—	—	—
PL2-JF01C	74'-78.5'	08/01/2007	2.3 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
PL2-JF01C	74'-78'	01/30/2008	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	—	—	—	—
PL2-JF02A	5.5'-23'	08/01/2007	1.6 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
PL2-JF02A	8'-22.75'	01/30/2008	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	—	—	—	—
PL2-JF02A	8'-22.75'	02/04/2008	1.8 U	1 U	1 U	1 U	1 U	1 U	—	—	—	—
PL2-JF04A	8'-18'	01/30/2008	**29**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	—	—	—	—

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number; SVOC = semivolatile organic compound

Table B-11D: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Other SVOCs (micrograms per liter)										
			3,3'-Dichlorobenzidine	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Nitroaniline	Benzoic acid	Benzyl alcohol	Bis(2-chloro-1-methylethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-chloroethyl) ether
		CAS	91-94-1	99-09-2	101-55-3	106-47-8	7005-72-3	100-01-6	65-85-0	100-51-6	108-60-1	111-91-1	111-44-4
Area 1													
* GP-08901	14'	09/14/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
* GP-08902	14'	09/14/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
* GP-08903	14'	09/14/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
* GP-08904	14'	09/14/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
* GP-08905	14'	09/13/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
MW-9	5'-20'	01/31/2008	—	—	—	—	—	—	—	0.98 U	—	—	—
* MW-23	6'-15.75'	01/31/2008	—	—	—	—	—	—	—	0.95 U	—	—	—
* MW-23	6'-15.75'	02/26/2009	—	—	—	—	—	—	—	1 U	—	—	—
* MW-24	6'-19.75'	01/31/2008	—	—	—	—	—	—	—	0.96 U	—	—	—
* MW-24	6'-19.75'	02/26/2009	—	—	—	—	—	—	—	1 U	—	—	—
* MW-24		08/25/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
* MW-24		02/09/2018	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-25	6'-19.75'	01/31/2008	—	—	—	—	—	—	—	0.97 U	—	—	—
MW-25	6'-19.75'	02/26/2009	—	—	—	—	—	—	—	1 U	—	—	—
MW-30	5'-19.5'	01/31/2008	—	—	—	—	—	—	—	0.97 U	—	—	—
MW-30		08/18/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-48	5'-17'	02/26/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
MW-48	5'-17'	05/20/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
MW-48	5'-17'	08/26/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
MW-48	5'-17'	12/10/2009	—	—	—	—	—	—	—	0.96 U	—	—	—
Area 2													
MW-7	10'-20'	02/01/2008	—	—	—	—	—	—	—	0.99 U	—	—	—
MW-7	10'-20'	02/25/2009	—	—	—	—	—	—	—	1 U	—	—	—
MW-14	5'-20'	02/01/2008	—	—	—	—	—	—	—	0.97 U	—	—	—
MW-14	5'-20'	02/27/2009	—	—	—	—	—	—	—	1 U	—	—	—
MW-14		08/25/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-14		02/12/2018	1.6 U	2.2 U	0.3 U	1.9 U	0.4 U	1.9 U	3.4 U	1 U	0.5 U	0.6 U	0.4 U
MW-15	5'-20'	01/31/2008	—	—	—	—	—	—	—	0.99 U	—	—	—
MW-32	5'-20'	02/01/2008	—	—	—	—	—	—	—	0.98 U	—	—	—
MW-32	5'-20'	02/27/2009	—	—	—	—	—	—	—	1 U	—	—	—
MW-32		08/24/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-32		02/07/2018	**0.3 R**	0.2 U	0.02 U	**0.04 R**	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-34	5'-15'	02/01/2008	—	—	—	—	—	—	—	0.95 U	—	—	—
MW-36		02/01/2008	—	—	—	—	—	—	—	0.98 U	—	—	—
MW-36		02/27/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
MW-37	10'-25'	02/25/2009	—	—	—	—	—	—	—	1 U	—	—	—
MW-37	10'-25'	05/20/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
MW-37	10'-25'	08/27/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
MW-37	10'-25'	12/11/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
MW-37		08/17/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
Area 3													
MW-3	4.5'-19.75'	01/31/2008	—	—	—	—	—	—	—	0.98 U	—	—	—
MW-4	4.75'-20'	01/31/2008	—	—	—	—	—	—	—	0.99 U	—	—	—
MW-8	5'-20'	01/31/2008	—	—	—	—	—	—	—	0.99 U	—	—	—
MW-8	5'-20'	02/26/2009	—	—	—	—	—	—	—	1 U	—	—	—

Table B-11D: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Other SVOCs (micrograms per liter)										
			3,3'-Dichlorobenzidine	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Nitroaniline	Benzoic acid	Benzyl alcohol	Bis(2-chloro-1-methylethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-chloroethyl) ether
		CAS	91-94-1	99-09-2	101-55-3	106-47-8	7005-72-3	100-01-6	65-85-0	100-51-6	108-60-1	111-91-1	111-44-4
Area 4													
MW-10	5'-20'	02/01/2008	—	—	—	—	—	—	—	0.98 U	—	—	—
MW-11	5'-20'	01/31/2008	—	—	—	—	—	—	—	0.98 U	—	—	—
MW-11	5'-20'	02/25/2009	—	—	—	—	—	—	—	1 U	—	—	—
Area 5													
MW-40	10'-25'	02/27/2009	—	—	—	—	—	—	—	0.94 U	—	—	—
MW-40	10'-25'	05/20/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
MW-40	10'-25'	08/26/2009	—	—	—	—	—	—	—	0.98 U	—	—	—
MW-40	10'-25'	12/18/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
MW-40		02/08/2018	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-41	30'-40'	02/27/2009	—	—	—	—	—	—	—	1 U	—	—	—
MW-41	30'-40'	05/20/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
MW-41	30'-40'	08/26/2009	—	—	—	—	—	—	—	0.99 U	—	—	—
MW-41	30'-40'	12/18/2009	—	—	—	—	—	—	—	0.99 U	—	—	—
MW-41		08/21/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-41		02/08/2018	**0.3 R**	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
Area 6													
* MW-6	10'-20'	01/30/2008	—	—	—	—	—	—	—	1 U	—	—	—
MW-31	5'-19'	01/30/2008	—	—	—	—	—	—	—	0.98 U	—	—	—
MW-31	5'-19'	02/26/2009	—	—	—	—	—	—	—	1 U	—	—	—
MW-31		08/16/2017	**0.3 R**	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-31		02/06/2018	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-45	30'-40'	02/26/2009	—	—	—	—	—	—	—	1 U	—	—	—
MW-45	30'-40'	05/21/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
MW-45	30'-40'	08/27/2009	—	—	—	—	—	—	—	1 U	—	—	—
MW-45	30'-40'	12/11/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
MW-46	5'-20'	02/26/2009	—	—	—	—	—	—	—	0.99 U	—	—	—
MW-46	5'-20'	05/21/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
MW-46	5'-20'	08/27/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
MW-46	5'-20'	12/11/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
MW-46		08/24/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-46		08/24/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-46		02/06/2018	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U

Table B-11D: Semivolatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Other SVOCs (micrograms per liter)										
				3,3'-Dichlorobenzidine	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Nitroaniline	Benzoic acid	Benzyl alcohol	Bis(2-chloro-1-methylethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-chloroethyl) ether
			CAS	91-94-1	99-09-2	101-55-3	106-47-8	7005-72-3	100-01-6	65-85-0	100-51-6	108-60-1	111-91-1	111-44-4
Area 7														
	MW-38	10'-25'	02/24/2009	—	—	—	—	—	—	—	1 U	—	—	—
	MW-38	10'-25'	05/20/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
	MW-38	10'-25'	08/25/2009	—	—	—	—	—	—	—	1 U	—	—	—
	MW-38	10'-25'	12/10/2009	—	—	—	—	—	—	—	0.96 U	—	—	—
*	MW-39	5'-20'	02/24/2009	—	—	—	—	—	—	—	0.98 U	—	—	—
*	MW-39	5'-20'	05/20/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
*	MW-39	5'-20'	08/26/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
*	MW-39	5'-20'	12/10/2009	—	—	—	—	—	—	—	0.98 U	—	—	—
*	MW-42	5'-20'	02/25/2009	—	—	—	—	—	—	—	0.99 U	—	—	—
*	MW-42	5'-20'	05/20/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
*	MW-42	5'-20'	08/26/2009	—	—	—	—	—	—	—	0.96 U	—	—	—
*	MW-42	5'-20'	12/10/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
*	MW-43	30'-40'	02/25/2009	—	—	—	—	—	—	—	0.99 U	—	—	—
*	MW-43	30'-40'	05/20/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
*	MW-43	30'-40'	08/26/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
*	MW-43	30'-40'	12/11/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
*	MW-44	50'-60'	02/25/2009	—	—	—	—	—	—	—	1 U	—	—	—
*	MW-44	50'-60'	05/20/2009	—	—	—	—	—	—	—	0.94 U	—	—	—
*	MW-44	50'-60'	08/26/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
*	MW-44	50'-60'	12/18/2009	—	—	—	—	—	—	—	0.98 U	—	—	—
Area 8														
*	MW-6	10'-20'	01/30/2008	—	—	—	—	—	—	—	1 U	—	—	—
*	MW-39	5'-20'	02/24/2009	—	—	—	—	—	—	—	0.98 U	—	—	—
*	MW-39	5'-20'	05/20/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
*	MW-39	5'-20'	08/26/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
*	MW-39	5'-20'	12/10/2009	—	—	—	—	—	—	—	0.98 U	—	—	—
*	MW-42	5'-20'	02/25/2009	—	—	—	—	—	—	—	0.99 U	—	—	—
*	MW-42	5'-20'	05/20/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
*	MW-42	5'-20'	08/26/2009	—	—	—	—	—	—	—	0.96 U	—	—	—
*	MW-42	5'-20'	12/10/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
*	MW-43	30'-40'	02/25/2009	—	—	—	—	—	—	—	0.99 U	—	—	—
*	MW-43	30'-40'	05/20/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
*	MW-43	30'-40'	08/26/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
*	MW-43	30'-40'	12/11/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
*	MW-44	50'-60'	02/25/2009	—	—	—	—	—	—	—	1 U	—	—	—
*	MW-44	50'-60'	05/20/2009	—	—	—	—	—	—	—	0.94 U	—	—	—
*	MW-44	50'-60'	08/26/2009	—	—	—	—	—	—	—	0.97 U	—	—	—
*	MW-44	50'-60'	12/18/2009	—	—	—	—	—	—	—	0.98 U	—	—	—
	MW-47	5'-20'	02/25/2009	—	—	—	—	—	—	—	0.99 U	—	—	—
	MW-47	5'-20'	05/21/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
	MW-47	5'-20'	08/27/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
	MW-47	5'-20'	12/11/2009	—	—	—	—	—	—	—	0.97 U	—	—	—

Table B-11D: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Other SVOCs (micrograms per liter)										
			3,3'-Dichlorobenzidine	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Nitroaniline	Benzoic acid	Benzyl alcohol	Bis(2-chloro-1-methylethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-chloroethyl) ether
		CAS	91-94-1	99-09-2	101-55-3	106-47-8	7005-72-3	100-01-6	65-85-0	100-51-6	108-60-1	111-91-1	111-44-4
Area 9													
* GP-08901	14'	09/14/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
* GP-08902	14'	09/14/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
* GP-08903	14'	09/14/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
* GP-08904	14'	09/14/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
* GP-08905	14'	09/13/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
GP-09101	15'	09/12/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
GP-09102	14'	09/08/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
GP-09103	14'	09/08/1994	—	—	—	—	—	—	10 U	5 U	—	—	—
MW-5	10'-20'	01/30/2008	—	—	—	—	—	—	—	0.96 U	—	—	—
MW-5	10'-20'	02/24/2009	—	—	—	—	—	—	—	0.99 U	—	—	—
MW-5	10'-20'	05/21/2009	—	—	—	—	—	—	—	0.95 U	—	—	—
MW-5	10'-20'	08/27/2009	—	—	—	—	—	—	—	0.98 U	—	—	—
MW-5	10'-20'	12/11/2009	—	—	—	—	—	—	—	0.99 U	—	—	—
* MW-23	6'-15.75'	01/31/2008	—	—	—	—	—	—	—	0.95 U	—	—	—
* MW-23	6'-15.75'	02/26/2009	—	—	—	—	—	—	—	1 U	—	—	—
* MW-24	6'-19.75'	01/31/2008	—	—	—	—	—	—	—	0.96 U	—	—	—
* MW-24	6'-19.75'	02/26/2009	—	—	—	—	—	—	—	1 U	—	—	—
* MW-24		08/25/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
* MW-24		02/09/2018	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-50		08/16/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-51		08/25/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-51		02/14/2018	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-52		08/18/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
MW-52		08/18/2017	0.3 U	0.2 U	0.02 U	0.04 U	0.02 U	0.2 U	0.1 U	0.02 U	0.03 U	0.03 U	0.03 U
PL2-JF01AR	23.2'-27'	08/01/2007	5 U	5 U	1 U	5 U	1 U	5 U	10 U	5 U	1 U	1 U	1 U
PL2-JF01AR	23'-27'	01/30/2008	—	—	—	—	—	—	—	0.96 U	—	—	—
PL2-JF01AR	23'-27'	02/04/2008	—	—	—	—	—	—	—	5 U	—	—	—
PL2-JF01B	40'-50'	08/01/2007	5 U	5 U	1 U	5 U	1 U	5 U	10 U	5 U	1 U	1 U	1 U
PL2-JF01B	40'-50'	01/30/2008	—	—	—	—	—	—	—	0.96 U	—	—	—
PL2-JF01C	74'-78.5'	08/01/2007	5 U	5 U	1 U	5 U	1 U	5 U	10 U	5 U	1 U	1 U	1 U
PL2-JF01C	74'-78'	01/30/2008	—	—	—	—	—	—	—	0.94 U	—	—	—
PL2-JF02A	5.5'-23'	08/01/2007	5 U	5 U	1 U	5 U	1 U	5 U	10 U	5 U	1 U	1 U	1 U
PL2-JF02A	8'-22.75'	01/30/2008	—	—	—	—	—	—	—	0.97 U	—	—	—
PL2-JF02A	8'-22.75'	02/04/2008	—	—	—	—	—	—	—	5 U	—	—	—
PL2-JF04A	8'-18'	01/30/2008	—	—	—	—	—	—	—	0.95 U	—	—	—

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number; SVOC = semivolatile organic compound

Table B-11E: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Other SVOCs (micrograms per liter)								
			Carbazole	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	n-Nitrosodimethylamine	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine
		CAS	86-74-8	87-68-3	77-47-4	67-72-1	78-59-1	98-95-3	62-75-9	621-64-7	86-30-6
Area 1											
* GP-08901	14'	09/14/1994	—	2 U	—	—	—	—	—	—	1 U
* GP-08902	14'	09/14/1994	—	2 U	—	—	—	—	—	—	1 U
* GP-08903	14'	09/14/1994	—	2 U	—	—	—	—	—	—	1 U
* GP-08904	14'	09/14/1994	—	2 U	—	—	—	—	—	—	1 U
* GP-08905	14'	09/13/1994	—	2 U	—	—	—	—	—	—	1 U
MW-9	5'-20'	01/31/2008	—	0.98 U	—	—	—	—	—	—	0.98 U
* MW-23	6'-15.75'	12/29/2004	—	1 U	—	—	—	—	—	—	—
* MW-23	6'-15.75'	01/31/2008	—	0.2 U	—	—	—	—	—	—	0.95 U
* MW-23	6'-15.75'	02/26/2009	—	0.2 U	—	—	—	—	—	—	1 U
* MW-23	6'-15.75'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—
* MW-23	6'-15.75'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—
* MW-23	6'-15.75'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—
* MW-24	6'-19.75'	01/31/2008	—	0.2 U	—	—	—	—	—	—	0.96 U
* MW-24	6'-19.75'	02/26/2009	—	0.2 U	—	—	—	—	—	—	1 U
* MW-24	6'-19.75'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—
* MW-24	6'-19.75'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—
* MW-24		08/25/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
* MW-24		02/09/2018	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
MW-25	6'-19.75'	12/29/2004	—	1 U	—	—	—	—	—	—	—
MW-25	6'-19.75'	01/31/2008	—	0.2 U	—	—	—	—	—	—	0.97 U
MW-25	6'-19.75'	02/26/2009	—	0.2 U	—	—	—	—	—	—	1 U
MW-25	6'-19.75'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—
MW-25	6'-19.75'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—
MW-25	6'-19.75'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—
MW-30	5'-19.5'	01/31/2008	—	0.97 U	—	—	—	—	—	—	0.97 U
MW-30		08/18/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
MW-48		02/12/2009	—	0.2 U	—	—	—	—	—	—	—
MW-48	5'-17'	02/26/2009	—	0.2 U	—	—	—	—	—	—	0.95 U
MW-48	5'-17'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
MW-48	5'-17'	08/26/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
MW-48	5'-17'	12/10/2009	—	0.2 U	—	—	—	—	—	—	9.6 U
* MW-49	5'-17'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—
* MW-49	5'-17'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—
* MW-49	5'-17'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—
* MW-49	5'-17'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—
Area 2											
MW-7	10'-20'	02/01/2008	—	0.99 U	—	—	—	—	—	—	0.99 U
MW-7	10'-20'	02/25/2009	—	0.2 U	—	—	—	—	—	—	1 U
MW-14	5'-20'	02/01/2008	—	0.97 U	—	—	—	—	—	—	0.97 U
MW-14	5'-20'	02/27/2009	—	0.2 U	—	—	—	—	—	—	1 U
MW-14		08/25/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
MW-14		02/12/2018	0.6 U	0.1 U	2.5 U	0.3 U	0.5 U	0.4 U	1.5 U	0.2 U	0.4 U
MW-15	5'-20'	01/31/2008	—	0.99 U	—	—	—	—	—	—	0.99 U
MW-32	5'-20'	02/01/2008	—	0.98 U	—	—	—	—	—	—	0.98 U
MW-32	5'-20'	02/27/2009	—	0.2 U	—	—	—	—	—	—	1 U
MW-32		08/24/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
MW-32		02/07/2018	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
MW-34	5'-15'	02/01/2008	—	0.95 U	—	—	—	—	—	—	0.95 U

Table B-11E: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Other SVOCs (micrograms per liter)								
			Carbazole	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	n-Nitrosodimethylamine	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine
		CAS	86-74-8	87-68-3	77-47-4	67-72-1	78-59-1	98-95-3	62-75-9	621-64-7	86-30-6
MW-36		02/01/2008	—	0.98 U	—	—	—	—	—	—	0.98 U
MW-36		02/27/2009	—	0.2 U	—	—	—	—	—	—	0.97 U
MW-37	10'-25'	02/25/2009	—	0.2 U	—	—	—	—	—	—	1 U
MW-37	10'-25'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
MW-37	10'-25'	08/27/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
MW-37	10'-25'	12/11/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
MW-37		08/17/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
Area 3											
MW-3	4.5'-19.75'	01/31/2008	—	0.99 U	—	—	—	—	—	—	0.99 U
MW-4	4.75'-20'	01/31/2008	—	0.99 U	—	—	—	—	—	—	0.99 U
MW-8	5'-20'	01/31/2008	—	0.99 U	—	—	—	—	—	—	0.99 U
MW-8	5'-20'	02/26/2009	—	0.2 U	—	—	—	—	—	—	1 U
Area 4											
MW-10	5'-20'	02/01/2008	—	0.98 U	—	—	—	—	—	—	0.98 U
MW-11	5'-20'	01/31/2008	—	0.98 U	—	—	—	—	—	—	0.98 U
MW-11	5'-20'	02/25/2009	—	0.2 U	—	—	—	—	—	—	1 U
Area 5											
MW-40	10'-25'	02/27/2009	—	0.2 U	—	—	—	—	—	—	0.94 U
MW-40	10'-25'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
MW-40	10'-25'	08/26/2009	—	0.2 U	—	—	—	—	—	—	9.8 U
MW-40	10'-25'	12/18/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
MW-40		02/08/2018	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
MW-41	30'-40'	02/27/2009	—	0.2 U	—	—	—	—	—	—	1 U
MW-41	30'-40'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
MW-41	30'-40'	08/26/2009	—	0.2 U	—	—	—	—	—	—	9.9 U
MW-41	30'-40'	12/18/2009	—	0.2 U	—	—	—	—	—	—	9.9 U
MW-41		08/21/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
MW-41		02/08/2018	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
Area 6											
* MW-6	10'-20'	01/30/2008	—	1 U	—	—	—	—	—	—	1 U
MW-31	5'-19'	12/29/2004	—	1 U	—	—	—	—	—	—	—
MW-31	5'-19'	01/30/2008	—	0.98 U	—	—	—	—	—	—	0.98 U
MW-31	5'-19'	02/26/2009	—	0.2 U	—	—	—	—	—	—	1 U
MW-31		08/16/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
MW-31		02/06/2018	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
MW-45	30'-40'	02/26/2009	—	0.2 U	—	—	—	—	—	—	1 U
MW-45	30'-40'	05/21/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
MW-45	30'-40'	08/27/2009	—	0.2 U	—	—	—	—	—	—	10 U
MW-45	30'-40'	12/11/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
MW-46	5'-20'	02/26/2009	—	0.2 U	—	—	—	—	—	—	0.99 U
MW-46	5'-20'	05/21/2009	—	0.4 U	—	—	—	—	—	—	9.5 U
MW-46	5'-20'	08/27/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
MW-46	5'-20'	12/11/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
MW-46		08/24/2017	**0.1 J**	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
MW-46		08/24/2017	**0.1 J**	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
MW-46		02/06/2018	**0.1 J**	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U

Table B-11E: Semivolatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Other SVOCs (micrograms per liter)								
				Carbazole	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	n-Nitrosodimethylamine	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine
			CAS	86-74-8	87-68-3	77-47-4	67-72-1	78-59-1	98-95-3	62-75-9	621-64-7	86-30-6
Area 7												
	MW-38	10'-25'	02/24/2009	—	0.2 U	—	—	—	—	—	—	1 U
	MW-38	10'-25'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
	MW-38	10'-25'	08/25/2009	—	0.2 U	—	—	—	—	—	—	10 U
	MW-38	10'-25'	12/10/2009	—	0.2 U	—	—	—	—	—	—	9.6 U
*	MW-39	5'-20'	02/24/2009	—	0.2 U	—	—	—	—	—	—	0.98 U
*	MW-39	5'-20'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
*	MW-39	5'-20'	08/26/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
*	MW-39	5'-20'	12/10/2009	—	0.2 U	—	—	—	—	—	—	9.8 U
*	MW-42	5'-20'	02/25/2009	—	0.2 U	—	—	—	—	—	—	0.99 U
*	MW-42	5'-20'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
*	MW-42	5'-20'	08/26/2009	—	0.2 U	—	—	—	—	—	—	9.6 U
*	MW-42	5'-20'	12/10/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
*	MW-43	30'-40'	02/25/2009	—	0.2 U	—	—	—	—	—	—	0.99 U
*	MW-43	30'-40'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
*	MW-43	30'-40'	08/26/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
*	MW-43	30'-40'	12/11/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
*	MW-44	50'-60'	02/25/2009	—	0.2 U	—	—	—	—	—	—	1 U
*	MW-44	50'-60'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.4 U
*	MW-44	50'-60'	08/26/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
*	MW-44	50'-60'	12/18/2009	—	0.2 U	—	—	—	—	—	—	9.8 U
Area 8												
*	MW-6	10'-20'	01/30/2008	—	1 U	—	—	—	—	—	—	1 U
*	MW-39	5'-20'	02/24/2009	—	0.2 U	—	—	—	—	—	—	0.98 U
*	MW-39	5'-20'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
*	MW-39	5'-20'	08/26/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
*	MW-39	5'-20'	12/10/2009	—	0.2 U	—	—	—	—	—	—	9.8 U
*	MW-42	5'-20'	02/25/2009	—	0.2 U	—	—	—	—	—	—	0.99 U
*	MW-42	5'-20'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
*	MW-42	5'-20'	08/26/2009	—	0.2 U	—	—	—	—	—	—	9.6 U
*	MW-42	5'-20'	12/10/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
*	MW-43	30'-40'	02/25/2009	—	0.2 U	—	—	—	—	—	—	0.99 U
*	MW-43	30'-40'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
*	MW-43	30'-40'	08/26/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
*	MW-43	30'-40'	12/11/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
*	MW-44	50'-60'	02/25/2009	—	0.2 U	—	—	—	—	—	—	1 U
*	MW-44	50'-60'	05/20/2009	—	0.2 U	—	—	—	—	—	—	9.4 U
*	MW-44	50'-60'	08/26/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
*	MW-44	50'-60'	12/18/2009	—	0.2 U	—	—	—	—	—	—	9.8 U
	MW-47	5'-20'	02/25/2009	—	0.2 U	—	—	—	—	—	—	0.99 U
	MW-47	5'-20'	05/21/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
	MW-47	5'-20'	08/27/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
	MW-47	5'-20'	12/11/2009	—	0.2 U	—	—	—	—	—	—	9.7 U
Area 9												
*	GP-08901	14'	09/14/1994	—	2 U	—	—	—	—	—	—	1 U
*	GP-08902	14'	09/14/1994	—	2 U	—	—	—	—	—	—	1 U
*	GP-08903	14'	09/14/1994	—	2 U	—	—	—	—	—	—	1 U
*	GP-08904	14'	09/14/1994	—	2 U	—	—	—	—	—	—	1 U

Table B-11E: Semivolatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Other SVOCs (micrograms per liter)								
				Carbazole	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	n-Nitrosodimethylamine	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine
			CAS	86-74-8	87-68-3	77-47-4	67-72-1	78-59-1	98-95-3	62-75-9	621-64-7	86-30-6
*	GP-08905	14'	09/13/1994	—	2 U	—	—	—	—	—	—	1 U
	GP-09101	15'	09/12/1994	—	2 U	—	—	—	—	—	—	1 U
	GP-09102	14'	09/08/1994	—	2 U	—	—	—	—	—	—	1 U
	GP-09103	14'	09/08/1994	—	2 U	—	—	—	—	—	—	1 U
	MW-5	10'-20'	01/30/2008	—	0.96 U	—	—	—	—	—	—	0.96 U
	MW-5	10'-20'	02/24/2009	—	0.2 U	—	—	—	—	—	—	0.99 U
	MW-5	10'-20'	05/21/2009	—	0.2 U	—	—	—	—	—	—	9.5 U
	MW-5	10'-20'	08/27/2009	—	0.2 U	—	—	—	—	—	—	9.8 U
	MW-5	10'-20'	12/11/2009	—	0.2 U	—	—	—	—	—	—	9.9 U
*	MW-23	6'-15.75'	12/29/2004	—	1 U	—	—	—	—	—	—	—
*	MW-23	6'-15.75'	01/31/2008	—	0.2 U	—	—	—	—	—	—	0.95 U
*	MW-23	6'-15.75'	02/26/2009	—	0.2 U	—	—	—	—	—	—	1 U
*	MW-23	6'-15.75'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—
*	MW-23	6'-15.75'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—
*	MW-23	6'-15.75'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	01/31/2008	—	0.2 U	—	—	—	—	—	—	0.96 U
*	MW-24	6'-19.75'	02/26/2009	—	0.2 U	—	—	—	—	—	—	1 U
*	MW-24	6'-19.75'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—
*	MW-24		08/25/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
*	MW-24		02/09/2018	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
*	MW-49	5'-17'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—
*	MW-49	5'-17'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—
*	MW-49	5'-17'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—
*	MW-49	5'-17'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-50	23'-27'	02/24/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-50	23'-27'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-50	23'-27'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-50	23'-27'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-50		08/16/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
	MW-51	23'-27'	02/24/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-51	23'-27'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-51	23'-27'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-51	23'-27'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-51		08/25/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
	MW-51		02/14/2018	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
	MW-52	23'-27'	02/24/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-52	23'-27'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-52	23'-27'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-52	23'-27'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-52		08/18/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
	MW-52		08/18/2017	0.04 U	0.04 U	0.1 U	0.04 U	0.03 U	0.03 U	0.04 U	0.04 U	0.03 U
	PL2-JF01AR	23.2'-27'	08/01/2007	1 U	1 U	5 U	1 U	1 U	1 U	—	5 U	1 U
	PL2-JF01AR	23'-27'	01/30/2008	—	0.96 U	—	—	—	—	—	—	0.96 U
	PL2-JF01AR	23'-27'	02/04/2008	—	1 U	—	—	—	—	—	—	1 U
	PL2-JF01B	40'-50'	08/01/2007	1 U	1 U	5 U	1 U	1 U	1 U	—	5 U	1 U
	PL2-JF01B	40'-50'	01/30/2008	—	0.96 U	—	—	—	—	—	—	0.96 U
	PL2-JF01C	74'-78.5'	08/01/2007	1 U	1 U	5 U	1 U	1 U	1 U	—	5 U	1 U
	PL2-JF01C	74'-78'	01/30/2008	—	0.94 U	—	—	—	—	—	—	0.94 U
	PL2-JF02A	5.5'-23'	08/01/2007	1 U	1 U	5 U	1 U	1 U	1 U	—	5 U	1 U

Table B-11E: Semivolatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Other SVOCs (micrograms per liter)								
			Carbazole	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	n-Nitrosodimethylamine	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine
		CAS	86-74-8	87-68-3	77-47-4	67-72-1	78-59-1	98-95-3	62-75-9	621-64-7	86-30-6
PL2-JF02A	8'-22.75'	01/30/2008	—	0.97 U	—	—	—	—	—	—	0.97 U
PL2-JF02A	8'-22.75'	02/04/2008	—	1 U	—	—	—	—	—	—	1 U
PL2-JF04A	8'-18'	01/30/2008	—	0.95 U	—	—	—	—	—	—	0.95 U
T2B2	0-15'	01/13/2011	—	0.5 U	—	—	—	—	—	—	—
T2B3	0-15'	01/13/2011	—	0.5 U	—	—	—	—	—	—	—
T2B3	0-15'	01/13/2011	—	0.5 U	—	—	—	—	—	—	—
T2B4	0-15'	01/13/2011	—	0.5 U	—	—	—	—	—	—	—
T3B2	0-15'	01/14/2011	—	0.5 U	—	—	—	—	—	—	—
T3B3	0-15'	01/13/2011	—	0.5 U	—	—	—	—	—	—	—
T3B4	0-24'	01/13/2011	—	0.5 U	—	—	—	—	—	—	—

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number; SVOC = semivolatile organic compound

Table B-12A: Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)										
		CAS	1,1,1,2-Tetrachloroethane 630-20-6	1,1,1-Trichloroethane 71-55-6	1,1,2,2-Tetrachloroethane 79-34-5	1,1,2-Trichloroethane 79-00-5	1,1-Dichloroethane 75-34-3	1,1-Dichloroethene 75-35-4	1,1-Dichloropropene 563-58-6	1,2,3-Trichlorobenzene 87-61-6	1,2,3-Trichloropropane 96-18-4	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2
Area 1													
MW-16	08/29/1992	10.5'-11'	—	—	—	—	0.1 U	0.1 U	—	—	—	—	0.1 U
* MW-24	09/14/1992	3.5'-4'	—	—	—	—	0.1 U	0.1 U	—	—	—	—	0.1 U
* MW-24	09/14/1992	8.5'-9'	—	—	—	—	0.1 U	0.1 U	—	—	—	—	0.1 U
MW-30	01/30/1994		—	—	—	—	0.05 U	—	—	—	—	—	0.05 U
MW-48	02/12/2009	6'	—	—	—	—	0.00084 U	0.00084 U	—	—	—	—	0.00084 U
MW-48	02/12/2009	10.5'	—	—	—	—	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
MW-48	02/12/2009	15.5'	—	—	—	—	0.001 U	0.001 U	—	—	—	—	0.001 U
* SB-08916	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
* SB-08916	09/13/1994	5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
* SB-08916	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
* SB-08918	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
* SB-08918	09/13/1994	5'	—	—	—	—	0.0012 U	0.0012 U	—	—	—	—	0.0012 U
* SB-08918	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
* SB-08921	09/13/1994	2'	—	—	—	—	0.001 U	0.001 U	—	—	—	—	0.001 U
* SB-08921	09/13/1994	5'	—	—	—	—	0.001 U	0.001 U	—	—	—	—	0.001 U
* SB-08921	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
* SB-08923	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
* SB-08923	09/13/1994	5'	—	—	—	—	0.0012 U	0.0012 U	—	—	—	—	0.0012 U
* SB-08923	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
Area 2													
MW-13	08/27/1992	6'-6.5'	—	—	—	—	0.1 U	0.1 U	—	—	—	—	0.1 U
MW-37	02/09/2009	11'	—	—	—	—	0.00074 U	0.00074 U	—	—	—	—	0.00074 U
MW-37	02/09/2009	15.5'	—	—	—	—	0.00082 U	0.00082 U	—	—	—	—	0.00082 U
Area 6													
MW-31	01/30/1994		—	—	—	—	0.05 U	—	—	—	—	—	0.05 U
MW-46	02/11/2009	6.5'	—	—	—	—	0.001 U	0.001 U	—	—	—	—	0.001 U
MW-46	02/11/2009	10.5'	—	—	—	—	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
MW-46	02/11/2009	16.5'	—	—	—	—	0.001 U	0.001 U	—	—	—	—	0.001 U
Area 9													
DM-B-1	03/01/1990	11'	—	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	—	—	—	—	0.0025 U
DM-SB-1	03/01/1990	0'-3.5'	—	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	—	—	—	—	0.0025 U
DM-SB-2	03/01/1990	0'-3.5'	—	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	—	—	—	—	0.0025 U
JF-DGP2	03/29/2012	2'	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0053 U	0.0021 U	0.0053 U	0.0011 U
JF-DGP2	03/29/2012	16'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0025 U	0.0062 U	0.0012 U
JF-DGP2	03/29/2012	26'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0059 U	0.0024 U	0.0059 U	0.0012 U
JF-DGP3	03/28/2012	15'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0059 U	0.0024 U	0.0059 U	0.0012 U
JF-DGP4	03/28/2012	17'	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0052 U	0.0021 U	0.0052 U	0.001 U
JF-DGP4	03/28/2012	21'	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0049 U	0.002 U	0.0049 U	0.001 U
JF-DGP4	03/28/2012	26'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0061 U	0.0024 U	0.0061 U	0.0012 U
JF-DGP4	03/28/2012	31'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0059 U	0.0024 U	0.0059 U	0.0012 U
JF-DGP4	03/28/2012	33'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0061 U	0.0024 U	0.0061 U	0.0012 U
JF-DGP5	03/29/2012	2'	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0053 U	0.0021 U	0.0053 U	0.0011 U
JF-DGP5	03/29/2012	16'	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0047 U	0.0019 U	0.0047 U	0.0009 U
JF-DGP5	03/29/2012	26'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.006 U	0.0024 U	0.006 U	0.0012 U
JF-DGP6	03/30/2012	18.5'	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0079 U	0.0032 U	0.0079 U	0.0016 U
JF-DGP6	03/30/2012	21'	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0069 U	0.0028 U	0.0069 U	0.0014 U

Table B-12A: Halogenated Volatile Organic Compounds in Soil

	Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)										
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)
			CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4	96-12-8	107-06-2
	JF-DGP6	03/30/2012	26'	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.38 U	0.15 U	0.38 U	0.075 U
*	MW-24	09/14/1992	3.5'-4'	—	—	—	—	0.1 U	0.1 U	—	—	—	—	0.1 U
*	MW-24	09/14/1992	8.5'-9'	—	—	—	—	0.1 U	0.1 U	—	—	—	—	0.1 U
	MW-50	02/12/2009	6.5'	—	—	—	—	0.001 U	0.001 U	—	—	—	—	0.001 U
	MW-50	02/12/2009	11'	—	—	—	—	0.00095 U	0.00095 U	—	—	—	—	0.00095 U
	MW-51	02/12/2009	5.5'	—	—	—	—	0.00071 U	0.00071 U	—	—	—	—	0.00071 U
	MW-51	02/12/2009	10.5'	—	—	—	—	0.00095 U	0.00095 U	—	—	—	—	0.00095 U
	MW-52	02/12/2009	5.5'	—	—	—	—	0.00083 U	0.00083 U	—	—	—	—	0.00083 U
	MW-52	02/12/2009	11.5'	—	—	—	—	0.001 U	0.001 U	—	—	—	—	0.001 U
	SB-07202	09/08/1994	1.75-2.75'	—	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
	SB-07202	09/12/1994	5'-6.5'	—	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
	SB-07202	09/12/1994	7.5'-8.5'	—	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	—	—	—	—	0.0012 U
	SB-07202	09/12/1994	12.5'-14'	—	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
*	SB-08916	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
*	SB-08916	09/13/1994	5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
*	SB-08916	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
*	SB-08918	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
*	SB-08918	09/13/1994	5'	—	—	—	—	0.0012 U	0.0012 U	—	—	—	—	0.0012 U
*	SB-08918	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
*	SB-08921	09/13/1994	2'	—	—	—	—	0.001 U	0.001 U	—	—	—	—	0.001 U
*	SB-08921	09/13/1994	5'	—	—	—	—	0.001 U	0.001 U	—	—	—	—	0.001 U
*	SB-08921	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
*	SB-08921	09/13/1994	5'	—	—	—	—	0.001 U	0.001 U	—	—	—	—	0.001 U
*	SB-08921	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
*	SB-08923	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
*	SB-08923	09/13/1994	5'	—	—	—	—	0.0012 U	0.0012 U	—	—	—	—	0.0012 U
*	SB-08923	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
	SB-09101	09/12/1994	2'	—	—	—	—	0.001 U	0.001 U	—	—	—	—	0.001 U
	SB-09101	09/12/1994	5'	—	—	—	—	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
	SB-09101	09/12/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
	SB-09105	09/12/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
	SB-09105	09/12/1994	5'	—	—	—	—	0.0014 U	0.0014 U	—	—	—	—	0.0014 U
	SB-09105	09/12/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U
	SB-09106	09/12/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—	—	—	0.0011 U
	SB-09106	09/12/1994	5'	—	—	—	—	0.0012 U	0.0012 U	—	—	—	—	0.0012 U
	SB-09106	09/12/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—	—	—	0.0013 U

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-12B: Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)										
			1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane	Bromoethane	Bromoform	Bromomethane
		CAS	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5	74-96-4	75-25-2	74-83-9
Area 9													
DM-B-1	03/01/1990	11'	0.0025 U	—	—	0.0025 U	—	—	—	—	—	0.0025 U	0.0025 U
DM-SB-1	03/01/1990	0'-3.5'	0.0025 U	—	—	0.0025 U	—	—	—	—	—	0.0025 U	0.0025 U
DM-SB-2	03/01/1990	0'-3.5'	0.0025 U	—	—	0.0025 U	—	—	—	—	—	0.0025 U	0.0025 U
JF-DGP2	03/29/2012	2'	0.0011 U	0.0011 U	0.0011 U	0.0053 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0021 U	0.0011 U	0.0011 U
JF-DGP2	03/29/2012	16'	0.0012 U	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0025 U	0.0012 U	0.0012 U
JF-DGP2	03/29/2012	26'	0.0012 U	0.0012 U	0.0012 U	0.0059 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	0.0012 U
JF-DGP3	03/28/2012	15'	0.0012 U	0.0012 U	0.0012 U	0.0059 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	0.0012 U
JF-DGP4	03/28/2012	17'	0.001 U	0.001 U	0.001 U	0.0052 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0021 U	0.001 U	0.001 U
JF-DGP4	03/28/2012	21'	0.001 U	0.001 U	0.001 U	0.0049 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U
JF-DGP4	03/28/2012	26'	0.0012 U	0.0012 U	0.0012 U	0.0061 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	**0.0007 J**
JF-DGP4	03/28/2012	31'	0.0012 U	0.0012 U	0.0012 U	0.0059 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	0.0012 U
JF-DGP4	03/28/2012	33'	0.0012 U	0.0012 U	0.0012 U	0.0061 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	0.0012 U
JF-DGP5	03/29/2012	2'	0.0011 U	0.0011 U	0.0011 U	0.0053 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0021 U	0.0011 U	0.0011 U
JF-DGP5	03/29/2012	16'	0.0009 U	0.0009 U	0.0009 U	0.0047 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0019 U	0.0009 U	0.0009 U
JF-DGP5	03/29/2012	26'	0.0012 U	0.0012 U	0.0012 U	0.006 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	0.0012 U
JF-DGP6	03/30/2012	18.5'	0.0016 U	0.0016 U	0.0016 U	0.0079 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0032 U	0.0016 U	0.0016 U
JF-DGP6	03/30/2012	21'	0.0014 U	0.0014 U	0.0014 U	0.0069 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0028 U	0.0014 U	0.0014 U
JF-DGP6	03/30/2012	26'	0.075 U	0.075 U	0.075 U	0.38 U	0.075 U	0.075 U	0.075 U	0.075 U	0.15 U	0.075 U	**0.034 J**
SB-07202	09/08/1994	1.75-2.75'	0.0011 U	—	—	0.0054 U	—	—	—	—	—	0.0011 U	0.0022 U
SB-07202	09/12/1994	5'-6.5'	0.0011 U	—	—	0.0057 U	—	—	—	—	—	0.0011 U	0.0023 U
SB-07202	09/12/1994	7.5'-8.5'	0.0012 U	—	—	0.0061 U	—	—	—	—	—	0.0012 U	0.0024 U
SB-07202	09/12/1994	12.5'-14'	0.0013 U	—	—	0.0064 U	—	—	—	—	—	0.0013 U	0.0026 U

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-12C: Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
			Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorobromomethane
		CAS	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1	74-95-3	75-27-4
Area 1												
MW-16	08/29/1992	10.5'-11'	—	—	—	—	—	0.1 U	—	—	—	—
* MW-24	09/14/1992	3.5'-4'	—	—	—	—	—	0.1 U	—	—	—	—
* MW-24	09/14/1992	8.5'-9'	—	—	—	—	—	0.1 U	—	—	—	—
MW-48	02/12/2009	6'	—	—	—	—	—	0.00084 U	—	—	—	—
MW-48	02/12/2009	10.5'	—	—	—	—	—	0.0011 U	—	—	—	—
MW-48	02/12/2009	15.5'	—	—	—	—	—	0.001 U	—	—	—	—
* SB-08916	09/13/1994	2'	—	—	—	—	—	0.0011 U	—	—	—	—
* SB-08916	09/13/1994	5'	—	—	—	—	—	0.0013 U	—	—	—	—
* SB-08916	09/13/1994	12.5'	—	—	—	—	—	0.0013 U	—	—	—	—
* SB-08918	09/13/1994	2'	—	—	—	—	—	0.0011 U	—	—	—	—
* SB-08918	09/13/1994	5'	—	—	—	—	—	0.0012 U	—	—	—	—
* SB-08918	09/13/1994	12.5'	—	—	—	—	—	0.0013 U	—	—	—	—
* SB-08921	09/13/1994	2'	—	—	—	—	—	0.001 U	—	—	—	—
* SB-08921	09/13/1994	5'	—	—	—	—	—	0.001 U	—	—	—	—
* SB-08921	09/13/1994	12.5'	—	—	—	—	—	**0.0056**	—	—	—	—
* SB-08923	09/13/1994	2'	—	—	—	—	—	0.0011 U	—	—	—	—
* SB-08923	09/13/1994	5'	—	—	—	—	—	0.0012 U	—	—	—	—
* SB-08923	09/13/1994	12.5'	—	—	—	—	—	**0.07**	—	—	—	—
Area 2												
MW-13	08/27/1992	6'-6.5'	—	—	—	—	—	0.1 U	—	—	—	—
MW-37	02/09/2009	11'	—	—	—	—	—	0.00074 U	—	—	—	—
MW-37	02/09/2009	15.5'	—	—	—	—	—	0.00082 U	—	—	—	—
Area 6												
MW-46	02/11/2009	6.5'	—	—	—	—	—	0.001 U	—	—	—	—
MW-46	02/11/2009	10.5'	—	—	—	—	—	0.0011 U	—	—	—	—
MW-46	02/11/2009	16.5'	—	—	—	—	—	0.001 U	—	—	—	—
Area 9												
DM-B-1	03/01/1990	11'	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	**0.0051**	—	0.0025 U	—	0.0025 U
DM-SB-1	03/01/1990	0'-3.5'	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	—	0.0025 U	—	0.0025 U
DM-SB-2	03/01/1990	0'-3.5'	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	—	0.0025 U	—	0.0025 U
JF-DGP2	03/29/2012	2'	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
JF-DGP2	03/29/2012	16'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	**0.0017**	0.0012 U	0.0012 U	0.0012 U	0.0012 U
JF-DGP2	03/29/2012	26'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	**0.0006 J**	0.0012 U	0.0012 U	0.0012 U	0.0012 U
JF-DGP3	03/28/2012	15'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	**0.003**	0.0012 U	0.0012 U	0.0012 U	0.0012 U
JF-DGP4	03/28/2012	17'	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.0054**	0.001 U	0.001 U	0.001 U	0.001 U
JF-DGP4	03/28/2012	21'	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.0008 J**	0.001 U	0.001 U	0.001 U	0.001 U
JF-DGP4	03/28/2012	26'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	**0.0031**	0.0012 U	0.0012 U	0.0012 U	0.0012 U
JF-DGP4	03/28/2012	31'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	**0.0023**	0.0012 U	0.0012 U	0.0012 U	0.0012 U
JF-DGP4	03/28/2012	33'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	**0.0007 J**	0.0012 U	0.0012 U	0.0012 U	0.0012 U
JF-DGP5	03/29/2012	2'	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
JF-DGP5	03/29/2012	16'	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U
JF-DGP5	03/29/2012	26'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
JF-DGP6	03/30/2012	18.5'	0.0016 U	**0.019 J**	0.0016 U	0.0016 U	0.0016 U	**0.0085 J**	0.0016 U	0.0016 U	0.0016 U	0.0016 U
JF-DGP6	03/30/2012	21'	0.0014 U	**0.0046**	0.0014 U	0.0014 U	0.0014 U	**0.0014**	0.0014 U	0.0014 U	0.0014 U	0.0014 U
JF-DGP6	03/30/2012	26'	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
* MW-24	09/14/1992	3.5'-4'	—	—	—	—	—	0.1 U	—	—	—	—

Table B-12C: Halogenated Volatile Organic Compounds in Soil

	Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
				Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorobromomethane
			CAS	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1	74-95-3	75-27-4
*	MW-24	09/14/1992	8.5'-9'	—	—	—	—	—	0.1 U	—	—	—	—
	MW-50	02/12/2009	6.5'	—	—	—	—	—	0.001 U	—	—	—	—
	MW-50	02/12/2009	11'	—	—	—	—	—	0.00095 U	—	—	—	—
	MW-51	02/12/2009	5.5'	—	—	—	—	—	0.00071 U	—	—	—	—
	MW-51	02/12/2009	10.5'	—	—	—	—	—	0.00095 U	—	—	—	—
	MW-52	02/12/2009	5.5'	—	—	—	—	—	0.00083 U	—	—	—	—
	MW-52	02/12/2009	11.5'	—	—	—	—	—	0.001 U	—	—	—	—
	SB-07201		1.5-2.5'	—	—	—	—	—	0.0011 U	—	—	—	—
	SB-07201		5'-6.5'	—	—	—	—	—	0.0013 U	—	—	—	—
	SB-07201		12.5'-14.25'	—	—	—	—	—	0.0013 U	—	—	—	—
	SB-07202	09/08/1994	1.75-2.75'	0.0011 U	0.0011 U	0.0022 U	0.0011 U	0.0022 U	0.0011 U	0.0011 U	0.0011 U	—	0.0011 U
	SB-07202	09/12/1994	5'-6.5'	0.0011 U	0.0011 U	0.0023 U	0.0011 U	0.0023 U	0.0011 U	0.0011 U	0.0011 U	—	0.0011 U
	SB-07202	09/12/1994	7.5'-8.5'	0.0012 U	0.0012 U	0.0024 U	0.0012 U	0.0024 U	0.0012 U	0.0012 U	0.0012 U	—	0.0012 U
	SB-07202	09/12/1994	12.5'-14'	0.0013 U	0.0013 U	0.0026 U	0.0013 U	0.0026 U	0.0013 U	0.0013 U	0.0013 U	—	0.0013 U
*	SB-08916	09/13/1994	2'	—	—	—	—	—	0.0011 U	—	—	—	—
*	SB-08916	09/13/1994	5'	—	—	—	—	—	0.0013 U	—	—	—	—
*	SB-08916	09/13/1994	12.5'	—	—	—	—	—	0.0013 U	—	—	—	—
*	SB-08918	09/13/1994	2'	—	—	—	—	—	0.0011 U	—	—	—	—
*	SB-08918	09/13/1994	5'	—	—	—	—	—	0.0012 U	—	—	—	—
*	SB-08918	09/13/1994	12.5'	—	—	—	—	—	0.0013 U	—	—	—	—
*	SB-08921	09/13/1994	2'	—	—	—	—	—	0.001 U	—	—	—	—
*	SB-08921	09/13/1994	5'	—	—	—	—	—	0.001 U	—	—	—	—
*	SB-08921	09/13/1994	12.5'	—	—	—	—	—	**0.0056**	—	—	—	—
*	SB-08923	09/13/1994	2'	—	—	—	—	—	0.0011 U	—	—	—	—
*	SB-08923	09/13/1994	5'	—	—	—	—	—	0.0012 U	—	—	—	—
*	SB-08923	09/13/1994	12.5'	—	—	—	—	—	**0.07**	—	—	—	—
	SB-09101	09/12/1994	2'	—	—	—	—	—	0.001 U	—	—	—	—
	SB-09101	09/12/1994	5'	—	—	—	—	—	0.0011 U	—	—	—	—
	SB-09101	09/12/1994	12.5'	—	—	—	—	—	0.0013 U	—	—	—	—
	SB-09105	09/12/1994	2'	—	—	—	—	—	0.0011 U	—	—	—	—
	SB-09105	09/12/1994	5'	—	—	—	—	—	0.0014 U	—	—	—	—
	SB-09105	09/12/1994	12.5'	—	—	—	—	—	0.0013 U	—	—	—	—
	SB-09106	09/12/1994	2'	—	—	—	—	—	0.0011 U	—	—	—	—
	SB-09106	09/12/1994	5'	—	—	—	—	—	0.0012 U	—	—	—	—
	SB-09106	09/12/1994	12.5'	—	—	—	—	—	0.0013 U	—	—	—	—

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-12D: Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)							
			Dichlorodifluoromethane (CFC-12)	Ethylene dibromide (EDB)	Methyl iodide	Methylene chloride	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	trans-1,4-Dichloro-2-butene
		CAS	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
Area 1										
MW-16	08/29/1992	10.5'-11'	—	—	—	—	0.1 U	0.1 U	—	—
* MW-24	09/14/1992	3.5'-4'	—	—	—	—	0.1 U	0.1 U	—	—
* MW-24	09/14/1992	8.5'-9'	—	—	—	—	0.1 U	0.1 U	—	—
MW-30	01/30/1994		—	—	—	—	0.05 U	0.05 U	—	—
MW-48	02/12/2009	6'	—	—	—	—	0.00084 U	0.00084 U	—	—
MW-48	02/12/2009	10.5'	—	—	—	—	0.0011 U	0.0011 U	—	—
MW-48	02/12/2009	15.5'	—	—	—	—	0.001 U	0.001 U	—	—
* SB-08916	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—
* SB-08916	09/13/1994	5'	—	—	—	—	0.0013 U	0.0013 U	—	—
* SB-08916	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—
* SB-08918	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—
* SB-08918	09/13/1994	5'	—	—	—	—	0.0012 U	0.0012 U	—	—
* SB-08918	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—
* SB-08921	09/13/1994	2'	—	—	—	—	0.001 U	0.001 U	—	—
* SB-08921	09/13/1994	5'	—	—	—	—	0.001 U	0.001 U	—	—
* SB-08921	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—
* SB-08923	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—
* SB-08923	09/13/1994	5'	—	—	—	—	**0.0013**	0.0012 U	—	—
* SB-08923	09/13/1994	12.5'	—	—	—	—	0.0013 U	**0.0027**	—	—
Area 2										
MW-13	08/27/1992	6'-6.5'	—	—	—	—	0.1 U	0.1 U	—	—
MW-37	02/09/2009	11'	—	—	—	—	0.00074 U	0.00074 U	—	—
MW-37	02/09/2009	15.5'	—	—	—	—	0.00082 U	0.00082 U	—	—
Area 6										
MW-31	01/30/1994		—	—	—	—	0.05 U	0.05 U	—	—
MW-46	02/11/2009	6.5'	—	—	—	—	0.001 U	0.001 U	—	—
MW-46	02/11/2009	10.5'	—	—	—	—	0.0011 U	0.0011 U	—	—
MW-46	02/11/2009	16.5'	—	—	—	—	0.001 U	0.001 U	—	—
Area 9										
DM-B-1	03/01/1990	11'	—	—	—	0.0025 U	0.0025 U	0.0025 U	0.0025 U	—
DM-SB-1	03/01/1990	0'-3.5'	—	—	—	0.0025 U	0.0025 U	0.0025 U	0.0025 U	—
DM-SB-2	03/01/1990	0'-3.5'	—	—	—	0.0025 U	0.0025 U	0.0025 U	0.0025 U	—
JF-DGP2	03/29/2012	2'	0.0011 U	0.0011 U	0.0011 U	0.0021 U	0.0011 U	0.0011 U	0.0011 U	0.0053 U
JF-DGP2	03/29/2012	16'	0.0012 U	0.0012 U	0.0012 U	0.0025 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
JF-DGP2	03/29/2012	26'	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	0.0012 U	0.0012 U	0.0059 U
JF-DGP3	03/28/2012	15'	0.0012 U	0.0012 U	0.0012 U	0.0024 U	**0.0009 J**	0.0012 U	0.0012 U	0.0059 U
JF-DGP4	03/28/2012	17'	0.001 U	0.001 U	0.001 U	0.0021 U	**0.0008 J**	**0.0017**	0.001 U	0.0052 U
JF-DGP4	03/28/2012	21'	0.001 U	0.001 U	**0.0007 J**	0.002 U	**0.0005 J**	0.001 U	0.001 U	0.0049 U
JF-DGP4	03/28/2012	26'	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	**0.0008 J**	0.0012 U	0.0061 U
JF-DGP4	03/28/2012	31'	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	0.0012 U	0.0012 U	0.0059 U
JF-DGP4	03/28/2012	33'	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	0.0012 U	0.0012 U	0.0061 U
JF-DGP5	03/29/2012	2'	0.0011 U	0.0011 U	0.0011 U	0.0021 U	0.0011 U	0.0011 U	0.0011 U	0.0053 U
JF-DGP5	03/29/2012	16'	0.0009 U	0.0009 U	0.0009 U	0.0019 U	0.0009 U	0.0009 U	0.0009 U	0.0047 U
JF-DGP5	03/29/2012	26'	0.0012 U	0.0012 U	**0.0008 J**	0.0024 U	0.0012 U	0.0012 U	0.0012 U	0.006 U
JF-DGP6	03/30/2012	18.5'	0.0016 U	0.0016 U	**0.0036 J**	0.0032 U	**0.0029 J**	**0.0093 J**	0.0016 U	0.0079 U
JF-DGP6	03/30/2012	21'	0.0014 U	0.0014 U	0.0014 U	0.0028 U	0.0014 U	**0.0007 J**	0.0014 U	0.0069 U

Table B-12D: Halogenated Volatile Organic Compounds in Soil

	Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)								
				Dichlorodifluoromethane (CFC-12)	Ethylene dibromide (EDB)	Methyl iodide	Methylene chloride	Tetrachloroethene (PCE)	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	trans-1,4-Dichloro-2-butene
			CAS	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
	JF-DGP6	03/30/2012	26'	0.075 U	0.075 U	**0.043 J**	0.15 U	0.075 U	0.075 U	0.075 U	0.38 U
*	MW-24	09/14/1992	3.5'-4'	—	—	—	—	0.1 U	0.1 U	—	—
*	MW-24	09/14/1992	8.5'-9'	—	—	—	—	0.1 U	0.1 U	—	—
	MW-50	02/12/2009	6.5'	—	—	—	—	0.001 U	0.001 U	—	—
	MW-50	02/12/2009	11'	—	—	—	—	0.00095 U	0.00095 U	—	—
	MW-51	02/12/2009	5.5'	—	—	—	—	0.00071 U	0.00071 U	—	—
	MW-51	02/12/2009	10.5'	—	—	—	—	0.00095 U	0.00095 U	—	—
	MW-52	02/12/2009	5.5'	—	—	—	—	0.00083 U	0.00083 U	—	—
	MW-52	02/12/2009	11.5'	—	—	—	—	0.001 U	0.001 U	—	—
	SB-07201		1.5-2.5'	—	—	—	—	0.0011 U	—	—	—
	SB-07201		5'-6.5'	—	—	—	—	**0.0025**	—	—	—
	SB-07201		12.5'-14.25'	—	—	—	—	0.0013 U	—	—	—
	SB-07202	09/08/1994	1.75-2.75'	—	—	—	0.0022 U	0.0011 U	0.0011 U	0.0011 U	—
	SB-07202	09/12/1994	5'-6.5'	—	—	—	0.0023 U	0.0011 U	0.0011 U	0.0011 U	—
	SB-07202	09/12/1994	7.5'-8.5'	—	—	—	0.0024 U	0.0012 U	0.0012 U	0.0012 U	—
	SB-07202	09/12/1994	12.5'-14'	—	—	—	0.0026 U	0.0013 U	0.0013 U	0.0013 U	—
*	SB-08916	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—
*	SB-08916	09/13/1994	5'	—	—	—	—	0.0013 U	0.0013 U	—	—
*	SB-08916	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—
*	SB-08918	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—
*	SB-08918	09/13/1994	5'	—	—	—	—	0.0012 U	0.0012 U	—	—
*	SB-08918	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—
*	SB-08921	09/13/1994	2'	—	—	—	—	0.001 U	0.001 U	—	—
*	SB-08921	09/13/1994	5'	—	—	—	—	0.001 U	0.001 U	—	—
*	SB-08921	09/13/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—
*	SB-08923	09/13/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—
*	SB-08923	09/13/1994	5'	—	—	—	—	**0.0013**	0.0012 U	—	—
*	SB-08923	09/13/1994	12.5'	—	—	—	—	0.0013 U	**0.0027**	—	—
	SB-09101	09/12/1994	2'	—	—	—	—	0.001 U	0.001 U	—	—
	SB-09101	09/12/1994	5'	—	—	—	—	0.0011 U	0.0011 U	—	—
	SB-09101	09/12/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—
	SB-09105	09/12/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—
	SB-09105	09/12/1994	5'	—	—	—	—	0.0014 U	0.0014 U	—	—
	SB-09105	09/12/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—
	SB-09106	09/12/1994	2'	—	—	—	—	0.0011 U	0.0011 U	—	—
	SB-09106	09/12/1994	5'	—	—	—	—	0.0012 U	0.0012 U	—	—
	SB-09106	09/12/1994	12.5'	—	—	—	—	0.0013 U	0.0013 U	—	—

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-12E: Halogenated Volatile Organic Compounds in Soil

	Sample Location	Sample Name	Sample Date	Sample Depth	Trichlorofluoromethane (CFC-11)	(milligrams per kilogram) Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
				CAS	75-69-4	76-13-1	75-01-4
Area 1							
	MW-16	MW-16:10.5-11	08/29/1992	10.5'-11'	—	—	0.1 U
*	MW-24	MW-24:3.5-4	09/14/1992	3.5'-4'	—	—	0.1 U
*	MW-24	MW-24:8.5-9	09/14/1992	8.5'-9'	—	—	0.1 U
	MW-30	MW-30	01/30/1994		—	—	0.05 U
	MW-48	MW-48:6-6	02/12/2009	6'	—	—	0.0042 U
	MW-48	MW-48:10.5-10.5	02/12/2009	10.5'	—	—	0.0054 U
	MW-48	MW-48:15.5-15.5	02/12/2009	15.5'	—	—	0.0051 U
*	SB-08916	SB-08916:2-2	09/13/1994	2'	—	—	0.0022 U
*	SB-08916	SB-08916:5-5	09/13/1994	5'	—	—	0.0025 U
*	SB-08916	SB-08916:12.5-12.5	09/13/1994	12.5'	—	—	**0.01 J**
*	SB-08918	SB-08918:2-2	09/13/1994	2'	—	—	0.0022 U
*	SB-08918	SB-08918:5-5	09/13/1994	5'	—	—	0.0023 U
*	SB-08918	SB-08918:12.5-12.5	09/13/1994	12.5'	—	—	0.0026 U
*	SB-08921	SB-08921:2-2	09/13/1994	2'	—	—	0.0021 U
*	SB-08921	SB-08921:5-5	09/13/1994	5'	—	—	0.0021 U
*	SB-08921	SB-08921:12.5-12.5	09/13/1994	12.5'	—	—	0.0026 U
*	SB-08923	SB-08923:2-2	09/13/1994	2'	—	—	0.0022 U
*	SB-08923	SB-08923:5-5	09/13/1994	5'	—	—	0.0025 U
*	SB-08923	SB-08923:12.5-12.5	09/13/1994	12.5'	—	—	**0.009**
Area 2							
	MW-13	MW-13:6-6.5	08/27/1992	6'-6.5'	—	—	0.1 U
	MW-37	MW-37:11-11	02/09/2009	11'	—	—	0.0037 U
	MW-37	MW-37:15.5-15.5	02/09/2009	15.5'	—	—	0.0041 U
Area 6							
	MW-31	MW-31	01/30/1994		—	—	0.05 U
	MW-46	MW-46:6.5-6.5	02/11/2009	6.5'	—	—	0.0052 U
	MW-46	MW-46:10.5-10.5	02/11/2009	10.5'	—	—	0.0056 U
	MW-46	MW-46:16.5-16.5	02/11/2009	16.5'	—	—	0.0052 U
Area 9							
	DM-B-1	DM-B-1	03/01/1990	11'	0.0025 U	—	0.005 U
	DM-SB-1	DM-SB-1	03/01/1990	0'-3.5'	0.0025 U	—	0.005 U
	DM-SB-2	DM-SB-2	03/01/1990	0'-3.5'	0.0025 U	—	0.005 U
	JF-DGP2	JF-DGP2-SO-2	03/29/2012	2'	0.0011 U	0.0021 U	0.0011 U
	JF-DGP2	JF-DGP2-SO-16	03/29/2012	16'	0.0012 U	0.0025 U	0.0012 U
	JF-DGP2	JF-DGP2-SO-26	03/29/2012	26'	0.0012 U	0.0024 U	0.0012 U
	JF-DGP3	JF-DGP3-SO-15	03/28/2012	15'	0.0012 U	0.0024 U	0.0012 U
	JF-DGP4	JF-DGP4-SO-17	03/28/2012	17'	0.001 U	0.0021 U	**0.0011**
	JF-DGP4	JF-DGP4-SO-21	03/28/2012	21'	0.001 U	0.002 U	0.001 U
	JF-DGP4	JF-DGP4-SO-26	03/28/2012	26'	0.0012 U	0.0024 U	0.0012 U
	JF-DGP4	JF-DGP4-SO-31	03/28/2012	31'	0.0012 U	0.0024 U	0.0012 U
	JF-DGP4	JF-DGP4-SO-33	03/28/2012	33'	0.0012 U	0.0024 U	0.0012 U
	JF-DGP5	JF-DGP5-SO-02	03/29/2012	2'	0.0011 U	0.0021 U	0.0011 U
	JF-DGP5	JF-DGP5-SO-16	03/29/2012	16'	0.0009 U	0.0019 U	0.0009 U
	JF-DGP5	JF-DGP5-SO-26	03/29/2012	26'	0.0012 U	0.0024 U	0.0012 U
	JF-DGP6	JF-DGP6-SO-18.5	03/30/2012	18.5'	0.0016 U	0.0032 U	0.0016 U
	JF-DGP6	JF-DGP6-SO-21	03/30/2012	21'	0.0014 U	0.0028 U	0.0014 U
	JF-DGP6	JF-DGP6-SO-26	03/30/2012	26'	0.075 U	0.15 U	0.075 U
*	MW-24	MW-24:3.5-4	09/14/1992	3.5'-4'	—	—	0.1 U

Table B-12E: Halogenated Volatile Organic Compounds in Soil

	Sample Location	Sample Name	Sample Date	Sample Depth	(milligrams per kilogram) Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
				CAS	75-69-4	76-13-1	75-01-4
*	MW-24	MW-24:8.5-9	09/14/1992	8.5'-9'	—	—	0.1 U
	MW-50	MW-50:6.5-6.5	02/12/2009	6.5'	—	—	0.0052 U
	MW-50	MW-50:11-11	02/12/2009	11'	—	—	0.0047 U
	MW-51	MW-51:5.5-5.5	02/12/2009	5.5'	—	—	0.0036 U
	MW-51	MW-51:10.5-10.5	02/12/2009	10.5'	—	—	0.0047 U
	MW-52	MW-52:5.5-5.5	02/12/2009	5.5'	—	—	0.0041 U
	MW-52	MW-52:11.5-11.5	02/12/2009	11.5'	—	—	0.0051 U
	SB-07201	SB-07201-0015		1.5-2.5'	—	—	0.0021 U
	SB-07201	SB-07201-0050		5'-6.5'	—	—	0.0025 U
	SB-07201	SB-07201-0125		12.5'-14.25'	—	—	0.0026 U
	SB-07202	SB-07202-0020	09/08/1994	1.75-2.75'	0.0022 U	0.0022 U	0.0022 U
	SB-07202	SB-07202-0050	09/12/1994	5'-6.5'	0.0023 U	0.0023 U	0.0023 U
	SB-07202	SB-07202-0075	09/12/1994	7.5'-8.5'	0.0024 U	0.0025 U	0.0024 U
	SB-07202	SB-07202-0125	09/12/1994	12.5'-14'	0.0026 U	0.0026 U	0.0026 U
*	SB-08916	SB-08916:2-2	09/13/1994	2'	—	—	0.0022 U
*	SB-08916	SB-08916:5-5	09/13/1994	5'	—	—	0.0025 U
*	SB-08916	SB-08916:12.5-12.5	09/13/1994	12.5'	—	—	**0.01 J**
*	SB-08918	SB-08918:2-2	09/13/1994	2'	—	—	0.0022 U
*	SB-08918	SB-08918:5-5	09/13/1994	5'	—	—	0.0023 U
*	SB-08918	SB-08918:12.5-12.5	09/13/1994	12.5'	—	—	0.0026 U
*	SB-08921	SB-08921:2-2	09/13/1994	2'	—	—	0.0021 U
*	SB-08921	SB-08921:5-5	09/13/1994	5'	—	—	0.0021 U
*	SB-08921	SB-08921:12.5-12.5	09/13/1994	12.5'	—	—	0.0026 U
*	SB-08923	SB-08923:2-2	09/13/1994	2'	—	—	0.0022 U
*	SB-08923	SB-08923:5-5	09/13/1994	5'	—	—	0.0025 U
*	SB-08923	SB-08923:12.5-12.5	09/13/1994	12.5'	—	—	**0.009**
	SB-09101	SB-09101:2-2	09/12/1994	2'	—	—	0.0021 U
	SB-09101	SB-09101:5-5	09/12/1994	5'	—	—	0.0023 U
	SB-09101	SB-09101:12.5-12.5	09/12/1994	12.5'	—	—	0.0027 U
	SB-09105	SB-09105:2-2	09/12/1994	2'	—	—	0.0021 U
	SB-09105	SB-09105:5-5	09/12/1994	5'	—	—	0.0028 U
	SB-09105	SB-09105:12.5-12.5	09/12/1994	12.5'	—	—	0.0027 U
	SB-09106	SB-09106:2-2	09/12/1994	2'	—	—	0.0021 U
	SB-09106	SB-09106:5-5	09/12/1994	5'	—	—	0.0024 U
	SB-09106	SB-09106:12.5-12.5	09/12/1994	12.5'	—	—	0.0026 U

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
		CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
Area 1											
* GP-08901	14'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08901	24'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08902	14'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08902	24'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08903	14'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08903	24'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08904	14'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08904	24'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08905	14'	09/13/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08905	24'	09/13/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-08906	15'	11/29/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-08906	25'	11/29/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-08906	45'	11/29/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-08906	65'	11/29/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-08907	15'	11/28/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-08907	25'	11/28/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-08907	45'	11/28/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-08907	63'	11/29/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08908	14'	03/17/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08908	25'	03/17/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08908	45'	03/17/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08908	25'	03/17/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-08908	45'	03/17/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09106	14'	03/14/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09106	25'	03/14/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09106	45'	03/14/1995	—	1 U	—	—	1 U	1 U	—	—	—
MW-9		08/17/2017	—	5 U	—	—	2 U	2 U	—	—	—
MW-22	6'-15.75'	09/17/1992	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
MW-22	6'-15.75'	04/13/1993	—	100 U	—	—	100 U	100 U	—	—	—
MW-22	6'-15.75'	11/10/1993	—	5 U	—	—	2 U	2 U	—	—	—
* MW-23	6'-15.75'	09/10/1992	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-23	6'-15.75'	11/10/1993	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-23	6'-15.75'	12/29/2004	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-23	6'-15.75'	12/29/2004	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-23	6'-15.75'	01/31/2008	—	—	—	—	0.2 U	0.2 U	—	—	—
* MW-23	6'-15.75'	02/26/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
* MW-23	6'-15.75'	05/21/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
* MW-23	6'-15.75'	08/27/2009	—	2000 U	—	—	2000 U	2000 U	—	—	—
* MW-23	6'-15.75'	12/11/2009	—	1 U	—	—	1 U	1 U	—	—	—
* MW-23		08/16/2017	—	5 U	—	—	2 U	2 U	—	—	—
* MW-23		02/12/2018	—	1 U	—	—	1 U	1 U	—	—	—
* MW-24	6'-19.75'	09/17/1992	—	0.2 U	—	—	—	—	—	—	—
* MW-24	6'-19.75'	11/10/1993	—	0.2 U	—	—	—	—	—	—	—
* MW-24	6'-19.75'	01/31/2008	—	0.2 U	—	—	—	—	—	—	—
* MW-24	6'-19.75'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—
* MW-24	6'-19.75'	05/20/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
* MW-24	6'-19.75'	08/26/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
* MW-24	6'-19.75'	12/10/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.1 J**	0.05 U	—	—	0.13 U
* MW-24		08/25/2017	0.04 U	0.04 U	0.06 U	0.13 U	**0.13 J**	0.05 U	—	—	0.13 U
* MW-24		02/09/2018	0.04 U	0.04 U	0.06 U	0.13 U	**0.09 J**	0.05 U	—	—	0.13 U
MW-25	6'-19.75'	09/17/1992	—	1 U	—	—	**0.096 J**	1 U	—	—	—

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
			CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
	MW-25	6'-19.75'	04/13/1993	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-25	6'-19.75'	11/10/1993	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-25	6'-19.75'	12/29/2004	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-25	6'-19.75'	01/31/2008	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-25	6'-19.75'	02/26/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-25	6'-19.75'	05/20/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-25	6'-19.75'	08/26/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-25		08/23/2017	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-25		02/09/2018	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-30		08/18/2017	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-30		02/09/2018	—	—	—	—	0.2 U	0.2 U	—	—	—
	MW-30		02/09/2018	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-48		02/12/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-48		02/12/2009	—	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	—	—	—
	MW-48	5'-17'	02/26/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-48	5'-17'	05/20/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-48	5'-17'	08/26/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-48	5'-17'	12/10/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
	MW-48		08/16/2017	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-49	23'-27'	02/13/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-49	5'-17'	02/26/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-49	5'-17'	05/21/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
*	MW-49	5'-17'	08/27/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.08 J**	0.05 U	—	—	0.13 U
*	MW-49	5'-17'	12/11/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
*	MW-49		08/17/2017	—	0.2 U	—	—	**0.35**	0.2 U	—	—	—
*	MW-49		02/09/2018	—	0.2 U	—	—	**0.44**	0.2 U	—	—	—
Area 2												
	MW-7		03/02/1990	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-7	10'-20'	02/25/2009	—	2 U	—	—	2 U	2 U	—	—	—
	MW-7		08/17/2017	—	1 U	—	—	1 U	1 U	—	—	—
	MW-12	5'-20'	11/10/1993	—	1 U	—	—	—	—	—	—	—
	MW-13	5'-20'	09/10/1992	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-14	5'-20'	11/10/1993	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-14	5'-20'	02/27/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-15	5'-20'	11/10/1993	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-15		08/23/2017	—	—	—	—	0.2 U	0.2 U	—	—	—
	MW-15		02/12/2018	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-32	5'-15'	02/27/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
	MW-32		08/24/2017	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-36		02/27/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-36		08/21/2017	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-37	10'-25'	02/25/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-37	10'-25'	05/20/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
	MW-37	10'-25'	08/27/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-37	10'-25'	12/11/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-37		08/17/2017	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-37		02/09/2018	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
		CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
Area 3											
MW-8	5'-20'	02/26/2009	—	5 U	—	—	2 U	2 U	—	—	—
MW-8		08/17/2017	—	2 U	—	—	2 U	2 U	—	—	—
Area 4											
MW-11	5'-20'	02/25/2009	—	—	—	—	1 U	1 U	—	—	—
Area 5											
MW-40	10'-25'	02/27/2009	—	0.2 U	—	—	**0.25**	0.2 U	—	—	—
MW-40	10'-25'	05/20/2009	—	0.2 U	—	—	**0.34**	0.2 U	—	—	—
MW-40	10'-25'	08/26/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
MW-40	10'-25'	12/18/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.13 J**	0.05 U	—	—	0.13 U
MW-40		08/21/2017	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
MW-40		02/08/2018	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
MW-41	30'-40'	02/27/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
MW-41	30'-40'	05/20/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
MW-41	30'-40'	08/26/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
MW-41	30'-40'	12/18/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.08 J**	0.05 U	—	—	0.13 U
MW-41		08/21/2017	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
MW-41		02/08/2018	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
Area 6											
* GP-06635	15'	11/22/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-06635	25'	11/22/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-06635	45'	11/22/1994	—	1 U	—	—	**1.5**	1 U	—	—	—
* GP-06635	65'	11/22/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06640	14'	03/15/1995	—	**5**	—	—	**1.2**	1 U	—	—	—
GP-06640	25'	03/15/1995	—	1 U	—	—	**1.7**	1 U	—	—	—
GP-06640	45'	03/15/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09104	15'	11/23/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-09104	25'	11/23/1994	—	1 U	—	—	**30**	1 U	—	—	—
GP-09104	45'	11/23/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-09105	15'	11/23/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-09105	25'	11/23/1994	—	1 U	—	—	**51**	1 U	—	—	—
GP-09105	45'	11/23/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-09107	14'	03/14/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09107	25'	03/14/1995	—	1 U	—	—	**13**	1 U	—	—	—
GP-09107	45'	03/14/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09108	14'	03/14/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09108	25'	03/14/1995	—	1 U	—	—	**27**	1 U	—	—	—
GP-09108	45'	03/14/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09109	14'	03/15/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09109	25'	03/15/1995	—	1 U	—	—	**39**	1 U	—	—	—
GP-09109	45'	03/15/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09110	15'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09110	25'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09110	45'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09111	15'	09/20/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09111	25'	09/20/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09111	45'	09/20/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-09112	15'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
			CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
	GP-09112	25'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
	GP-09112	45'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-09113	15'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-09113	25'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-09113	45'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-09114	15'	09/20/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-09114	25'	09/20/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-09114	45'	09/20/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-09115	15'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-09115	25'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-09115	45'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	MW-6		03/02/1990	—	5 U	—	—	—	—	—	—	—
*	MW-6		08/21/2017	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-31	5'-19'	12/29/2004	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-31	5'-19'	02/26/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-31		08/16/2017	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-31		02/06/2018	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-45	30'-40'	02/26/2009	—	**1.8**	—	—	**2.4**	**0.27**	—	—	—
	MW-45	30'-40'	05/21/2009	—	**4.2**	—	—	**2.5**	**0.29**	—	—	—
	MW-45	30'-40'	08/27/2009	—	**0.52**	—	—	**0.71**	0.2 U	—	—	—
	MW-45	30'-40'	12/11/2009	—	—	—	—	**2.7**	**0.35**	—	—	—
	MW-45		08/16/2017	0.04 U	0.04 U	0.06 U	0.13 U	**1.25**	**0.08 J**	—	—	0.13 U
	MW-45		02/06/2018	0.04 U	**2.13**	0.06 U	**0.25**	**2.74**	**0.26**	—	—	0.13 U
	MW-46	5'-20'	02/26/2009	—	0.2 U	—	—	**0.71**	0.2 U	—	—	—
	MW-46	5'-20'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—
	MW-46	5'-20'	08/27/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-46	5'-20'	12/11/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-46		08/24/2017	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-46		08/24/2017	—	—	—	—	0.2 U	0.2 U	—	—	—
	MW-46		02/06/2018	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
Area 7												
	MW-38	5'-20'	02/24/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-38	5'-20'	05/20/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
	MW-38	5'-20'	08/25/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-38	5'-20'	12/10/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
	MW-38		08/16/2017	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-39	5'-20'	02/24/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-39	5'-20'	05/20/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-39	5'-20'	08/26/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
*	MW-39	5'-20'	12/10/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
*	MW-39		08/28/2017	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
*	MW-39		02/13/2018	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-42	5'-20'	02/25/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-42	5'-20'	05/20/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-42	5'-20'	08/26/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
*	MW-42	5'-20'	12/10/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
*	MW-42		08/23/2017	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
*	MW-42		02/14/2018	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-43	30'-40'	02/25/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-43	30'-40'	05/20/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
		CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
* MW-43	30'-40'	08/26/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
* MW-43	30'-40'	12/11/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.07 J**	0.05 U	—	—	0.13 U
* MW-43		08/24/2017	0.04 U	0.04 U	0.06 U	0.13 U	**0.06 J**	0.05 U	—	—	0.13 U
* MW-43		02/14/2018	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-44	50'-60'	02/25/2009	—	0.4 U	—	—	0.4 U	0.4 U	—	—	—
* MW-44	50'-60'	05/20/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-44	50'-60'	08/26/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
* MW-44	50'-60'	12/18/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.2 J**	0.05 U	—	—	0.13 U
* MW-44		08/23/2017	0.04 U	0.04 U	0.06 U	0.13 U	**0.19 J**	0.05 U	—	—	0.13 U
* MW-44		02/14/2018	0.04 U	0.04 U	0.06 U	0.13 U	**0.07 J**	0.05 U	—	—	0.13 U
Area 8											
* GP-06635	15'	11/22/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-06635	25'	11/22/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-06635	45'	11/22/1994	—	1 U	—	—	**1.5**	1 U	—	—	—
* GP-06635	65'	11/22/1994	—	1 U	—	—	1 U	1 U	—	—	—
* GP-09113	15'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-09113	25'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-09113	45'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-09114	15'	09/20/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-09114	25'	09/20/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-09114	45'	09/20/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-09115	15'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-09115	25'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
* GP-09115	45'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
* MW-6		03/02/1990	—	5 U	—	—	—	—	—	—	—
* MW-6		08/21/2017	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
* MW-39	5'-20'	02/24/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-39	5'-20'	05/20/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-39	5'-20'	08/26/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
* MW-39	5'-20'	12/10/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
* MW-39		08/28/2017	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
* MW-39		02/13/2018	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-42	5'-20'	02/25/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-42	5'-20'	05/20/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-42	5'-20'	08/26/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
* MW-42	5'-20'	12/10/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
* MW-42		08/23/2017	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
* MW-42		02/14/2018	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-43	30'-40'	02/25/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-43	30'-40'	05/20/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-43	30'-40'	08/26/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
* MW-43	30'-40'	12/11/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.07 J**	0.05 U	—	—	0.13 U
* MW-43		08/24/2017	0.04 U	0.04 U	0.06 U	0.13 U	**0.06 J**	0.05 U	—	—	0.13 U
* MW-43		02/14/2018	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-44	50'-60'	02/25/2009	—	0.4 U	—	—	0.4 U	0.4 U	—	—	—
* MW-44	50'-60'	05/20/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
* MW-44	50'-60'	08/26/2009	—	—	—	—	0.2 U	0.2 U	—	—	—
* MW-44	50'-60'	12/18/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.2 J**	0.05 U	—	—	0.13 U
* MW-44		08/23/2017	0.04 U	0.04 U	0.06 U	0.13 U	**0.19 J**	0.05 U	—	—	0.13 U
* MW-44		02/14/2018	0.04 U	0.04 U	0.06 U	0.13 U	**0.07 J**	0.05 U	—	—	0.13 U

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
		CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
MW-47	5'-20'	02/25/2009	—	0.2 U	—	—	**0.22**	0.2 U	—	—	—
MW-47	5'-20'	05/21/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
MW-47	5'-20'	08/27/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
MW-47	5'-20'	12/11/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
MW-47		08/24/2017	—	—	—	—	0.2 U	0.2 U	—	—	—
MW-47		02/12/2018	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
PL2-JF03A	8'-22.75'	09/28/1995	—	**1.3**	—	—	**3**	1 U	—	—	—
PL2-JF03A	8'-22.75'	11/17/1995	—	1 U	—	—	**7.7**	1 U	—	—	—
PL2-JF03A	8'-22.75'	03/01/1996	—	**1.2**	—	—	**9.3**	1 U	—	—	—
PL2-JF03A	8'-22.75'	05/23/1996	—	1 U	—	—	**6.4**	1 U	—	—	—
PL2-JF03A	8'-22.75'	08/26/1996	—	1 U	—	—	**2.9**	1 U	—	—	—
PL2-JF03A	8'-22.75'	11/21/1996	—	1 U	—	—	**2**	1 U	—	—	—
PL2-JF03A	8'-22.75'	04/26/2001	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF03A	8'-22.75'	07/25/2001	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF03A	8'-22.75'	10/24/2001	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF03A	8'-22.75'	01/21/2002	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF03A	8'-22.75'	06/16/2003	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF03A	8'-22.75'	12/08/2003	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF03A	8'-22.75'	05/10/2004	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF03A	8'-22.75'	11/01/2004	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF03A	6'-23'	05/02/2005	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF03A	8'-22.75'	10/31/2005	—	—	—	—	1 U	1 U	—	—	—
PL2-JF03A	8'-22.75'		—	1 U	—	—	—	—	—	—	—
Area 9											
GP-06601	13'	09/12/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06601	23'	09/12/1994	—	1 U	—	—	**12**	1 U	—	—	—
GP-06601	45'	09/12/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06602	14'	09/13/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06602	24'	09/13/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06602	45'	09/13/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06603	14'	09/12/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06603	24'	09/12/1994	—	1 U	—	—	**73**	1 U	—	—	—
GP-06603	45'	09/12/1994	—	1 U	—	—	**16**	1 U	—	—	—
GP-06604	14'	09/13/1994	—	5 U	—	—	5 U	5 U	—	—	—
GP-06604	24'	09/13/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06604	45'	09/13/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06633	15'	11/28/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06633	25'	11/28/1994	—	1 U	—	—	**1.1**	**4**	—	—	—
GP-06633	45'	11/28/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06633	65'	11/28/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06634	15'	11/22/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06634	25'	11/22/1994	—	1 U	—	—	**1.3**	1 U	—	—	—
GP-06634	45'	11/22/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06634	65'	11/22/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06636	15'	11/21/1994	—	1 U	—	—	**1.4 J**	1 U	—	—	—
GP-06636	25'	11/21/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06636	45'	11/21/1994	—	1 U	—	—	**9.4**	1 U	—	—	—
GP-06636	65'	11/21/1994	—	1 U	—	—	1 U	1 U	—	—	—
GP-06637	14'	03/15/1995	—	1 U	—	—	1 U	1 U	—	—	—
GP-06637	25'	03/15/1995	—	1 U	—	—	**1**	1 U	—	—	—

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
			CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
	GP-06637	45'	03/15/1995	—	1 U	—	—	1 U	1 U	—	—	—
	GP-06638	14'	03/16/1995	—	**1**	—	—	**1.1**	1 U	—	—	—
	GP-06638	25'	03/16/1995	—	1 U	—	—	1 U	1 U	—	—	—
	GP-06638	45'	03/16/1995	—	1 U	—	—	1 U	1 U	—	—	—
	GP-06639	14'	03/16/1995	—	1 U	—	—	**22**	1 U	—	—	—
	GP-06639	25'	03/16/1995	—	1 U	—	—	**2.6**	1 U	—	—	—
	GP-06639	45'	03/16/1995	—	1 U	—	—	**10**	1 U	—	—	—
*	GP-08901	14'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08901	24'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08902	14'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08902	24'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08903	14'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08903	24'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08904	14'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08904	24'	09/14/1994	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08905	14'	09/13/1994	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08905	24'	09/13/1994	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08908	14'	03/17/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08908	25'	03/17/1995	—	1 U	—	—	1 U	1 U	—	—	—
*	GP-08908	45'	03/17/1995	—	1 U	—	—	1 U	1 U	—	—	—
	GP-09101	15'	09/12/1994	—	1 U	—	—	1 U	1 U	—	—	—
	GP-09102	14'	09/08/1994	—	1 U	—	—	1 U	1 U	—	—	—
	GP-09103	14'	09/08/1994	—	1 U	—	—	1 U	1 U	—	—	—
	MW-5		03/02/1990	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
	MW-5	10'-20'	02/24/2009	—	5 U	—	—	—	—	—	—	—
	MW-5	10'-20'	05/21/2009	—	2 U	—	—	—	—	—	—	—
	MW-5	10'-20'	08/27/2009	—	5 U	—	—	—	—	—	—	—
	MW-5	10'-20'	12/11/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-23	6'-15.75'	09/10/1992	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-23	6'-15.75'	11/10/1993	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-23	6'-15.75'	12/29/2004	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-23	6'-15.75'	12/29/2004	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-23	6'-15.75'	01/31/2008	—	—	—	—	0.2 U	0.2 U	—	—	—
*	MW-23	6'-15.75'	02/26/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
*	MW-23	6'-15.75'	05/21/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
*	MW-23	6'-15.75'	08/27/2009	—	2000 U	—	—	2000 U	2000 U	—	—	—
*	MW-23	6'-15.75'	12/11/2009	—	1 U	—	—	1 U	1 U	—	—	—
*	MW-23		08/16/2017	—	5 U	—	—	2 U	2 U	—	—	—
*	MW-23		02/12/2018	—	1 U	—	—	1 U	1 U	—	—	—
*	MW-24	6'-19.75'	09/17/1992	—	0.2 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	11/10/1993	—	0.2 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	01/31/2008	—	0.2 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—
*	MW-24	6'-19.75'	05/20/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
*	MW-24	6'-19.75'	08/26/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
*	MW-24	6'-19.75'	12/10/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.1 J**	0.05 U	—	—	0.13 U
*	MW-24		08/25/2017	0.04 U	0.04 U	0.06 U	0.13 U	**0.13 J**	0.05 U	—	—	0.13 U
*	MW-24		02/09/2018	0.04 U	0.04 U	0.06 U	0.13 U	**0.09 J**	0.05 U	—	—	0.13 U
*	MW-49	23'-27'	02/13/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-49	5'-17'	02/26/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
*	MW-49	5'-17'	05/21/2009	—	—	—	—	0.2 U	0.2 U	—	—	—

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
		CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
* MW-49	5'-17'	08/27/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.08 J**	0.05 U	—	—	0.13 U
* MW-49	5'-17'	12/11/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
* MW-49		08/17/2017	—	0.2 U	—	—	**0.35**	0.2 U	—	—	—
* MW-49		02/09/2018	—	0.2 U	—	—	**0.44**	0.2 U	—	—	—
MW-50	23'-27'	02/24/2009	—	0.2 U	—	—	**0.33**	0.2 U	—	—	—
MW-50	23'-27'	05/21/2009	—	—	—	—	**0.31**	0.2 U	—	—	—
MW-50	23'-27'	08/27/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.05**	0.05 U	—	—	0.13 U
MW-50	23'-27'	12/11/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
MW-50		08/16/2017	—	0.2 U	—	—	**0.26**	0.2 U	—	—	—
MW-50		02/14/2018	—	0.2 U	—	—	**0.51**	0.2 U	—	—	—
MW-51	23'-27'	02/24/2009	—	0.2 U	—	—	**0.42**	0.2 U	—	—	—
MW-51	23'-27'	05/21/2009	—	—	—	—	**0.54**	0.2 U	—	—	—
MW-51	23'-27'	08/27/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.26**	0.05 U	—	—	0.13 U
MW-51	23'-27'	12/11/2009	0.04 U	0.04 U	0.06 U	0.13 U	**0.24**	0.05 U	—	—	0.13 U
MW-51		08/25/2017	0.04 U	0.04 U	0.06 U	0.13 U	**0.27**	0.05 U	—	—	0.13 U
MW-51		02/14/2018	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	—	—
MW-52	23'-27'	02/24/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
MW-52	23'-27'	05/21/2009	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	—	—
MW-52	23'-27'	08/27/2009	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
MW-52	23'-27'	12/11/2009	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
MW-52		08/18/2017	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
MW-52		08/18/2017	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
MW-52		02/06/2018	0.04 U	0.04 U	0.06 U	0.13 U	0.05 U	0.05 U	—	—	0.13 U
PL2-JF01A		03/10/1995	—	1 U	—	—	**19**	1 U	—	—	—
PL2-JF01A		09/27/1995	—	1 U	—	—	**11**	1 U	—	—	—
PL2-JF01A		11/17/1995	—	1 U	—	—	**6.4**	1 U	—	—	—
PL2-JF01A		03/01/1996	—	1 U	—	—	**1.2**	1 U	—	—	—
PL2-JF01A		05/23/1996	—	1 U	—	—	**10**	1 U	—	—	—
PL2-JF01A		08/26/1996	—	1 U	—	—	**8.4**	1 U	—	—	—
PL2-JF01A		11/21/1996	—	1 U	—	—	**6.8**	1 U	—	—	—
PL2-JF01AR	23'-27'	05/17/2001	—	5 U	—	—	5 U	5 U	—	—	—
PL2-JF01AR	23'-27'	07/25/2001	—	1 U	—	—	1 U	**1.1**	—	—	—
PL2-JF01AR	23'-27'	10/24/2001	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01AR	23'-27'	01/21/2002	—	5 U	—	—	5 U	**10**	—	—	—
PL2-JF01AR	23'-27'	06/16/2003	—	100 U	—	—	100 U	100 U	—	—	—
PL2-JF01AR	23'-27'	09/02/2003	—	25 U	—	—	25 U	25 U	—	—	—
PL2-JF01AR	23'-27'	12/08/2003	—	30 U	—	—	30 U	30 U	—	—	—
PL2-JF01AR	23'-27'	12/19/2003	—	5 U	—	—	5 U	5 U	—	—	—
PL2-JF01AR	23'-27'	02/02/2004	—	20 U	—	—	20 U	20 U	—	—	—
PL2-JF01AR	23'-27'	05/10/2004	—	50 U	—	—	50 U	50 U	—	—	—
PL2-JF01AR	23.2'-27'	08/02/2004	—	50 U	50 U	50 U	50 U	50 U	—	—	—
PL2-JF01AR	23.2'-27'	09/27/2004	—	50 U	50 U	50 U	50 U	50 U	—	—	—
PL2-JF01AR	23'-27'	11/01/2004	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01AR	23'-27'	02/01/2005	—	50 U	—	—	50 U	50 U	—	—	—
PL2-JF01AR	23'-27'	02/06/2005	—	10 U	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	05/02/2005	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01AR	23'-27'	08/01/2005	—	75 U	—	—	75 U	75 U	—	—	—
PL2-JF01AR	23'-27'	10/31/2005	—	10 U	—	—	10 U	10 U	—	—	—
PL2-JF01AR	23'-27'	02/06/2006	—	—	—	—	10 U	10 U	—	—	—
PL2-JF01AR	23'-27'	05/01/2006	—	15 U	—	—	15 U	15 U	—	—	—
PL2-JF01AR	23'-27'	07/31/2006	—	15 U	—	—	15 U	15 U	—	—	—

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
		CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
PL2-JF01AR	23.2'-27'	08/23/2006	—	25 U	25 U	25 U	25 U	25 U	—	—	—
PL2-JF01AR	23'-27'	11/06/2006	—	5 U	—	—	5 U	5 U	—	—	—
PL2-JF01AR	23'-27'	02/01/2007	—	3 U	—	—	3 U	3 U	—	—	—
PL2-JF01AR	23'-27'	05/02/2007	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01AR	23.2'-27'	08/01/2007	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01AR	23.2'-27'	11/12/2007	—	5 U	5 U	5 U	5 U	5 U	—	—	—
PL2-JF01AR	23'-27'	02/04/2008	—	—	—	—	5 U	5 U	—	—	—
PL2-JF01AR	23.2'-27'	05/12/2008	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01AR	23'-27'	08/04/2008	—	—	—	—	1 U	1 U	—	—	—
PL2-JF01AR	23.2'-27'	02/03/2009	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01AR	23'-27'	08/10/2009	—	—	—	—	1 U	1 U	—	—	—
PL2-JF01AR	23.2'-27'	02/08/2010	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01AR	23.2'-27'	08/03/2010	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01AR	23.2'-27'	01/31/2011	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF01AR	23.2'-27'	08/15/2011	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF01AR	23.2'-27'	02/06/2012	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—
PL2-JF01AR	23.2'-27'	08/06/2012	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—
PL2-JF01AR	23.2'-27'	01/07/2013	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—
PL2-JF01AR	23.2'-27'	08/06/2013	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—
PL2-JF01B	40'-50'	03/31/1995	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	09/27/1995	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	11/17/1995	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	03/01/1996	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	05/23/1996	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	08/26/1996	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	11/21/1996	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	04/26/2001	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	07/25/2001	—	2 U	—	—	**2.1**	2 U	—	—	—
PL2-JF01B	40'-50'	10/24/2001	—	1 U	—	—	**1.8**	1 U	—	—	—
PL2-JF01B	40'-50'	01/21/2002	—	1 U	—	—	**2**	1 U	—	—	—
PL2-JF01B	40'-50'	06/16/2003	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	09/02/2003	—	1 U	—	—	**1.6**	1 U	—	—	—
PL2-JF01B	40'-50'	12/08/2003	—	5 U	—	—	5 U	5 U	—	—	—
PL2-JF01B	40'-50'	12/19/2003	—	5 U	—	—	5 U	5 U	—	—	—
PL2-JF01B	40'-50'	02/02/2004	—	5 U	—	—	5 U	5 U	—	—	—
PL2-JF01B	40'-50'	05/10/2004	—	1 U	—	—	**1**	1 U	—	—	—
PL2-JF01B	40'-50'	09/27/2004	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF01B	40'-50'	11/01/2004	—	1 U	1 U	1 U	**1.2**	1 U	—	—	—
PL2-JF01B	40'-50'	02/01/2005	—	1 U	—	—	**1.1 J**	1 U	—	—	—
PL2-JF01B	40'-50'	02/06/2005	—	1 U	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	05/02/2005	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	08/01/2005	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	10/31/2005	—	1 U	—	—	**1.1**	1 U	—	—	—
PL2-JF01B	40'-50'	02/06/2006	—	—	—	—	**1.2**	1 U	—	—	—
PL2-JF01B	40'-50'	05/01/2006	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	07/31/2006	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	08/23/2006	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF01B	40'-50'	11/06/2006	—	0.2 U	—	—	**1**	0.2 U	—	—	—
PL2-JF01B	40'-50'	02/01/2007	—	0.2 U	—	—	**0.6**	0.2 U	—	—	—
PL2-JF01B	40'-50'	05/02/2007	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	08/01/2007	—	1 U	1 U	1 U	1 U	1 U	—	—	—

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
		CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
PL2-JF01B	40'-50'	11/12/2007	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	02/04/2008	—	—	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	05/12/2008	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	08/04/2008	—	—	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	02/03/2009	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	08/10/2009	—	—	—	—	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	02/08/2010	—	—	—	—	—	1 U	—	—	—
PL2-JF01B	40'-50'	08/03/2010	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	01/31/2011	—	0.2 U	0.2 U	0.2 U	**0.4**	0.2 U	—	—	—
PL2-JF01B	40'-50'	08/15/2011	—	0.2 U	0.2 U	0.2 U	**0.3**	0.2 U	—	—	—
PL2-JF01B	40'-50'	02/06/2012	—	0.5 U	0.2 U	0.2 U	**0.5**	0.2 U	—	—	—
PL2-JF01B	40'-50'	08/06/2012	—	0.5 U	0.2 U	0.2 U	**0.8**	0.2 U	—	—	—
PL2-JF01B	40'-50'	01/07/2013	—	0.5 U	0.2 U	0.2 U	**0.8**	0.2 U	—	—	—
PL2-JF01B	40'-50'	08/06/2013	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—
PL2-JF01C	74'-78'	05/17/2001	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	07/25/2001	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	10/24/2001	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	01/21/2002	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	06/16/2003	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	12/08/2003	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	12/19/2003	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
PL2-JF01C	74'-78'	05/10/2004	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	09/27/2004	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF01C	74'-78'	11/01/2004	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	02/01/2005	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	02/06/2005	—	1 U	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	05/02/2005	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	08/01/2005	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	10/31/2005	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	02/06/2006	—	—	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	05/01/2006	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	07/31/2006	—	2 U	2 U	2 U	2 U	2 U	—	—	—
PL2-JF01C	74'-78.5'	08/23/2006	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF01C	74'-78'	11/06/2006	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	02/01/2007	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF01C	74'-78'	05/02/2007	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	08/01/2007	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	11/12/2007	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	02/04/2008	—	—	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	05/12/2008	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	08/04/2008	—	—	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	02/03/2009	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	08/10/2009	—	—	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78'	02/08/2010	—	—	—	—	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	08/03/2010	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	01/31/2011	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF01C	74'-78.5'	08/15/2011	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF01C	74'-78.5'	02/06/2012	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—
PL2-JF01C	74'-78.5'	08/06/2012	—	2.5 U	1 U	1 U	2.5 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	01/07/2013	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—
PL2-JF01C	74'-78.5'	08/06/2013	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
		CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
PL2-JF02A	8'-22.75'	09/27/1995	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	11/17/1995	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	03/01/1996	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	05/23/1996	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	08/26/1996	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	11/21/1996	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	11/21/1996	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	04/26/2001	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	07/25/2001	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	10/24/2001	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	01/21/2002	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	06/16/2003	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	09/02/2003	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	12/08/2003	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	02/02/2004	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	05/10/2004	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	11/01/2004	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	02/01/2005	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	5.5'-23'	05/02/2005	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	08/01/2005	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	10/31/2005	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	02/06/2006	—	—	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	02/06/2006	—	1 U	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	02/06/2006	—	—	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	05/01/2006	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	07/31/2006	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
PL2-JF02A	5.5'-23'	08/23/2006	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF02A	8'-22.75'	11/06/2006	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
PL2-JF02A	8'-22.75'	02/01/2007	—	0.2 U	—	—	0.2 U	0.2 U	—	—	—
PL2-JF02A	8'-22.75'	05/02/2007	—	1 U	—	—	1 U	1 U	—	—	—
PL2-JF02A	5.5'-23'	08/01/2007	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF02A	5.5'-23'	11/12/2007	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	02/04/2008	—	—	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	08/04/2008	—	—	—	—	1 U	1 U	—	—	—
PL2-JF02A	5.5'-23'	02/03/2009	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	08/10/2009	—	—	—	—	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	02/08/2010	—	—	—	—	1 U	1 U	—	—	—
PL2-JF02A	5.5'-23'	08/03/2010	—	1 U	1 U	1 U	1 U	1 U	—	—	—
PL2-JF02A	5.5'-23'	01/31/2011	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF02A	5.5'-23'	08/15/2011	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
PL2-JF02A	5.5'-23'	02/06/2012	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—
PL2-JF02A	5.5'-23'	08/06/2012	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—
PL2-JF02A	5.5'-23'	01/07/2013	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—
PL2-JF02A	5.5'-23'	08/06/2013	—	0.5 U	0.2 U	0.2 U	0.5 U	0.2 U	—	—	—
PL2-JF04A	8'-18'	08/23/2006	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
T2B2	0-15'	01/13/2011	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
T2B3	0-15'	01/13/2011	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
T2B3	0-15'	01/13/2011	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
T2B4	0-15'	01/13/2011	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
T3B2	0-15'	01/14/2011	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
T3B3	0-15'	01/13/2011	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U
T3B4	0-24'	01/13/2011	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U

Table B-13A: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane
		CAS	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	563-58-6	87-61-6	96-18-4
WP-266-09	38'	08/04/1993	—	1 U	1 U	1 U	1 U	1 U	—	—	—

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
Area 1												
* GP-08901	14'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08901	24'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08902	14'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08902	24'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08903	14'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08903	24'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08904	14'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08904	24'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08905	14'	09/13/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08905	24'	09/13/1994	—	1 U	—	—	—	—	—	—	—	—
GP-08906	15'	11/29/1994	—	1 U	—	—	—	—	—	—	—	—
GP-08906	25'	11/29/1994	—	1 U	—	—	—	—	—	—	—	—
GP-08906	45'	11/29/1994	—	1 U	—	—	—	—	—	—	—	—
GP-08906	65'	11/29/1994	—	1 U	—	—	—	—	—	—	—	—
GP-08907	15'	11/28/1994	—	1 U	—	—	—	—	—	—	—	—
GP-08907	25'	11/28/1994	—	1 U	—	—	—	—	—	—	—	—
GP-08907	45'	11/28/1994	—	1 U	—	—	—	—	—	—	—	—
GP-08907	63'	11/29/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08908	14'	03/17/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-08908	25'	03/17/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-08908	45'	03/17/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-08908	25'	03/17/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-08908	45'	03/17/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09106	14'	03/14/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09106	25'	03/14/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09106	45'	03/14/1995	—	1 U	—	—	—	—	—	—	—	—
MW-9		08/17/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-22	6'-15.75'	09/17/1992	—	2 U	—	—	—	—	—	—	—	—
MW-22	6'-15.75'	04/13/1993	—	1 U	—	—	—	—	—	—	—	—
MW-22	6'-15.75'	11/10/1993	—	2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	09/10/1992	—	2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	11/10/1993	—	2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	12/29/2004	—	1 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	12/29/2004	—	—	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	01/31/2008	—	0.2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-23		08/16/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-23		02/12/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-24	6'-19.75'	09/17/1992	—	100 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	11/10/1993	—	2 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	01/31/2008	—	0.2 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	12/10/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-24		08/25/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-24		02/09/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-25	6'-19.75'	09/17/1992	—	2000 U	—	—	—	—	—	—	—	—

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
MW-25	6'-19.75'	04/13/1993	—	1 U	—	—	—	—	—	—	—	—
MW-25	6'-19.75'	11/10/1993	—	2 U	—	—	—	—	—	—	—	—
MW-25	6'-19.75'	12/29/2004	—	1 U	—	—	—	—	—	—	—	—
MW-25	6'-19.75'	01/31/2008	—	—	—	—	—	—	—	—	—	—
MW-25	6'-19.75'	02/26/2009	—	—	—	—	—	—	—	—	—	—
MW-25	6'-19.75'	05/20/2009	—	—	—	—	—	—	—	—	—	—
MW-25	6'-19.75'	08/26/2009	—	—	—	—	—	—	—	—	—	—
MW-25		08/23/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	**0.25 R**	—	—	0.06 U	—
MW-25		02/09/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-30		08/18/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-30		02/09/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-30		02/09/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-48		02/12/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-48		02/12/2009	—	—	—	—	—	—	—	—	—	—
MW-48	5'-17'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-48	5'-17'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-48	5'-17'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-48	5'-17'	12/10/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-48		08/16/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-49	23'-27'	02/13/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-49	5'-17'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-49	5'-17'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-49	5'-17'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-49	5'-17'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-49		08/17/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	**0.25 R**	—	—	0.06 U	—
* MW-49		02/09/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
Area 2												
MW-7		03/02/1990	—	0.5 U	0.5 U	—	—	5 U	—	—	—	—
MW-7	10'-20'	02/25/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-7		08/17/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-12	5'-20'	11/10/1993	—	—	—	—	—	—	—	—	—	—
MW-13	5'-20'	09/10/1992	—	—	—	—	—	—	—	—	—	—
MW-14	5'-20'	11/10/1993	—	—	—	—	—	—	—	—	—	—
MW-14	5'-20'	02/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-15	5'-20'	11/10/1993	—	—	—	—	—	—	—	—	—	—
MW-15		08/23/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-15		02/12/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-32	5'-15'	02/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-32		08/24/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-36		02/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-36		08/21/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-37	10'-25'	02/25/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-37	10'-25'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-37	10'-25'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-37	10'-25'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-37		08/17/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-37		02/09/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
Area 3												
MW-8	5'-20'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-8		08/17/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
Area 4												
MW-11	5'-20'	02/25/2009	—	0.2 U	—	—	—	—	—	—	—	—
Area 5												
MW-40	10'-25'	02/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-40	10'-25'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-40	10'-25'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-40	10'-25'	12/18/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-40		08/21/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-40		02/08/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-41	30'-40'	02/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-41	30'-40'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-41	30'-40'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-41	30'-40'	12/18/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-41		08/21/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-41		02/08/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	**0.25 R**	—	—	0.06 U	—
Area 6												
* GP-06635	15'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-06635	25'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-06635	45'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-06635	65'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06640	14'	03/15/1995	—	1 U	—	—	—	—	—	—	—	—
GP-06640	25'	03/15/1995	—	1 U	—	—	—	—	—	—	—	—
GP-06640	45'	03/15/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09104	15'	11/23/1994	—	1 U	—	—	—	—	—	—	—	—
GP-09104	25'	11/23/1994	—	1 U	—	—	—	—	—	—	—	—
GP-09104	45'	11/23/1994	—	1 U	—	—	—	—	—	—	—	—
GP-09105	15'	11/23/1994	—	1 U	—	—	—	—	—	—	—	—
GP-09105	25'	11/23/1994	—	**1.2**	—	—	—	—	—	—	—	—
GP-09105	45'	11/23/1994	—	1 U	—	—	—	—	—	—	—	—
GP-09107	14'	03/14/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09107	25'	03/14/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09107	45'	03/14/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09108	14'	03/14/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09108	25'	03/14/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09108	45'	03/14/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09109	14'	03/15/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09109	25'	03/15/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09109	45'	03/15/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09110	15'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09110	25'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09110	45'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09111	15'	09/20/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09111	25'	09/20/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09111	45'	09/20/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09112	15'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
			CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
	GP-09112	25'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
	GP-09112	45'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
*	GP-09113	15'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
*	GP-09113	25'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
*	GP-09113	45'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
*	GP-09114	15'	09/20/1995	—	1 U	—	—	—	—	—	—	—	—
*	GP-09114	25'	09/20/1995	—	1 U	—	—	—	—	—	—	—	—
*	GP-09114	45'	09/20/1995	—	1 U	—	—	—	—	—	—	—	—
*	GP-09115	15'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
*	GP-09115	25'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
*	GP-09115	45'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
*	MW-6		03/02/1990	—	0.5 U	0.5 U	—	—	5 U	—	—	—	—
*	MW-6		08/21/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-31	5'-19'	12/29/2004	—	1 U	—	—	—	—	—	—	—	—
	MW-31	5'-19'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-31		08/16/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	**0.25 R**	—	—	0.06 U	—
	MW-31		02/06/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-45	30'-40'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-45	30'-40'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-45	30'-40'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-45	30'-40'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-45		08/16/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-45		02/06/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-46	5'-20'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-46	5'-20'	05/21/2009	—	0.4 U	—	—	—	—	—	—	—	—
	MW-46	5'-20'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-46	5'-20'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-46		08/24/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-46		08/24/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-46		02/06/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
Area 7													
	MW-38	5'-20'	02/24/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-38	5'-20'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-38	5'-20'	08/25/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-38	5'-20'	12/10/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-38		08/16/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
*	MW-39	5'-20'	02/24/2009	—	0.2 U	—	—	—	—	—	—	—	—
*	MW-39	5'-20'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
*	MW-39	5'-20'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
*	MW-39	5'-20'	12/10/2009	—	0.2 U	—	—	—	—	—	—	—	—
*	MW-39		08/28/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
*	MW-39		02/13/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
*	MW-42	5'-20'	02/25/2009	—	0.2 U	—	—	—	—	—	—	—	—
*	MW-42	5'-20'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
*	MW-42	5'-20'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
*	MW-42	5'-20'	12/10/2009	—	0.2 U	—	—	—	—	—	—	—	—
*	MW-42		08/23/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
*	MW-42		02/14/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
*	MW-43	30'-40'	02/25/2009	—	**0.3**	—	—	—	—	—	—	—	—
*	MW-43	30'-40'	05/20/2009	—	**0.35**	—	—	—	—	—	—	—	—

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
* MW-43	30'-40'	08/26/2009	—	**0.51**	—	—	—	—	—	—	—	—
* MW-43	30'-40'	12/11/2009	—	**0.33**	—	—	—	—	—	—	—	—
* MW-43		08/24/2017	0.37 U	**0.3 J**	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-43		02/14/2018	0.37 U	**0.34**	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-44	50'-60'	02/25/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-44	50'-60'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-44	50'-60'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-44	50'-60'	12/18/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-44		08/23/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-44		02/14/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
Area 8												
* GP-06635	15'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-06635	25'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-06635	45'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-06635	65'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-09113	15'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-09113	25'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-09113	45'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-09114	15'	09/20/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-09114	25'	09/20/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-09114	45'	09/20/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-09115	15'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-09115	25'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-09115	45'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
* MW-6		03/02/1990	—	0.5 U	0.5 U	—	—	5 U	—	—	—	—
* MW-6		08/21/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-39	5'-20'	02/24/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-39	5'-20'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-39	5'-20'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-39	5'-20'	12/10/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-39		08/28/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-39		02/13/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-42	5'-20'	02/25/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-42	5'-20'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-42	5'-20'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-42	5'-20'	12/10/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-42		08/23/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-42		02/14/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-43	30'-40'	02/25/2009	—	**0.3**	—	—	—	—	—	—	—	—
* MW-43	30'-40'	05/20/2009	—	**0.35**	—	—	—	—	—	—	—	—
* MW-43	30'-40'	08/26/2009	—	**0.51**	—	—	—	—	—	—	—	—
* MW-43	30'-40'	12/11/2009	—	**0.33**	—	—	—	—	—	—	—	—
* MW-43		08/24/2017	0.37 U	**0.3 J**	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-43		02/14/2018	0.37 U	**0.34**	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-44	50'-60'	02/25/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-44	50'-60'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-44	50'-60'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-44	50'-60'	12/18/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-44		08/23/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-44		02/14/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
MW-47	5'-20'	02/25/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-47	5'-20'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-47	5'-20'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-47	5'-20'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-47		08/24/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
MW-47		02/12/2018	0.37 U	**0.18 J**	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
PL2-JF03A	8'-22.75'	09/28/1995	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	11/17/1995	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	03/01/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	05/23/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	08/26/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	11/21/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	04/26/2001	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	07/25/2001	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	10/24/2001	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	01/21/2002	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	06/16/2003	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	12/08/2003	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	05/10/2004	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'	11/01/2004	—	1 U	1 U	—	—	5 J	—	—	—	—
PL2-JF03A	6'-23'	05/02/2005	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF03A	8'-22.75'	10/31/2005	—	1 U	—	—	—	—	—	—	—	—
PL2-JF03A	8'-22.75'		—	—	—	—	—	—	—	—	—	—
Area 9												
GP-06601	13'	09/12/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06601	23'	09/12/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06601	45'	09/12/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06602	14'	09/13/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06602	24'	09/13/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06602	45'	09/13/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06603	14'	09/12/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06603	24'	09/12/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06603	45'	09/12/1994	—	**2**	—	—	—	—	—	—	—	—
GP-06604	14'	09/13/1994	—	5 U	—	—	—	—	—	—	—	—
GP-06604	24'	09/13/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06604	45'	09/13/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06633	15'	11/28/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06633	25'	11/28/1994	—	**2.3**	—	—	—	—	—	—	—	—
GP-06633	45'	11/28/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06633	65'	11/28/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06634	15'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06634	25'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06634	45'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06634	65'	11/22/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06636	15'	11/21/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06636	25'	11/21/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06636	45'	11/21/1994	—	**2.6**	—	—	—	—	—	—	—	—
GP-06636	65'	11/21/1994	—	1 U	—	—	—	—	—	—	—	—
GP-06637	14'	03/15/1995	—	1 U	—	—	—	—	—	—	—	—
GP-06637	25'	03/15/1995	—	1 U	—	—	—	—	—	—	—	—

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
GP-06637	45'	03/15/1995	—	1 U	—	—	—	—	—	—	—	—
GP-06638	14'	03/16/1995	—	1 U	—	—	—	—	—	—	—	—
GP-06638	25'	03/16/1995	—	1 U	—	—	—	—	—	—	—	—
GP-06638	45'	03/16/1995	—	1 U	—	—	—	—	—	—	—	—
GP-06639	14'	03/16/1995	—	1 U	—	—	—	—	—	—	—	—
GP-06639	25'	03/16/1995	—	1 U	—	—	—	—	—	—	—	—
GP-06639	45'	03/16/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-08901	14'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08901	24'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08902	14'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08902	24'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08903	14'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08903	24'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08904	14'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08904	24'	09/14/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08905	14'	09/13/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08905	24'	09/13/1994	—	1 U	—	—	—	—	—	—	—	—
* GP-08908	14'	03/17/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-08908	25'	03/17/1995	—	1 U	—	—	—	—	—	—	—	—
* GP-08908	45'	03/17/1995	—	1 U	—	—	—	—	—	—	—	—
GP-09101	15'	09/12/1994	—	1 U	—	—	—	—	—	—	—	—
GP-09102	14'	09/08/1994	—	1 U	—	—	—	—	—	—	—	—
GP-09103	14'	09/08/1994	—	1 U	—	—	—	—	—	—	—	—
MW-5		03/02/1990	—	12.5 U	12.5 U	—	—	125 U	—	—	—	—
MW-5	10'-20'	02/24/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-5	10'-20'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-5	10'-20'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
MW-5	10'-20'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	09/10/1992	—	2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	11/10/1993	—	2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	12/29/2004	—	1 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	12/29/2004	—	—	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	01/31/2008	—	0.2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-23		08/16/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-23		02/12/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-24	6'-19.75'	09/17/1992	—	100 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	11/10/1993	—	2 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	01/31/2008	—	0.2 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	05/20/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	08/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-24	6'-19.75'	12/10/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-24		08/25/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-24		02/09/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
* MW-49	23'-27'	02/13/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-49	5'-17'	02/26/2009	—	0.2 U	—	—	—	—	—	—	—	—
* MW-49	5'-17'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—	—

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
			CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
*	MW-49	5'-17'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
*	MW-49	5'-17'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
*	MW-49		08/17/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	**0.25 R**	—	—	0.06 U	—
*	MW-49		02/09/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-50	23'-27'	02/24/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-50	23'-27'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-50	23'-27'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-50	23'-27'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-50		08/16/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-50		02/14/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-51	23'-27'	02/24/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-51	23'-27'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-51	23'-27'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-51	23'-27'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-51		08/25/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-51		02/14/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-52	23'-27'	02/24/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-52	23'-27'	05/21/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-52	23'-27'	08/27/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-52	23'-27'	12/11/2009	—	0.2 U	—	—	—	—	—	—	—	—
	MW-52		08/18/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-52		08/18/2017	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	MW-52		02/06/2018	0.37 U	0.07 U	0.04 U	0.06 U	—	0.25 U	—	—	0.06 U	—
	PL2-JF01A		03/10/1995	—	1 U	—	—	—	—	—	—	—	—
	PL2-JF01A		09/27/1995	—	1 U	—	—	—	—	—	—	—	—
	PL2-JF01A		11/17/1995	—	1 U	—	—	—	—	—	—	—	—
	PL2-JF01A		03/01/1996	—	1 U	—	—	—	—	—	—	—	—
	PL2-JF01A		05/23/1996	—	1 U	—	—	—	—	—	—	—	—
	PL2-JF01A		08/26/1996	—	1 U	—	—	—	—	—	—	—	—
	PL2-JF01A		11/21/1996	—	1 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	05/17/2001	—	5 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	07/25/2001	—	1 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	10/24/2001	—	1 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	01/21/2002	—	5 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	06/16/2003	—	100 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	09/02/2003	—	25 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	12/08/2003	—	30 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	12/19/2003	—	5 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	02/02/2004	—	20 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	05/10/2004	—	50 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23.2'-27'	08/02/2004	—	50 U	50 U	—	—	250 U	—	—	—	—
	PL2-JF01AR	23.2'-27'	09/27/2004	—	50 U	50 U	—	—	250 U	—	—	—	—
	PL2-JF01AR	23'-27'	11/01/2004	—	1 U	1 U	—	—	5 U	—	—	—	—
	PL2-JF01AR	23'-27'	02/01/2005	—	50 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	02/06/2005	—	—	—	—	—	—	—	—	—	—
	PL2-JF01AR	23.2'-27'	05/02/2005	—	1 U	1 U	—	—	5 U	—	—	—	—
	PL2-JF01AR	23.2'-27'	05/02/2005	—	—	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	08/01/2005	—	75 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	10/31/2005	—	10 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	02/06/2006	—	10 U	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	05/01/2006	—	15 U	—	—	—	—	—	—	—	—

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
PL2-JF01AR	23'-27'	07/31/2006	—	15 U	—	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	08/23/2006	—	25 U	25 U	—	—	120 U	—	—	—	—
PL2-JF01AR	23'-27'	11/06/2006	—	5 U	—	—	—	—	—	—	—	—
PL2-JF01AR	23'-27'	02/01/2007	—	3 U	—	—	—	—	—	—	—	—
PL2-JF01AR	23'-27'	05/02/2007	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	08/01/2007	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01AR	23.2'-27'	11/12/2007	—	5 U	5 U	—	—	25 U	—	—	—	—
PL2-JF01AR	23'-27'	02/04/2008	—	5 U	—	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	05/12/2008	—	1 U	1 U	—	—	—	—	—	—	—
PL2-JF01AR	23'-27'	08/04/2008	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	02/03/2009	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01AR	23'-27'	08/10/2009	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	02/08/2010	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01AR	23.2'-27'	08/03/2010	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01AR	23.2'-27'	01/31/2011	—	0.2 U	0.2 U	—	—	1 U	—	—	—	—
PL2-JF01AR	23.2'-27'	08/15/2011	—	0.2 U	0.2 U	—	—	1 U	—	—	—	—
PL2-JF01AR	23.2'-27'	02/06/2012	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	08/06/2012	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	08/06/2012	—	—	—	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	01/07/2013	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	08/06/2013	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	03/31/1995	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	09/27/1995	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	03/31/1995	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	09/27/1995	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	11/17/1995	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	03/01/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	05/23/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	08/26/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	11/21/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	04/26/2001	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	07/25/2001	—	2 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	10/24/2001	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	01/21/2002	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	06/16/2003	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	09/02/2003	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	12/08/2003	—	5 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	12/19/2003	—	5 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	02/02/2004	—	5 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	05/10/2004	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	09/27/2004	—	0.2 U	0.2 U	—	—	0.5 U	—	—	—	—
PL2-JF01B	40'-50'	11/01/2004	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01B	40'-50'	02/01/2005	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	02/06/2005	—	—	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	05/02/2005	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01B	40'-50'	08/01/2005	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	10/31/2005	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	02/06/2006	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	05/01/2006	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	07/31/2006	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	08/23/2006	—	0.2 U	0.2 U	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	11/06/2006	—	0.2 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	02/01/2007	—	0.2 U	—	—	—	—	—	—	—	—

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
PL2-JF01B	40'-50'	05/02/2007	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	08/01/2007	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01B	40'-50'	11/12/2007	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01B	40'-50'	02/04/2008	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	05/12/2008	—	1 U	1 U	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	08/04/2008	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	02/03/2009	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01B	40'-50'	08/10/2009	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	02/08/2010	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	08/03/2010	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01B	40'-50'	01/31/2011	—	0.2 U	0.2 U	—	—	1 U	—	—	—	—
PL2-JF01B	40'-50'	08/15/2011	—	0.2 U	0.2 U	—	—	1 U	—	—	—	—
PL2-JF01B	40'-50'	02/06/2012	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	08/06/2012	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	01/07/2013	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	08/06/2013	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	05/17/2001	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	07/25/2001	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	10/24/2001	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	01/21/2002	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	06/16/2003	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	12/08/2003	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	12/19/2003	—	0.2 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	05/10/2004	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	09/27/2004	—	0.2 U	0.2 U	—	—	0.5 U	—	—	—	—
PL2-JF01C	74'-78'	11/01/2004	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01C	74'-78.5'	02/01/2005	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01C	74'-78'	02/06/2005	—	—	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	05/02/2005	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01C	74'-78.5'	08/01/2005	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01C	74'-78'	10/31/2005	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	02/06/2006	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	05/01/2006	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	07/31/2006	—	2 U	2 U	—	—	5 U	—	—	—	—
PL2-JF01C	74'-78.5'	08/23/2006	—	0.2 U	0.2 U	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	11/06/2006	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	02/01/2007	—	0.2 U	0.2 U	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	05/02/2007	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	08/01/2007	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01C	74'-78.5'	11/12/2007	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01C	74'-78'	02/04/2008	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	05/12/2008	—	1 U	1 U	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	08/04/2008	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	02/03/2009	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01C	74'-78'	08/10/2009	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78'	02/08/2010	—	1 U	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	08/03/2010	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF01C	74'-78.5'	01/31/2011	—	0.2 U	0.2 U	—	—	1 U	—	—	—	—
PL2-JF01C	74'-78.5'	08/15/2011	—	0.2 U	0.2 U	—	—	1 U	—	—	—	—
PL2-JF01C	74'-78.5'	02/06/2012	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	08/06/2012	—	1 U	2.5 U	—	—	—	—	—	—	—

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
PL2-JF01C	74'-78.5'	01/07/2013	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	08/06/2013	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	09/27/1995	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	11/17/1995	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	03/01/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	05/23/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	08/26/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	11/21/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	11/21/1996	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	04/26/2001	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	07/25/2001	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	10/24/2001	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	01/21/2002	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	06/16/2003	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	09/02/2003	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	12/08/2003	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	02/02/2004	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	05/10/2004	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	11/01/2004	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF02A	8'-22.75'	02/01/2005	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	5.5'-23'	05/02/2005	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF02A	8'-22.75'	08/01/2005	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	10/31/2005	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	02/06/2006	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	02/06/2006	—	—	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	05/01/2006	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	07/31/2006	—	0.2 U	—	—	—	—	—	—	—	—
PL2-JF02A	5.5'-23'	08/23/2006	—	0.2 U	0.2 U	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	11/06/2006	—	0.2 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	02/01/2007	—	0.2 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	05/02/2007	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	5.5'-23'	08/01/2007	—	1 U	1 U	—	—	—	—	—	—	—
PL2-JF02A	5.5'-23'	11/12/2007	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF02A	8'-22.75'	02/04/2008	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	08/04/2008	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	5.5'-23'	02/03/2009	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF02A	8'-22.75'	08/10/2009	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	8'-22.75'	02/08/2010	—	1 U	—	—	—	—	—	—	—	—
PL2-JF02A	5.5'-23'	08/03/2010	—	1 U	1 U	—	—	5 U	—	—	—	—
PL2-JF02A	5.5'-23'	01/31/2011	—	0.2 U	0.2 U	—	—	1 U	—	—	—	—
PL2-JF02A	5.5'-23'	08/15/2011	—	0.2 U	0.2 U	—	—	1 U	—	—	—	—
PL2-JF02A	5.5'-23'	02/06/2012	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF02A	5.5'-23'	08/06/2012	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF02A	5.5'-23'	01/07/2013	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF02A	5.5'-23'	08/06/2013	—	0.2 U	0.5 U	—	—	—	—	—	—	—
PL2-JF04A	8'-18'	08/23/2006	—	0.2 U	0.2 U	—	—	—	—	—	—	—
T2B2	0-15'	01/13/2011	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
T2B3	0-15'	01/13/2011	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
T2B3	0-15'	01/13/2011	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
T2B4	0-15'	01/13/2011	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
T3B2	0-15'	01/14/2011	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U

Table B-13B: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	1,2-Dibromo-3-chloropropane 96-12-8	1,2-Dichloroethane (EDC) 107-06-2	1,2-Dichloropropane 78-87-5	1,3-Dichloropropane 142-28-9	2,2-Dichloropropane 594-20-7	2-Chloroethyl vinyl ether 110-75-8	2-Chlorotoluene 95-49-8	4-Chlorotoluene 106-43-4	Bromobenzene 108-86-1	Bromochloromethane 74-97-5
T3B3	0-15'	01/13/2011	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
T3B4	0-24'	01/13/2011	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
WP-266-09	13'	08/02/1993	—	—	—	—	—	—	—	—	—	—
WP-266-09	18'	08/02/1993	—	—	—	—	—	—	—	—	—	—
WP-266-09	23'	08/02/1993	—	—	—	—	—	—	—	—	—	—
WP-266-09	28'	08/02/1993	—	—	—	—	—	—	—	—	—	—
WP-266-09	33'	08/02/1993	—	—	—	—	—	—	—	—	—	—
WP-266-09	38'	08/02/1993	—	—	—	—	—	—	—	—	—	—
WP-266-09	43'	08/02/1993	—	—	—	—	—	—	—	—	—	—
WP-266-09	48'	08/02/1993	—	—	—	—	—	—	—	—	—	—
WP-266-09	53'	08/02/1993	—	—	—	—	—	—	—	—	—	—
WP-266-09	58'	08/02/1993	—	—	—	—	—	—	—	—	—	—
WP-266-09	63'	08/02/1993	—	—	—	—	—	—	—	—	—	—
WP-266-09	38'	08/04/1993	—	1 U	1 U	—	—	1 U	—	—	—	—

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
				Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
Area 1														
*	GP-08901	14'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	**12**	—	—
*	GP-08901	24'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08902	14'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08902	24'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	**57**	—	—
*	GP-08903	14'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	**53**	—	—
*	GP-08903	24'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	**18**	—	—
*	GP-08904	14'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08904	24'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	**17**	—	—
*	GP-08905	14'	09/13/1994	—	—	—	—	1 U	2 U	1 U	2 U	**1.8**	—	—
*	GP-08905	24'	09/13/1994	—	—	—	—	1 U	2 U	1 U	2 U	**8.5**	—	—
	GP-08906	15'	11/29/1994	—	—	—	—	1 U	2 U	1 U	2 U	**1.1**	—	—
	GP-08906	25'	11/29/1994	—	—	—	—	1 U	2 U	1 U	2 U	**40**	—	—
	GP-08906	45'	11/29/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
	GP-08906	65'	11/29/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
	GP-08907	15'	11/28/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
	GP-08907	25'	11/28/1994	—	—	—	—	1 U	2 U	1 U	2 U	**60**	—	—
	GP-08907	45'	11/28/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
	GP-08907	63'	11/29/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08908	14'	03/17/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08908	25'	03/17/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08908	45'	03/17/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
	GP-09106	14'	03/14/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
	GP-09106	25'	03/14/1995	—	—	—	—	1 U	2 U	1 U	2 U	**58**	—	—
	GP-09106	45'	03/14/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
	MW-9		08/17/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
	MW-22	6'-15.75'	09/17/1992	—	—	—	—	2 U	2 U	2 U	2 U	—	—	—
	MW-22	6'-15.75'	04/13/1993	—	—	—	—	1 U	1 U	1 U	1 U	—	—	—
	MW-22	6'-15.75'	11/10/1993	—	—	—	—	2 U	10 U	2 U	10 U	5 U	—	—
*	MW-23	6'-15.75'	09/10/1992	—	—	—	—	2 U	2 U	2 U	2 U	—	—	—
*	MW-23	6'-15.75'	11/10/1993	—	—	—	—	2 U	10 U	2 U	10 U	5 U	—	—
*	MW-23	6'-15.75'	12/29/2004	—	—	—	—	—	—	—	—	**2.75**	—	—
*	MW-23	6'-15.75'	12/29/2004	—	—	—	—	1 U	1 U	1 U	1 U	—	—	—
*	MW-23	6'-15.75'	01/31/2008	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**8.3**	—	—
*	MW-23	6'-15.75'	02/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**6.6**	—	—
*	MW-23	6'-15.75'	05/21/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**7.5**	—	—
*	MW-23	6'-15.75'	08/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**5.7**	—	—
*	MW-23	6'-15.75'	12/11/2009	—	—	—	—	—	—	—	—	**6.9**	—	—
*	MW-23		08/16/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-23		02/12/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	**0.74**	0.06 U	0.05 U
*	MW-24	6'-19.75'	09/17/1992	—	—	—	—	100 U	100 U	**500**	100 U	—	—	—
*	MW-24	6'-19.75'	11/10/1993	—	—	—	—	2 U	10 U	2 U	10 U	5 U	—	—
*	MW-24	6'-19.75'	01/31/2008	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-24	6'-19.75'	02/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-24	6'-19.75'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-24	6'-19.75'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-24	6'-19.75'	12/10/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
*	MW-24		08/25/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-24		02/09/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	**0.16 J**	0.06 U	0.05 U
	MW-25	6'-19.75'	09/17/1992	—	—	—	—	2,000 U	2000 U	2,000 U	2,000 U	—	—	—
	MW-25	6'-19.75'	04/13/1993	—	—	—	—	1 U	1 U	1 U	1 U	—	—	—

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
				Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
	MW-25	6'-19.75'	11/10/1993	—	—	—	—	2 U	10 U	2 U	10 U	5 U	—	—
	MW-25	6'-19.75'	12/29/2004	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
	MW-25	6'-19.75'	01/31/2008	—	—	—	—	0.2 U	1 U	0.2 U	1 U	—	—	—
	MW-25	6'-19.75'	02/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	—	—	—
	MW-25	6'-19.75'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	—	—	—
	MW-25	6'-19.75'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	—	—	—
	MW-25		08/23/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.5 U	—	0.06 U	0.05 U
	MW-25		02/09/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
	MW-30		08/18/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	**0.11 J**	—	0.06 U	0.05 U
	MW-30		02/09/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
	MW-30		02/09/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
	MW-48		02/12/2009	—	—	—	—	0.2 U	1 U	**4.9**	1 U	—	—	—
	MW-48		02/12/2009	—	—	—	—	0.2 U	1 U	**4.7**	1 U	**0.37**	—	—
	MW-48	5'-17'	02/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-48	5'-17'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-48	5'-17'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-48	5'-17'	12/10/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
	MW-48		08/16/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-49	23'-27'	02/13/2009	—	—	—	—	0.2 U	1 U	**9.7**	1 U	**4.9**	—	—
*	MW-49	5'-17'	02/26/2009	—	—	—	—	0.2 U	1 U	**0.23**	1 U	**19**	—	—
*	MW-49	5'-17'	05/21/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**15**	—	—
*	MW-49	5'-17'	08/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**19**	—	—
*	MW-49	5'-17'	12/11/2009	—	—	—	—	—	—	—	—	**8**	—	—
*	MW-49		08/17/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-49		02/09/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.2 U	0.09 U	**3.46**	0.06 U	0.05 U
Area 2														
	MW-7		03/02/1990	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2**	0.5 U	—	—	0.5 U
	MW-7	10'-20'	02/25/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-7		08/17/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
	MW-12	5'-20'	11/10/1993	—	—	—	—	2 U	10 U	2 U	10 U	—	—	—
	MW-13	5'-20'	09/10/1992	—	—	—	—	2 U	2 U	2 U	2 U	—	—	—
	MW-14	5'-20'	11/10/1993	—	—	—	—	2 U	10 U	2 U	10 U	—	—	—
	MW-14	5'-20'	02/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-15	5'-20'	11/10/1993	—	—	—	—	2 U	10 U	2 U	10 U	—	—	—
	MW-15		08/23/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	**0.17 J**	0.5 U	—	0.06 U	0.05 U
	MW-15		02/12/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.2 U	0.09 U	0.04 U	0.06 U	0.05 U
	MW-32	5'-15'	02/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-32		08/24/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
	MW-36		02/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-36		08/21/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
	MW-37	10'-25'	02/25/2009	—	—	—	—	0.2 U	1 U	**1.1**	1 U	**0.3**	—	—
	MW-37	10'-25'	05/20/2009	—	—	—	—	0.2 U	1 U	**0.21**	1 U	**0.29**	—	—
	MW-37	10'-25'	08/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**0.34**	—	—
	MW-37	10'-25'	12/11/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
	MW-37		08/17/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
	MW-37		02/09/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
Area 3														
	MW-8	5'-20'	02/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-8		08/17/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
			Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
		CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
Area 4													
MW-11	5'-20'	02/25/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
Area 5													
MW-40	10'-25'	02/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
MW-40	10'-25'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
MW-40	10'-25'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
MW-40	10'-25'	12/18/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
MW-40		08/21/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	**0.19 J**	—	0.06 U	0.05 U
MW-40		02/08/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
MW-41	30'-40'	02/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**1.2**	—	—
MW-41	30'-40'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**1.1**	—	—
MW-41	30'-40'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**1.4**	—	—
MW-41	30'-40'	12/18/2009	—	—	—	—	—	—	—	—	**0.85**	—	—
MW-41		08/21/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
MW-41		02/08/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	**0.13 J**	0.06 U	0.05 U
Area 6													
* GP-06635	15'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
* GP-06635	25'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
* GP-06635	45'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
* GP-06635	65'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06640	14'	03/15/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06640	25'	03/15/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06640	45'	03/15/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09104	15'	11/23/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09104	25'	11/23/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09104	45'	11/23/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09105	15'	11/23/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09105	25'	11/23/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09105	45'	11/23/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09107	14'	03/14/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09107	25'	03/14/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09107	45'	03/14/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09108	14'	03/14/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09108	25'	03/14/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09108	45'	03/14/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09109	14'	03/15/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09109	25'	03/15/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09109	45'	03/15/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09110	15'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09110	25'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09110	45'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09111	15'	09/20/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09111	25'	09/20/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09111	45'	09/20/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09112	15'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09112	25'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-09112	45'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
* GP-09113	15'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
* GP-09113	25'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
* GP-09113	45'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
				Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
*	GP-09114	15'	09/20/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09114	25'	09/20/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09114	45'	09/20/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09115	15'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09115	25'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09115	45'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	MW-6		03/02/1990	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	—	0.5 U
*	MW-6		08/21/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
	MW-31	5'-19'	12/29/2004	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
	MW-31	5'-19'	02/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-31		08/16/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.5 U	—	0.06 U	0.05 U
	MW-31		02/06/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	**0.1 J**	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
	MW-45	30'-40'	02/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**1.1**	—	—
	MW-45	30'-40'	05/21/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**0.26**	—	—
	MW-45	30'-40'	08/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-45	30'-40'	12/11/2009	—	—	—	—	—	—	—	—	**0.21**	—	—
	MW-45		08/16/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
	MW-45		02/06/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	**0.08 J**	0.06 U	0.05 U
	MW-46	5'-20'	02/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-46	5'-20'	05/21/2009	—	—	—	—	0.4 U	2 U	0.4 U	2 U	0.4 U	—	—
	MW-46	5'-20'	08/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-46	5'-20'	12/11/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
	MW-46		08/24/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
	MW-46		08/24/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	**0.13 J**	0.03 U	0.09 U	—	0.06 U	0.05 U
	MW-46		02/06/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
Area 7														
	MW-38	5'-20'	02/24/2009	—	—	—	—	0.2 U	1 U	**0.22**	1 U	0.2 U	—	—
	MW-38	5'-20'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-38	5'-20'	08/25/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-38	5'-20'	12/10/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
	MW-38		08/16/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-39	5'-20'	02/24/2009	—	—	—	—	0.2 U	1 U	**0.28**	1 U	0.2 U	—	—
*	MW-39	5'-20'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-39	5'-20'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-39	5'-20'	12/10/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
*	MW-39		08/28/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-39		02/13/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.2 U	0.09 U	0.04 U	0.06 U	0.05 U
*	MW-42	5'-20'	02/25/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-42	5'-20'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-42	5'-20'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-42	5'-20'	12/10/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
*	MW-42		08/23/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-42		02/14/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
*	MW-43	30'-40'	02/25/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-43	30'-40'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-43	30'-40'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-43	30'-40'	12/11/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
*	MW-43		08/24/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-43		02/14/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
*	MW-44	50'-60'	02/25/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
				Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
*	MW-44	50'-60'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-44	50'-60'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-44	50'-60'	12/18/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
*	MW-44		08/23/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	**0.11 J**	0.5 U	—	0.06 U	0.05 U
*	MW-44		02/14/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
Area 8														
*	GP-06635	15'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-06635	25'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-06635	45'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-06635	65'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09113	15'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09113	25'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09113	45'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09114	15'	09/20/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09114	25'	09/20/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09114	45'	09/20/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09115	15'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09115	25'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-09115	45'	09/19/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	MW-6		03/02/1990	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	—	0.5 U
*	MW-6		08/21/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-39	5'-20'	02/24/2009	—	—	—	—	0.2 U	1 U	**0.28**	1 U	0.2 U	—	—
*	MW-39	5'-20'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-39	5'-20'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-39	5'-20'	12/10/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
*	MW-39		08/28/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-39		02/13/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.2 U	0.09 U	0.04 U	0.06 U	0.05 U
*	MW-42	5'-20'	02/25/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-42	5'-20'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-42	5'-20'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-42	5'-20'	12/10/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
*	MW-42		08/23/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-42		02/14/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
*	MW-43	30'-40'	02/25/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-43	30'-40'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-43	30'-40'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-43	30'-40'	12/11/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
*	MW-43		08/24/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-43		02/14/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
*	MW-44	50'-60'	02/25/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-44	50'-60'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-44	50'-60'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-44	50'-60'	12/18/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
*	MW-44		08/23/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	**0.11 J**	0.5 U	—	0.06 U	0.05 U
*	MW-44		02/14/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
	MW-47	5'-20'	02/25/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**0.22**	—	—
	MW-47	5'-20'	05/21/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-47	5'-20'	08/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**0.22**	—	—
	MW-47	5'-20'	12/11/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
	MW-47		08/24/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
			Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
		CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
MW-47		02/12/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	**0.08 J**	0.06 U	0.05 U
PL2-JF03A	8'-22.75'	09/28/1995	—	—	—	—	1 U	**3.3**	1 U	2 U	1 U	—	—
PL2-JF03A	8'-22.75'	11/17/1995	—	—	—	—	1 U	**2.4**	1 U	2 U	1 U	—	—
PL2-JF03A	8'-22.75'	03/01/1996	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF03A	8'-22.75'	05/23/1996	—	—	—	—	1 U	**1.6 J**	1 U	2 U	1 U	—	—
PL2-JF03A	8'-22.75'	08/26/1996	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF03A	8'-22.75'	11/21/1996	—	—	—	—	1 U	**2**	1 U	2 U	1 U	—	—
PL2-JF03A	8'-22.75'	04/26/2001	—	—	—	—	1 U	**1.6 J**	1 U	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	07/25/2001	—	—	—	—	1 U	**1.8**	1 U	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	10/24/2001	—	—	—	—	1 U	**1.5**	1 U	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	01/21/2002	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	06/16/2003	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	12/08/2003	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	05/10/2004	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	11/01/2004	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF03A	6'-23'	05/02/2005	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF03A	8'-22.75'	10/31/2005	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF03A	8'-22.75'		—	—	—	—	1 U	1 U	1 U	1 U	—	—	—
Area 9													
GP-06601	13'	09/12/1994	—	—	—	—	1 U	2 U	1 U	2 U	**2.5**	—	—
GP-06601	23'	09/12/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06601	45'	09/12/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06602	14'	09/13/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06602	24'	09/13/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06602	45'	09/13/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06603	14'	09/12/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06603	24'	09/12/1994	—	—	—	—	1 U	**17**	1 U	2 U	**5.6**	—	—
GP-06603	45'	09/12/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06604	14'	09/13/1994	—	—	—	—	5 U	10 U	5 U	10 U	5 U	—	—
GP-06604	24'	09/13/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06604	45'	09/13/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06633	15'	11/28/1994	—	—	—	—	1 U	2 U	1 U	2 U	**24**	—	—
GP-06633	25'	11/28/1994	—	—	—	—	1 U	2 U	1 U	2 U	**7,600 J**	—	—
GP-06633	45'	11/28/1994	—	—	—	—	1 U	2 U	1 U	2 U	**2.2 J**	—	—
GP-06633	65'	11/28/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06634	15'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	**33**	—	—
GP-06634	25'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	**13**	—	—
GP-06634	45'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06634	65'	11/22/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06636	15'	11/21/1994	—	—	—	—	1 U	**11 J**	1 U	2 U	1 U	—	—
GP-06636	25'	11/21/1994	—	—	—	—	1 U	2 U	1 U	2 U	**54**	—	—
GP-06636	45'	11/21/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06636	65'	11/21/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06637	14'	03/15/1995	—	—	—	—	1 U	2 U	**1.6**	2 U	**3.6**	—	—
GP-06637	25'	03/15/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06637	45'	03/15/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06638	14'	03/16/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06638	25'	03/16/1995	—	—	—	—	1 U	2 U	1 U	2 U	**1.3**	—	—
GP-06638	45'	03/16/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
GP-06639	14'	03/16/1995	—	—	—	—	1 U	**200**	1 U	2 U	**3.1**	—	—
GP-06639	25'	03/16/1995	—	—	—	—	1 U	2 U	1 U	2 U	**2.7**	—	—

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
				Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
	GP-06639	45'	03/16/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08901	14'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	**12**	—	—
*	GP-08901	24'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08902	14'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08902	24'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	**57**	—	—
*	GP-08903	14'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	**53**	—	—
*	GP-08903	24'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	**18**	—	—
*	GP-08904	14'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08904	24'	09/14/1994	—	—	—	—	1 U	2 U	1 U	2 U	**17**	—	—
*	GP-08905	14'	09/13/1994	—	—	—	—	1 U	2 U	1 U	2 U	**1.8**	—	—
*	GP-08905	24'	09/13/1994	—	—	—	—	1 U	2 U	1 U	2 U	**8.5**	—	—
*	GP-08908	14'	03/17/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08908	25'	03/17/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
*	GP-08908	45'	03/17/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
	GP-09101	15'	09/12/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
	GP-09102	14'	09/08/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
	GP-09103	14'	09/08/1994	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
	MW-5		03/02/1990	—	12.5 U	12.5 U	12.5 U	**14**	**5400**	12.5 U	12.5 U	—	—	12.5 U
	MW-5	10'-20'	02/24/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-5	10'-20'	05/21/2009	—	—	—	—	**7.8**	1 U	0.2 U	1 U	0.2 U	—	—
	MW-5	10'-20'	08/27/2009	—	—	—	—	**11**	1 U	0.2 U	1 U	0.2 U	—	—
	MW-5	10'-20'	12/11/2009	—	—	—	—	—	—	—	—	**0.31**	—	—
*	MW-23	6'-15.75'	09/10/1992	—	—	—	—	2 U	2 U	2 U	2 U	—	—	—
*	MW-23	6'-15.75'	11/10/1993	—	—	—	—	2 U	10 U	2 U	10 U	5 U	—	—
*	MW-23	6'-15.75'	12/29/2004	—	—	—	—	—	—	—	—	**2.75**	—	—
*	MW-23	6'-15.75'	12/29/2004	—	—	—	—	1 U	1 U	1 U	1 U	—	—	—
*	MW-23	6'-15.75'	01/31/2008	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**8.3**	—	—
*	MW-23	6'-15.75'	02/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**6.6**	—	—
*	MW-23	6'-15.75'	05/21/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**7.5**	—	—
*	MW-23	6'-15.75'	08/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**5.7**	—	—
*	MW-23	6'-15.75'	12/11/2009	—	—	—	—	—	—	—	—	**6.9**	—	—
*	MW-23		08/16/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-23		02/12/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	**0.74**	0.06 U	0.05 U
*	MW-24	6'-19.75'	09/17/1992	—	—	—	—	100 U	100 U	**500**	100 U	—	—	—
*	MW-24	6'-19.75'	11/10/1993	—	—	—	—	2 U	10 U	2 U	10 U	5 U	—	—
*	MW-24	6'-19.75'	01/31/2008	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-24	6'-19.75'	02/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-24	6'-19.75'	05/20/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-24	6'-19.75'	08/26/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
*	MW-24	6'-19.75'	12/10/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
*	MW-24		08/25/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-24		02/09/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	**0.16 J**	0.06 U	0.05 U
*	MW-49	23'-27'	02/13/2009	—	—	—	—	0.2 U	1 U	**9.7**	1 U	**4.9**	—	—
*	MW-49	5'-17'	02/26/2009	—	—	—	—	0.2 U	1 U	**0.23**	1 U	**19**	—	—
*	MW-49	5'-17'	05/21/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**15**	—	—
*	MW-49	5'-17'	08/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**19**	—	—
*	MW-49	5'-17'	12/11/2009	—	—	—	—	—	—	—	—	**8**	—	—
*	MW-49		08/17/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
*	MW-49		02/09/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.2 U	0.09 U	**3.46**	0.06 U	0.05 U
	MW-50	23'-27'	02/24/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
	MW-50	23'-27'	05/21/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
			Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
		CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
MW-50	23'-27'	08/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	0.2 U	—	—
MW-50	23'-27'	12/11/2009	—	—	—	—	—	—	—	—	0.2 U	—	—
MW-50		08/16/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
MW-50		02/14/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
MW-51	23'-27'	02/24/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**0.49**	—	—
MW-51	23'-27'	05/21/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**0.39**	—	—
MW-51	23'-27'	08/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**0.48**	—	—
MW-51	23'-27'	12/11/2009	—	—	—	—	—	—	—	—	**0.77**	—	—
MW-51		08/25/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
MW-51		02/14/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	0.04 U	0.06 U	0.05 U
MW-52	23'-27'	02/24/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**1.5**	—	—
MW-52	23'-27'	05/21/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**2.4**	—	—
MW-52	23'-27'	08/27/2009	—	—	—	—	0.2 U	1 U	0.2 U	1 U	**2.1**	—	—
MW-52	23'-27'	12/11/2009	—	—	—	—	—	—	—	—	**2.3**	—	—
MW-52		08/18/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	**0.12 J**	—	0.06 U	0.05 U
MW-52		08/18/2017	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	—	0.06 U	0.05 U
MW-52		02/06/2018	—	0.06 U	0.25 U	0.04 U	0.02 U	0.09 U	0.03 U	0.09 U	**3.65**	0.06 U	0.05 U
PL2-JF01A		03/10/1995	—	—	—	—	**27**	2 U	1 U	2 U	1 U	—	—
PL2-JF01A		09/27/1995	—	—	—	—	**23**	2 U	1 U	2 U	1 U	—	—
PL2-JF01A		11/17/1995	—	—	—	—	**12**	2 U	1 U	2 U	**2.1**	—	—
PL2-JF01A		03/01/1996	—	—	—	—	**1.7**	2 U	**1**	2 U	**3.1**	—	—
PL2-JF01A		05/23/1996	—	—	—	—	**12**	**1.6 J**	1 U	2 U	1 U	—	—
PL2-JF01A		08/26/1996	—	—	—	—	**13**	**2.2**	1 U	2 U	1 U	—	—
PL2-JF01A		11/21/1996	—	—	—	—	**6.8**	**3.5**	1 U	2 U	1 U	—	—
PL2-JF01AR	23'-27'	05/17/2001	—	—	—	—	5 U	5 U	5 U	5 U	**850**	—	—
PL2-JF01AR	23'-27'	07/25/2001	—	—	—	—	**4.4**	1 U	1 U	1 U	**3,100**	—	—
PL2-JF01AR	23'-27'	10/24/2001	—	—	—	—	**1.4**	1 U	1 U	2.1 U	**240**	—	—
PL2-JF01AR	23'-27'	01/21/2002	—	—	—	—	**41**	5 U	5 U	**48**	**26,000**	—	—
PL2-JF01AR	23'-27'	06/16/2003	—	—	—	—	100 U	100 U	100 U	100 U	**3,000**	—	—
PL2-JF01AR	23'-27'	09/02/2003	—	—	—	—	25 U	25 U	25 U	25 U	**260**	—	—
PL2-JF01AR	23'-27'	12/08/2003	—	—	—	—	30 U	30 U	30 U	30 U	**300**	—	—
PL2-JF01AR	23'-27'	12/19/2003	—	—	—	—	20 U	20 U	20 U	20 U	**510 J**	—	—
PL2-JF01AR	23'-27'	02/02/2004	—	—	—	—	**25**	20 U	20 U	20 U	**4,000**	—	—
PL2-JF01AR	23'-27'	05/10/2004	—	—	—	—	50 U	50 U	50 U	50 U	**3,600**	—	—
PL2-JF01AR	23.2'-27'	08/02/2004	—	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**2,200**	50 U	50 U
PL2-JF01AR	23.2'-27'	09/27/2004	—	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**820 J**	50 U	50 U
PL2-JF01AR	23'-27'	11/01/2004	—	1 U	1 U	1 U	**11**	1 U	1 U	1 U	**280**	1 U	1 U
PL2-JF01AR	23'-27'	02/01/2005	—	—	—	—	50 U	50 U	50 U	50 U	**280 J**	—	—
PL2-JF01AR	23'-27'	02/06/2005	—	—	—	—	**11**	10 U	10 U	10 U	—	—	—
PL2-JF01AR	23.2'-27'	05/02/2005	—	1 U	1 U	1 U	**13**	1 U	1 U	1 U	—	1 U	1 U
PL2-JF01AR	23.2'-27'	05/02/2005	—	—	—	—	—	—	—	—	**120**	—	—
PL2-JF01AR	23'-27'	08/01/2005	—	—	—	—	75 U	75 U	75 U	75 U	**520**	—	—
PL2-JF01AR	23'-27'	10/31/2005	—	—	—	—	**28**	10 U	10 U	10 U	10 U	—	—
PL2-JF01AR	23'-27'	02/06/2006	—	—	—	—	—	—	—	—	**28**	—	—
PL2-JF01AR	23'-27'	05/01/2006	—	—	—	—	**35**	15 U	15 U	15 U	**910**	—	—
PL2-JF01AR	23'-27'	07/31/2006	—	—	—	—	**22**	15 U	15 U	15 U	15 U	—	—
PL2-JF01AR	23.2'-27'	08/23/2006	—	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
PL2-JF01AR	23'-27'	11/06/2006	—	—	—	—	**25**	5 U	5 U	5 U	5 U	—	—
PL2-JF01AR	23'-27'	02/01/2007	—	—	—	—	**36**	3 U	3 U	3 U	**900**	—	—
PL2-JF01AR	23'-27'	05/02/2007	—	—	—	—	**47**	1 U	1 U	1 U	**1,100**	—	—
PL2-JF01AR	23.2'-27'	08/01/2007	—	1 U	1 U	1 U	**13**	1 U	1 U	1 U	**18**	1 U	1 U

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
			Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
		CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
PL2-JF01AR	23.2'-27'	11/12/2007	—	5 U	5 U	5 U	**23**	5 U	5 U	5 U	5 U	5 U	5 U
PL2-JF01AR	23'-27'	02/04/2008	—	—	—	—	—	—	—	—	**14**	—	—
PL2-JF01AR	23.2'-27'	05/12/2008	—	1 U	1 U	1 U	**28**	1 U	1 U	1 U	**8.1**	1 U	1 U
PL2-JF01AR	23'-27'	08/04/2008	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF01AR	23.2'-27'	02/03/2009	—	1 U	1 U	1 U	**8.4**	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01AR	23'-27'	08/10/2009	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF01AR	23.2'-27'	02/08/2010	—	1 U	1 U	1 U	**36**	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01AR	23.2'-27'	08/03/2010	—	1 U	1 U	1 U	**36**	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01AR	23.2'-27'	01/31/2011	—	0.2 U	1 U	0.2 U	**37**	0.2 U	0.2 U	0.5 U	**0.5**	0.2 U	0.2 U
PL2-JF01AR	23.2'-27'	08/15/2011	—	0.2 U	1 U	0.2 U	**28**	0.2 U	0.2 U	0.5 U	**0.5**	0.2 U	0.2 U
PL2-JF01AR	23.2'-27'	02/06/2012	—	0.5 U	0.5 U	0.2 U	**12**	0.5 U	0.2 U	0.5 U	**0.6**	0.2 U	0.5 U
PL2-JF01AR	23.2'-27'	08/06/2012	—	0.5 U	0.5 U	0.2 U	**5.1**	0.5 U	0.2 U	0.5 U	**0.4**	0.2 U	0.5 U
PL2-JF01AR	23.2'-27'	01/07/2013	—	0.5 U	0.5 U	0.2 U	**5.2**	0.5 U	0.2 U	0.5 U	**0.4**	0.2 U	0.5 U
PL2-JF01AR	23.2'-27'	08/06/2013	—	0.5 U	0.5 U	0.2 U	**18**	0.5 U	0.2 U	0.5 U	**0.6**	0.2 U	0.5 U
PL2-JF01B	40'-50'	03/31/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF01B	40'-50'	09/27/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF01B	40'-50'	11/17/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF01B	40'-50'	03/01/1996	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF01B	40'-50'	05/23/1996	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF01B	40'-50'	08/26/1996	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF01B	40'-50'	11/21/1996	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF01B	40'-50'	04/26/2001	—	—	—	—	1 U	1 U	1 U	1 U	**68**	—	—
PL2-JF01B	40'-50'	07/25/2001	—	—	—	—	2 U	2 U	2 U	2 U	**170**	—	—
PL2-JF01B	40'-50'	10/24/2001	—	—	—	—	1 U	1 U	1 U	1 U	**150**	—	—
PL2-JF01B	40'-50'	01/21/2002	—	—	—	—	1 U	1 U	1 U	1 U	**100**	—	—
PL2-JF01B	40'-50'	06/16/2003	—	—	—	—	1 U	1 U	1 U	1 U	**38**	—	—
PL2-JF01B	40'-50'	09/02/2003	—	—	—	—	1 U	1 U	1 U	1 U	**540**	—	—
PL2-JF01B	40'-50'	12/08/2003	—	—	—	—	5 U	5 U	5 U	5 U	**460**	—	—
PL2-JF01B	40'-50'	12/19/2003	—	—	—	—	5 U	5 U	5 U	5 U	**380**	—	—
PL2-JF01B	40'-50'	02/02/2004	—	—	—	—	5 U	5 U	5 U	5 U	**220**	—	—
PL2-JF01B	40'-50'	05/10/2004	—	—	—	—	1 U	1 U	1 U	1 U	**130**	—	—
PL2-JF01B	40'-50'	09/27/2004	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**2.7 J**	0.2 U	0.2 U
PL2-JF01B	40'-50'	11/01/2004	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**81**	1 U	1 U
PL2-JF01B	40'-50'	02/01/2005	—	—	—	—	1 U	1 U	1 U	1 U	**41 J**	—	—
PL2-JF01B	40'-50'	02/06/2005	—	—	—	—	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01B	40'-50'	05/02/2005	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**16**	1 U	1 U
PL2-JF01B	40'-50'	08/01/2005	—	—	—	—	1 U	1 U	1 U	1 U	**7.1**	—	—
PL2-JF01B	40'-50'	10/31/2005	—	—	—	—	1 U	1 U	1 U	1 U	**6.9**	—	—
PL2-JF01B	40'-50'	02/06/2006	—	—	—	—	—	—	—	—	**9.2**	—	—
PL2-JF01B	40'-50'	05/01/2006	—	—	—	—	1 U	1 U	1 U	1 U	**3.7**	—	—
PL2-JF01B	40'-50'	07/31/2006	—	—	—	—	1 U	1 U	1 U	1 U	**4.1**	—	—
PL2-JF01B	40'-50'	08/23/2006	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2**	0.2 U	0.2 U
PL2-JF01B	40'-50'	11/06/2006	—	—	—	—	0.2 U	0.2 U	0.2 U	0.2 U	**1.3**	—	—
PL2-JF01B	40'-50'	02/01/2007	—	—	—	—	0.2 U	0.2 U	0.2 U	0.2 U	**2.7**	—	—
PL2-JF01B	40'-50'	05/02/2007	—	—	—	—	1 U	1 U	1 U	1 U	**1.1**	—	—
PL2-JF01B	40'-50'	08/01/2007	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01B	40'-50'	11/12/2007	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01B	40'-50'	02/04/2008	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF01B	40'-50'	05/12/2008	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01B	40'-50'	08/04/2008	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF01B	40'-50'	02/03/2009	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
			Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
		CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
PL2-JF01B	40'-50'	08/10/2009	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF01B	40'-50'	02/08/2010	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF01B	40'-50'	08/03/2010	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01B	40'-50'	01/31/2011	—	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	**0.7**	0.2 U	0.2 U
PL2-JF01B	40'-50'	08/15/2011	—	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U
PL2-JF01B	40'-50'	02/06/2012	—	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
PL2-JF01B	40'-50'	08/06/2012	—	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
PL2-JF01B	40'-50'	01/07/2013	—	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
PL2-JF01B	40'-50'	08/06/2013	—	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
PL2-JF01C	74'-78'	05/17/2001	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF01C	74'-78'	07/25/2001	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF01C	74'-78'	10/24/2001	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF01C	74'-78'	01/21/2002	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF01C	74'-78'	06/16/2003	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF01C	74'-78'	12/08/2003	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF01C	74'-78'	12/19/2003	—	—	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—
PL2-JF01C	74'-78'	05/10/2004	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF01C	74'-78.5'	09/27/2004	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**1.7 J**	0.2 U	0.2 U
PL2-JF01C	74'-78'	11/01/2004	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01C	74'-78.5'	02/01/2005	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01C	74'-78'	02/06/2005	—	—	—	—	1 U	1 U	1 U	1 U	—	—	—
PL2-JF01C	74'-78.5'	05/02/2005	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01C	74'-78.5'	08/01/2005	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01C	74'-78'	10/31/2005	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF01C	74'-78'	02/06/2006	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF01C	74'-78'	05/01/2006	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF01C	74'-78.5'	07/31/2006	—	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
PL2-JF01C	74'-78.5'	08/23/2006	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.2 J**	0.2 U	0.2 U
PL2-JF01C	74'-78'	11/06/2006	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF01C	74'-78.5'	02/01/2007	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PL2-JF01C	74'-78'	05/02/2007	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF01C	74'-78.5'	08/01/2007	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01C	74'-78.5'	11/12/2007	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01C	74'-78'	02/04/2008	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF01C	74'-78.5'	05/12/2008	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01C	74'-78'	08/04/2008	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF01C	74'-78.5'	02/03/2009	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01C	74'-78'	08/10/2009	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF01C	74'-78'	02/08/2010	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF01C	74'-78.5'	08/03/2010	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF01C	74'-78.5'	01/31/2011	—	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U
PL2-JF01C	74'-78.5'	08/15/2011	—	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U
PL2-JF01C	74'-78.5'	02/06/2012	—	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
PL2-JF01C	74'-78.5'	08/06/2012	—	2.5 U	2.5 U	1 U	2.5 U	2.5 U	1 U	2.5 U	1 U	1 U	2.5 U
PL2-JF01C	74'-78.5'	01/07/2013	—	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
PL2-JF01C	74'-78.5'	08/06/2013	—	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
PL2-JF02A	8'-22.75'	09/27/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF02A	8'-22.75'	11/17/1995	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF02A	8'-22.75'	03/01/1996	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF02A	8'-22.75'	05/23/1996	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF02A	8'-22.75'	08/26/1996	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
			Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
		CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
PL2-JF02A	8'-22.75'	11/21/1996	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF02A	8'-22.75'	11/21/1996	—	—	—	—	1 U	2 U	1 U	2 U	1 U	—	—
PL2-JF02A	8'-22.75'	04/26/2001	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	07/25/2001	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	10/24/2001	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	01/21/2002	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	06/16/2003	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	09/02/2003	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	12/08/2003	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	02/02/2004	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	05/10/2004	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	11/01/2004	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF02A	8'-22.75'	02/01/2005	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	5.5'-23'	05/02/2005	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF02A	8'-22.75'	08/01/2005	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	10/31/2005	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	02/06/2006	—	—	—	—	1 U	1 U	1 U	1 U	—	—	—
PL2-JF02A	8'-22.75'	02/06/2006	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF02A	8'-22.75'	05/01/2006	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	07/31/2006	—	—	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—
PL2-JF02A	5.5'-23'	08/23/2006	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	11/06/2006	—	—	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—
PL2-JF02A	8'-22.75'	02/01/2007	—	—	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—
PL2-JF02A	8'-22.75'	05/02/2007	—	—	—	—	1 U	1 U	1 U	1 U	1 U	—	—
PL2-JF02A	5.5'-23'	08/01/2007	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF02A	5.5'-23'	11/12/2007	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF02A	8'-22.75'	02/04/2008	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF02A	8'-22.75'	08/04/2008	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF02A	5.5'-23'	02/03/2009	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF02A	8'-22.75'	08/10/2009	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF02A	8'-22.75'	02/08/2010	—	—	—	—	—	—	—	—	1 U	—	—
PL2-JF02A	5.5'-23'	08/03/2010	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
PL2-JF02A	5.5'-23'	01/31/2011	—	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U
PL2-JF02A	5.5'-23'	08/15/2011	—	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U
PL2-JF02A	5.5'-23'	02/06/2012	—	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
PL2-JF02A	5.5'-23'	08/06/2012	—	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
PL2-JF02A	5.5'-23'	01/07/2013	—	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
PL2-JF02A	5.5'-23'	08/06/2013	—	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
PL2-JF04A	8'-18'	08/23/2006	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
T2B2	0-15'	01/13/2011	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	**2.3**	0.2 U	0.2 U
T2B3	0-15'	01/13/2011	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	**1.3**	0.2 U	0.2 U
T2B3	0-15'	01/13/2011	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	**1.3**	0.2 U	0.2 U
T2B4	0-15'	01/13/2011	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	**0.4**	0.2 U	0.2 U
T3B2	0-15'	01/14/2011	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	**2.9**	0.2 U	0.2 U
T3B3	0-15'	01/13/2011	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U
T3B4	0-24'	01/13/2011	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U
WP-266-09	13'	08/02/1993	—	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	18'	08/02/1993	—	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	23'	08/02/1993	—	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	28'	08/02/1993	—	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	33'	08/02/1993	—	—	—	—	—	—	—	—	5 U	—	—

Table B-13C: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)										
			Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
		CAS	74-96-4	75-25-2	74-83-9	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	124-48-1
WP-266-09	38'	08/02/1993	—	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	43'	08/02/1993	—	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	48'	08/02/1993	—	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	53'	08/02/1993	—	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	58'	08/02/1993	—	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	63'	08/02/1993	—	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	38'	08/04/1993	—	1 U	2 U	1 U	1 U	2 U	1 U	2 U	1 U	1 U	1 U

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-13D: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	Dibromomethane 74-95-3	Dichlorobromomethane 75-27-4	Dichlorodifluoromethane (CFC-12) 75-71-8	Ethylene dibromide (EDB) 106-93-4	Methyl iodide 74-88-4	Methylene chloride 75-09-2	Tetrachloroethene (PCE) 127-18-4	trans-1,2-Dichloroethene 156-60-5	trans-1,3-Dichloropropene 10061-02-6	trans-1,4-Dichloro-2-butene 110-57-6
Area 1												
* GP-08901	14'	09/14/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08901	24'	09/14/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08902	14'	09/14/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08902	24'	09/14/1994	—	—	—	—	—	—	1 U	**21**	—	—
* GP-08903	14'	09/14/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08903	24'	09/14/1994	—	—	—	—	—	—	1 U	**2.2**	—	—
* GP-08904	14'	09/14/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08904	24'	09/14/1994	—	—	—	—	—	—	1 U	**1**	—	—
* GP-08905	14'	09/13/1994	—	—	—	—	—	—	**6.8**	1 U	—	—
* GP-08905	24'	09/13/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-08906	15'	11/29/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-08906	25'	11/29/1994	—	—	—	—	—	—	1 U	**1.7**	—	—
GP-08906	45'	11/29/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-08906	65'	11/29/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-08907	15'	11/28/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-08907	25'	11/28/1994	—	—	—	—	—	—	1 U	**21**	—	—
GP-08907	45'	11/28/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-08907	63'	11/29/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08908	14'	03/17/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08908	25'	03/17/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08908	45'	03/17/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09106	14'	03/14/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09106	25'	03/14/1995	—	—	—	—	—	—	1 U	**31**	—	—
GP-09106	45'	03/14/1995	—	—	—	—	—	—	1 U	1 U	—	—
MW-9		08/17/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
MW-22	6'-15.75'	09/17/1992	—	—	—	—	—	—	2 U	2 U	—	—
MW-22	6'-15.75'	04/13/1993	—	—	—	—	—	—	1 U	1 U	—	—
MW-22	6'-15.75'	11/10/1993	—	—	—	—	—	—	5 U	2 U	—	—
* MW-23	6'-15.75'	09/10/1992	—	—	—	—	—	—	**2.8**	2 U	—	—
* MW-23	6'-15.75'	11/10/1993	—	—	—	—	—	—	5 U	2 U	—	—
* MW-23	6'-15.75'	12/29/2004	—	—	—	—	—	—	1 U	1 U	—	—
* MW-23	6'-15.75'	01/31/2008	—	—	—	—	—	—	**2.8**	**0.35**	—	—
* MW-23	6'-15.75'	02/26/2009	—	—	—	—	—	—	**1.6**	**0.33**	—	—
* MW-23	6'-15.75'	05/21/2009	—	—	—	—	—	—	**1.8**	**0.45**	—	—
* MW-23	6'-15.75'	08/27/2009	—	—	—	—	—	—	**1.5**	**0.39**	—	—
* MW-23	6'-15.75'	12/11/2009	—	—	—	—	—	—	**1.8**	**0.5**	—	—
* MW-23		08/16/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	**1.06 J**	0.05 U	0.08 U	—
* MW-23		02/12/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	**1.67**	0.05 U	0.08 U	—
* MW-24	6'-19.75'	09/17/1992	—	—	—	—	—	—	100 U	100 U	—	—
* MW-24	6'-19.75'	11/10/1993	—	—	—	—	—	—	5 U	2 U	—	—
* MW-24	6'-19.75'	01/31/2008	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-24	6'-19.75'	02/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-24	6'-19.75'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-24	6'-19.75'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-24	6'-19.75'	12/10/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-24		08/25/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
* MW-24		02/09/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
MW-25	6'-19.75'	09/17/1992	—	—	—	—	—	—	2,000 U	2,000 U	—	—
MW-25	6'-19.75'	04/13/1993	—	—	—	—	—	—	1 U	1 U	—	—
MW-25	6'-19.75'	11/10/1993	—	—	—	—	—	—	5 U	2 U	—	—
MW-25	6'-19.75'	12/29/2004	—	—	—	—	—	—	1 U	1 U	—	—

Table B-13D: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
			CAS	Dibromomethane 74-95-3	Dichlorobromomethane 75-27-4	Dichlorodifluoromethane (CFC-12) 75-71-8	Ethylene dibromide (EDB) 106-93-4	Methyl iodide 74-88-4	Methylene chloride 75-09-2	Tetrachloroethene (PCE) 127-18-4	trans-1,2-Dichloroethene 156-60-5	trans-1,3-Dichloropropene 10061-02-6	trans-1,4-Dichloro-2-butene 110-57-6
	MW-25		08/23/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-25		02/09/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-30		08/18/2017	0.15 U	0.05 U	**0.5**	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-30		02/09/2018	0.15 U	0.05 U	**0.27**	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-30		02/09/2018	0.15 U	0.05 U	**0.33**	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-48		02/12/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-48	5'-17'	02/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-48	5'-17'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-48	5'-17'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-48	5'-17'	12/10/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-48		08/16/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
*	MW-49	23'-27'	02/13/2009	—	—	—	—	—	—	0.2 U	**2.8**	—	—
*	MW-49	5'-17'	02/26/2009	—	—	—	—	—	—	0.2 U	**1.1**	—	—
*	MW-49	5'-17'	05/21/2009	—	—	—	—	—	—	0.2 U	**0.63**	—	—
*	MW-49	5'-17'	08/27/2009	—	—	—	—	—	—	0.2 U	**0.61**	—	—
*	MW-49	5'-17'	12/11/2009	—	—	—	—	—	—	0.2 U	**0.41**	—	—
*	MW-49		08/17/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	**0.25**	0.08 U	—
*	MW-49		02/09/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	**0.09 J**	**0.17 J**	0.08 U	—
Area 2													
	MW-7		03/02/1990	—	0.5 U	—	—	—	0.5 U	0.5 U	0.5 U	0.5 U	—
	MW-7	10'-20'	02/25/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-7		08/17/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-14	5'-20'	02/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-15		08/23/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-15		02/12/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-32	5'-15'	02/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-32		08/24/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-36		02/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-36		08/21/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-37	10'-25'	02/25/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-37	10'-25'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-37	10'-25'	08/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-37	10'-25'	12/11/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-37		08/17/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-37		02/09/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	**0.05**	0.05 U	0.08 U	—
Area 3													
	MW-8	5'-20'	02/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-8		08/17/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
Area 4													
	MW-11	5'-20'	02/25/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
Area 5													
	MW-40	10'-25'	02/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-40	10'-25'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-40	10'-25'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-40	10'-25'	12/18/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-40		08/21/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-40		02/08/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-41	30'-40'	02/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—

Table B-13D: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	Dibromomethane 74-95-3	Dichlorobromomethane 75-27-4	Dichlorodifluoromethane (CFC-12) 75-71-8	Ethylene dibromide (EDB) 106-93-4	Methyl iodide 74-88-4	Methylene chloride 75-09-2	Tetrachloroethene (PCE) 127-18-4	trans-1,2-Dichloroethene 156-60-5	trans-1,3-Dichloropropene 10061-02-6	trans-1,4-Dichloro-2-butene 110-57-6
MW-41	30'-40'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
MW-41	30'-40'	08/26/2009	—	—	—	—	—	—	0.2 U	**0.21**	—	—
MW-41	30'-40'	12/18/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
MW-41		08/21/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
MW-41		02/08/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
Area 6												
* GP-06635	15'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-06635	25'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-06635	45'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-06635	65'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06640	14'	03/15/1995	—	—	—	—	—	—	**1.5**	1 U	—	—
GP-06640	25'	03/15/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-06640	45'	03/15/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09104	15'	11/23/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-09104	25'	11/23/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-09104	45'	11/23/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-09105	15'	11/23/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-09105	25'	11/23/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-09105	45'	11/23/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-09107	14'	03/14/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09107	25'	03/14/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09107	45'	03/14/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09108	14'	03/14/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09108	25'	03/14/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09108	45'	03/14/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09109	14'	03/15/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09109	25'	03/15/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09109	45'	03/15/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09110	15'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09110	25'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09110	45'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09111	15'	09/20/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09111	25'	09/20/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09111	45'	09/20/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09112	15'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09112	25'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-09112	45'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09113	15'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09113	25'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09113	45'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09114	15'	09/20/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09114	25'	09/20/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09114	45'	09/20/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09115	15'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09115	25'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09115	45'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* MW-6		03/02/1990	—	0.5 U	—	—	—	0.5 U	0.5 U	0.5 U	0.5 U	—
* MW-6		08/21/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
MW-31	5'-19'	12/29/2004	—	—	—	—	—	—	1 U	1 U	—	—
MW-31	5'-19'	02/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
MW-31		08/16/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
MW-31		02/06/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—

Table B-13D: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
			CAS	Dibromomethane 74-95-3	Dichlorobromomethane 75-27-4	Dichlorodifluoromethane (CFC-12) 75-71-8	Ethylene dibromide (EDB) 106-93-4	Methyl iodide 74-88-4	Methylene chloride 75-09-2	Tetrachloroethene (PCE) 127-18-4	trans-1,2-Dichloroethene 156-60-5	trans-1,3-Dichloropropene 10061-02-6	trans-1,4-Dichloro-2-butene 110-57-6
	MW-45	30'-40'	02/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-45	30'-40'	05/21/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-45	30'-40'	08/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-45	30'-40'	12/11/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-45		08/16/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-45		02/06/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-46	5'-20'	02/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-46	5'-20'	05/21/2009	—	—	—	—	—	—	0.4 U	0.4 U	—	—
	MW-46	5'-20'	08/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-46	5'-20'	12/11/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-46		08/24/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-46		08/24/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-46		02/06/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
Area 7													
	MW-38	5'-20'	02/24/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-38	5'-20'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-38	5'-20'	08/25/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-38	5'-20'	12/10/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-38		08/16/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
*	MW-39	5'-20'	02/24/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-39	5'-20'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-39	5'-20'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-39	5'-20'	12/10/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-39		08/28/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
*	MW-39		02/13/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	**0.05**	0.05 U	0.08 U	—
*	MW-42	5'-20'	02/25/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-42	5'-20'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-42	5'-20'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-42	5'-20'	12/10/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-42		08/23/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
*	MW-42		02/14/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
*	MW-43	30'-40'	02/25/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-43	30'-40'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-43	30'-40'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-43	30'-40'	12/11/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-43		08/24/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
*	MW-43		02/14/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
*	MW-44	50'-60'	02/25/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-44	50'-60'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-44	50'-60'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-44	50'-60'	12/18/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-44		08/23/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
*	MW-44		02/14/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—

Table B-13D: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	Dibromomethane 74-95-3	Dichlorobromomethane 75-27-4	Dichlorodifluoromethane (CFC-12) 75-71-8	Ethylene dibromide (EDB) 106-93-4	Methyl iodide 74-88-4	Methylene chloride 75-09-2	Tetrachloroethene (PCE) 127-18-4	trans-1,2-Dichloroethene 156-60-5	trans-1,3-Dichloropropene 10061-02-6	trans-1,4-Dichloro-2-butene 110-57-6
Area 8												
* GP-06635	15'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-06635	25'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-06635	45'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-06635	65'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09113	15'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09113	25'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09113	45'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09114	15'	09/20/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09114	25'	09/20/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09114	45'	09/20/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09115	15'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09115	25'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-09115	45'	09/19/1995	—	—	—	—	—	—	1 U	1 U	—	—
* MW-6		03/02/1990	—	0.5 U	—	—	—	0.5 U	0.5 U	0.5 U	0.5 U	—
* MW-6		08/21/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
* MW-39	5'-20'	02/24/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-39	5'-20'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-39	5'-20'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-39	5'-20'	12/10/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-39		08/28/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
* MW-39		02/13/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	**0.05**	0.05 U	0.08 U	—
* MW-42	5'-20'	02/25/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-42	5'-20'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-42	5'-20'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-42	5'-20'	12/10/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-42		08/23/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
* MW-42		02/14/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
* MW-43	30'-40'	02/25/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-43	30'-40'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-43	30'-40'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-43	30'-40'	12/11/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-43		08/24/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
* MW-43		02/14/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
* MW-44	50'-60'	02/25/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-44	50'-60'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-44	50'-60'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-44	50'-60'	12/18/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
* MW-44		08/23/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
* MW-44		02/14/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
MW-47	5'-20'	02/25/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
MW-47	5'-20'	05/21/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
MW-47	5'-20'	08/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
MW-47	5'-20'	12/11/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
MW-47		08/24/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
MW-47		02/12/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
PL2-JF03A	8'-22.75'	09/28/1995	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	11/17/1995	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	03/01/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	05/23/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	08/26/1996	—	—	—	—	—	—	1 U	1 U	—	—

Table B-13D: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	Dibromomethane 74-95-3	Dichlorobromomethane 75-27-4	Dichlorodifluoromethane (CFC-12) 75-71-8	Ethylene dibromide (EDB) 106-93-4	Methyl iodide 74-88-4	Methylene chloride 75-09-2	Tetrachloroethene (PCE) 127-18-4	trans-1,2-Dichloroethene 156-60-5	trans-1,3-Dichloropropene 10061-02-6	trans-1,4-Dichloro-2-butene 110-57-6
PL2-JF03A	8'-22.75'	11/21/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	04/26/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	07/25/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	10/24/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	01/21/2002	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	06/16/2003	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	12/08/2003	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	05/10/2004	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF03A	8'-22.75'	11/01/2004	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF03A	6'-23'	05/02/2005	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF03A	8'-22.75'	10/31/2005	—	—	—	—	—	—	1 U	1 U	—	—
Area 9												
GP-06601	13'	09/12/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06601	23'	09/12/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06601	45'	09/12/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06602	14'	09/13/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06602	24'	09/13/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06602	45'	09/13/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06603	14'	09/12/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06603	24'	09/12/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06603	45'	09/12/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06604	14'	09/13/1994	—	—	—	—	—	—	5 U	5 U	—	—
GP-06604	24'	09/13/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06604	45'	09/13/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06633	15'	11/28/1994	—	—	—	—	—	—	1 U	**1.1**	—	—
GP-06633	25'	11/28/1994	—	—	—	—	—	—	1 U	**13**	—	—
GP-06633	45'	11/28/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06633	65'	11/28/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06634	15'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06634	25'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06634	45'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06634	65'	11/22/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06636	15'	11/21/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06636	25'	11/21/1994	—	—	—	—	—	—	1 U	**3.4**	—	—
GP-06636	45'	11/21/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06636	65'	11/21/1994	—	—	—	—	—	—	1 U	1 U	—	—
GP-06637	14'	03/15/1995	—	—	—	—	—	—	**2.2**	1 U	—	—
GP-06637	25'	03/15/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-06637	45'	03/15/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-06638	14'	03/16/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-06638	25'	03/16/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-06638	45'	03/16/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-06639	14'	03/16/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-06639	25'	03/16/1995	—	—	—	—	—	—	1 U	1 U	—	—
GP-06639	45'	03/16/1995	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08901	14'	09/14/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08901	24'	09/14/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08902	14'	09/14/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08902	24'	09/14/1994	—	—	—	—	—	—	1 U	**21**	—	—
* GP-08903	14'	09/14/1994	—	—	—	—	—	—	1 U	1 U	—	—
* GP-08903	24'	09/14/1994	—	—	—	—	—	—	1 U	**2.2**	—	—
* GP-08904	14'	09/14/1994	—	—	—	—	—	—	1 U	1 U	—	—

Table B-13D: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
			CAS	Dibromomethane 74-95-3	Dichlorobromomethane 75-27-4	Dichlorodifluoromethane (CFC-12) 75-71-8	Ethylene dibromide (EDB) 106-93-4	Methyl iodide 74-88-4	Methylene chloride 75-09-2	Tetrachloroethene (PCE) 127-18-4	trans-1,2-Dichloroethene 156-60-5	trans-1,3-Dichloropropene 10061-02-6	trans-1,4-Dichloro-2-butene 110-57-6
*	GP-08904	24'	09/14/1994	—	—	—	—	—	—	1 U	**1**	—	—
*	GP-08905	14'	09/13/1994	—	—	—	—	—	—	**6.8**	1 U	—	—
*	GP-08905	24'	09/13/1994	—	—	—	—	—	—	1 U	1 U	—	—
*	GP-08908	14'	03/17/1995	—	—	—	—	—	—	1 U	1 U	—	—
*	GP-08908	25'	03/17/1995	—	—	—	—	—	—	1 U	1 U	—	—
*	GP-08908	45'	03/17/1995	—	—	—	—	—	—	1 U	1 U	—	—
	GP-09101	15'	09/12/1994	—	—	—	—	—	—	1 U	1 U	—	—
	GP-09102	14'	09/08/1994	—	—	—	—	—	—	1 U	1 U	—	—
	GP-09103	14'	09/08/1994	—	—	—	—	—	—	1 U	1 U	—	—
	MW-5		03/02/1990	—	12.5 U	—	—	—	12.5 U	12.5 U	12.5 U	12.5 U	—
	MW-5	10'-20'	02/24/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-5	10'-20'	05/21/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-5	10'-20'	08/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-5	10'-20'	12/11/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-23	6'-15.75'	09/10/1992	—	—	—	—	—	—	**2.8**	2 U	—	—
*	MW-23	6'-15.75'	11/10/1993	—	—	—	—	—	—	5 U	2 U	—	—
*	MW-23	6'-15.75'	12/29/2004	—	—	—	—	—	—	1 U	1 U	—	—
*	MW-23	6'-15.75'	01/31/2008	—	—	—	—	—	—	**2.8**	**0.35**	—	—
*	MW-23	6'-15.75'	02/26/2009	—	—	—	—	—	—	**1.6**	**0.33**	—	—
*	MW-23	6'-15.75'	05/21/2009	—	—	—	—	—	—	**1.8**	**0.45**	—	—
*	MW-23	6'-15.75'	08/27/2009	—	—	—	—	—	—	**1.5**	**0.39**	—	—
*	MW-23	6'-15.75'	12/11/2009	—	—	—	—	—	—	**1.8**	**0.5**	—	—
*	MW-23		08/16/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	**1.06 J**	0.05 U	0.08 U	—
*	MW-23		02/12/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	**1.67**	0.05 U	0.08 U	—
*	MW-24	6'-19.75'	09/17/1992	—	—	—	—	—	—	100 U	100 U	—	—
*	MW-24	6'-19.75'	11/10/1993	—	—	—	—	—	—	5 U	2 U	—	—
*	MW-24	6'-19.75'	01/31/2008	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-24	6'-19.75'	02/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-24	6'-19.75'	05/20/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-24	6'-19.75'	08/26/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-24	6'-19.75'	12/10/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
*	MW-24		08/25/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
*	MW-24		02/09/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
*	MW-49	23'-27'	02/13/2009	—	—	—	—	—	—	0.2 U	**2.8**	—	—
*	MW-49	5'-17'	02/26/2009	—	—	—	—	—	—	0.2 U	**1.1**	—	—
*	MW-49	5'-17'	05/21/2009	—	—	—	—	—	—	0.2 U	**0.63**	—	—
*	MW-49	5'-17'	08/27/2009	—	—	—	—	—	—	0.2 U	**0.61**	—	—
*	MW-49	5'-17'	12/11/2009	—	—	—	—	—	—	0.2 U	**0.41**	—	—
*	MW-49		08/17/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	**0.25**	0.08 U	—
*	MW-49		02/09/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	**0.09 J**	**0.17 J**	0.08 U	—
	MW-50	23'-27'	02/24/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-50	23'-27'	05/21/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-50	23'-27'	08/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-50	23'-27'	12/11/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-50		08/16/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-50		02/14/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-51	23'-27'	02/24/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-51	23'-27'	05/21/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-51	23'-27'	08/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-51	23'-27'	12/11/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
	MW-51		08/25/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—
	MW-51		02/14/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	0.05 U	0.08 U	—

Table B-13D: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	Dibromomethane 74-95-3	Dichlorobromomethane 75-27-4	Dichlorodifluoromethane (CFC-12) 75-71-8	Ethylene dibromide (EDB) 106-93-4	Methyl iodide 74-88-4	Methylene chloride 75-09-2	Tetrachloroethene (PCE) 127-18-4	trans-1,2-Dichloroethene 156-60-5	trans-1,3-Dichloropropene 10061-02-6	trans-1,4-Dichloro-2-butene 110-57-6
MW-52	23'-27'	02/24/2009	—	—	—	—	—	—	0.2 U	**0.23**	—	—
MW-52	23'-27'	05/21/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
MW-52	23'-27'	08/27/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
MW-52	23'-27'	12/11/2009	—	—	—	—	—	—	0.2 U	0.2 U	—	—
MW-52		08/18/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	**0.07 J**	0.08 U	—
MW-52		08/18/2017	0.15 U	0.05 U	0.05 U	0.07 U	—	**0.5 J**	0.05 U	**0.1 J**	0.08 U	—
MW-52		02/06/2018	0.15 U	0.05 U	0.05 U	0.07 U	—	0.49 U	0.05 U	**0.12 J**	0.08 U	—
PL2-JF01A		03/10/1995	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01A		09/27/1995	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01A		11/17/1995	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01A		03/01/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01A		05/23/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01A		08/26/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01A		11/21/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01AR	23'-27'	05/17/2001	—	—	—	—	—	—	5 U	5 U	—	—
PL2-JF01AR	23'-27'	07/25/2001	—	—	—	—	—	—	1 U	**3.9**	—	—
PL2-JF01AR	23'-27'	10/24/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01AR	23'-27'	01/21/2002	—	—	—	—	—	—	5 U	**25**	—	—
PL2-JF01AR	23'-27'	06/16/2003	—	—	—	—	—	—	100 U	100 U	—	—
PL2-JF01AR	23'-27'	09/02/2003	—	—	—	—	—	—	25 U	25 U	—	—
PL2-JF01AR	23'-27'	12/08/2003	—	—	—	—	—	—	30 U	30 U	—	—
PL2-JF01AR	23'-27'	12/19/2003	—	—	—	—	—	—	20 U	20 U	—	—
PL2-JF01AR	23'-27'	02/02/2004	—	—	—	—	—	—	20 U	20 U	—	—
PL2-JF01AR	23'-27'	05/10/2004	—	—	—	—	—	—	50 U	50 U	—	—
PL2-JF01AR	23.2'-27'	08/02/2004	—	50 U	—	—	—	100 U	50 U	50 U	50 U	—
PL2-JF01AR	23.2'-27'	09/27/2004	—	50 U	—	—	—	100 U	50 U	50 U	50 U	—
PL2-JF01AR	23'-27'	11/01/2004	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01AR	23'-27'	02/01/2005	—	—	—	—	—	—	50 U	50 U	—	—
PL2-JF01AR	23.2'-27'	05/02/2005	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01AR	23'-27'	08/01/2005	—	—	—	—	—	—	75 U	75 U	—	—
PL2-JF01AR	23'-27'	10/31/2005	—	—	—	—	—	—	10 U	10 U	—	—
PL2-JF01AR	23'-27'	02/06/2006	—	—	—	—	—	—	10 U	10 U	—	—
PL2-JF01AR	23'-27'	05/01/2006	—	—	—	—	—	—	15 U	15 U	—	—
PL2-JF01AR	23'-27'	07/31/2006	—	—	—	—	—	—	15 U	15 U	—	—
PL2-JF01AR	23.2'-27'	08/23/2006	—	25 U	—	—	—	68 U	25 U	25 U	25 U	—
PL2-JF01AR	23'-27'	11/06/2006	—	—	—	—	—	—	5 U	5 U	—	—
PL2-JF01AR	23'-27'	02/01/2007	—	—	—	—	—	—	3 U	3 U	—	—
PL2-JF01AR	23'-27'	05/02/2007	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01AR	23.2'-27'	08/01/2007	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01AR	23.2'-27'	11/12/2007	—	5 U	—	—	—	10 U	5 U	5 U	5 U	—
PL2-JF01AR	23'-27'	02/04/2008	—	—	—	—	—	—	5 U	5 U	—	—
PL2-JF01AR	23.2'-27'	05/12/2008	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01AR	23'-27'	08/04/2008	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01AR	23.2'-27'	02/03/2009	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01AR	23'-27'	08/10/2009	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01AR	23.2'-27'	02/08/2010	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01AR	23.2'-27'	08/03/2010	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01AR	23.2'-27'	01/31/2011	—	0.2 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01AR	23.2'-27'	08/15/2011	—	0.2 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01AR	23.2'-27'	02/06/2012	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01AR	23.2'-27'	08/06/2012	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—

Table B-13D: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	Dibromomethane 74-95-3	Dichlorobromomethane 75-27-4	Dichlorodifluoromethane (CFC-12) 75-71-8	Ethylene dibromide (EDB) 106-93-4	Methyl iodide 74-88-4	Methylene chloride 75-09-2	Tetrachloroethene (PCE) 127-18-4	trans-1,2-Dichloroethene 156-60-5	trans-1,3-Dichloropropene 10061-02-6	trans-1,4-Dichloro-2-butene 110-57-6
PL2-JF01AR	23.2'-27'	01/07/2013	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01AR	23.2'-27'	08/06/2013	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	03/31/1995	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	09/27/1995	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	11/17/1995	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	03/01/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	05/23/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	08/26/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	11/21/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	04/26/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	07/25/2001	—	—	—	—	—	—	2 U	2 U	—	—
PL2-JF01B	40'-50'	10/24/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	01/21/2002	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	06/16/2003	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	09/02/2003	—	—	—	—	—	—	1 U	**2.2**	—	—
PL2-JF01B	40'-50'	12/08/2003	—	—	—	—	—	—	5 U	5 U	—	—
PL2-JF01B	40'-50'	12/19/2003	—	—	—	—	—	—	5 U	5 U	—	—
PL2-JF01B	40'-50'	02/02/2004	—	—	—	—	—	—	5 U	5 U	—	—
PL2-JF01B	40'-50'	05/10/2004	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	09/27/2004	—	0.2 U	—	—	—	0.3 U	0.2 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	11/01/2004	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01B	40'-50'	02/01/2005	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	05/02/2005	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01B	40'-50'	08/01/2005	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	10/31/2005	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	02/06/2006	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	05/01/2006	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	07/31/2006	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	08/23/2006	—	0.2 U	—	—	—	0.3 U	0.2 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	11/06/2006	—	—	—	—	—	—	0.2 U	0.2 U	—	—
PL2-JF01B	40'-50'	02/01/2007	—	—	—	—	—	—	0.2 U	0.2 U	—	—
PL2-JF01B	40'-50'	05/02/2007	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	08/01/2007	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01B	40'-50'	11/12/2007	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01B	40'-50'	02/04/2008	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	05/12/2008	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01B	40'-50'	08/04/2008	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	02/03/2009	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01B	40'-50'	08/10/2009	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	02/08/2010	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01B	40'-50'	08/03/2010	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01B	40'-50'	01/31/2011	—	0.2 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	08/15/2011	—	0.2 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	02/06/2012	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	08/06/2012	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	01/07/2013	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01B	40'-50'	08/06/2013	—	0.5 U	—	—	—	0.5 U	—	0.2 U	0.2 U	—
PL2-JF01C	74'-78'	05/17/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78'	07/25/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78'	10/24/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78'	01/21/2002	—	—	—	—	—	—	1 U	1 U	—	—

Table B-13D: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	Dibromomethane 74-95-3	Dichlorobromomethane 75-27-4	Dichlorodifluoromethane (CFC-12) 75-71-8	Ethylene dibromide (EDB) 106-93-4	Methyl iodide 74-88-4	Methylene chloride 75-09-2	Tetrachloroethene (PCE) 127-18-4	trans-1,2-Dichloroethene 156-60-5	trans-1,3-Dichloropropene 10061-02-6	trans-1,4-Dichloro-2-butene 110-57-6
PL2-JF01C	74'-78'	06/16/2003	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78'	12/08/2003	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78'	12/19/2003	—	—	—	—	—	—	0.2 U	0.2 U	—	—
PL2-JF01C	74'-78'	05/10/2004	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78.5'	09/27/2004	—	0.2 U	—	—	—	0.3 U	0.2 U	0.2 U	0.2 U	—
PL2-JF01C	74'-78'	11/01/2004	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78.5'	02/01/2005	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78.5'	05/02/2005	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78.5'	08/01/2005	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78'	10/31/2005	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78'	02/06/2006	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78'	05/01/2006	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78.5'	07/31/2006	—	2 U	—	—	—	3 U	2 U	2 U	2 U	—
PL2-JF01C	74'-78.5'	08/23/2006	—	0.2 U	—	—	—	0.3 U	0.2 U	0.2 U	0.2 U	—
PL2-JF01C	74'-78'	11/06/2006	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78.5'	02/01/2007	—	0.2 U	—	—	—	0.3 U	0.2 U	0.2 U	0.2 U	—
PL2-JF01C	74'-78'	05/02/2007	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78.5'	08/01/2007	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78.5'	11/12/2007	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78'	02/04/2008	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78.5'	05/12/2008	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78'	08/04/2008	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78.5'	02/03/2009	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78'	08/10/2009	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78'	02/08/2010	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF01C	74'-78.5'	08/03/2010	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF01C	74'-78.5'	01/31/2011	—	0.2 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01C	74'-78.5'	08/15/2011	—	0.2 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01C	74'-78.5'	02/06/2012	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01C	74'-78.5'	08/06/2012	—	2.5 U	—	—	—	2.5 U	0.02 U	1 U	1 U	—
PL2-JF01C	74'-78.5'	01/07/2013	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF01C	74'-78.5'	08/06/2013	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF02A	8'-22.75'	09/27/1995	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	11/17/1995	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	03/01/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	05/23/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	08/26/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	11/21/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	11/21/1996	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	04/26/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	07/25/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	10/24/2001	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	01/21/2002	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	06/16/2003	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	09/02/2003	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	12/08/2003	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	02/02/2004	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	05/10/2004	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	11/01/2004	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF02A	8'-22.75'	02/01/2005	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	5.5'-23'	05/02/2005	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—

Table B-13D: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)									
		CAS	Dibromomethane 74-95-3	Dichlorobromomethane 75-27-4	Dichlorodifluoromethane (CFC-12) 75-71-8	Ethylene dibromide (EDB) 106-93-4	Methyl iodide 74-88-4	Methylene chloride 75-09-2	Tetrachloroethene (PCE) 127-18-4	trans-1,2-Dichloroethene 156-60-5	trans-1,3-Dichloropropene 10061-02-6	trans-1,4-Dichloro-2-butene 110-57-6
PL2-JF02A	8'-22.75'	08/01/2005	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	10/31/2005	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	02/06/2006	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	05/01/2006	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	07/31/2006	—	—	—	—	—	—	0.2 U	0.2 U	—	—
PL2-JF02A	5.5'-23'	08/23/2006	—	0.2 U	—	—	—	0.3 U	0.2 U	0.2 U	0.2 U	—
PL2-JF02A	8'-22.75'	11/06/2006	—	—	—	—	—	—	0.2 U	0.2 U	—	—
PL2-JF02A	8'-22.75'	02/01/2007	—	—	—	—	—	—	0.2 U	0.2 U	—	—
PL2-JF02A	8'-22.75'	05/02/2007	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	5.5'-23'	08/01/2007	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF02A	5.5'-23'	11/12/2007	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF02A	8'-22.75'	02/04/2008	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	08/04/2008	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	5.5'-23'	02/03/2009	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF02A	8'-22.75'	08/10/2009	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	8'-22.75'	02/08/2010	—	—	—	—	—	—	1 U	1 U	—	—
PL2-JF02A	5.5'-23'	08/03/2010	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—
PL2-JF02A	5.5'-23'	01/31/2011	—	0.2 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF02A	5.5'-23'	08/15/2011	—	0.2 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF02A	5.5'-23'	02/06/2012	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF02A	5.5'-23'	08/06/2012	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF02A	5.5'-23'	01/07/2013	—	0.5 U	—	—	—	0.5 U	0.02 U	0.2 U	0.2 U	—
PL2-JF02A	5.5'-23'	08/06/2013	—	0.5 U	—	—	—	0.5 U	—	0.2 U	0.2 U	—
PL2-JF04A	8'-18'	08/23/2006	—	0.2 U	—	—	—	0.3 U	0.2 U	0.2 U	0.2 U	—
T2B2	0-15'	01/13/2011	0.2 U	0.2 U	—	0.2 U	1 U	0.5 U	0.2 U	0.2 U	0.2 U	1 U
T2B3	0-15'	01/13/2011	0.2 U	0.2 U	—	0.2 U	1 U	0.5 U	**0.8**	0.2 U	0.2 U	1 U
T2B3	0-15'	01/13/2011	0.2 U	0.2 U	—	0.2 U	1 U	0.5 U	**0.8**	0.2 U	0.2 U	1 U
T2B4	0-15'	01/13/2011	0.2 U	0.2 U	—	0.2 U	1 U	0.5 U	0.2 U	0.2 U	0.2 U	1 U
T3B2	0-15'	01/14/2011	0.2 U	0.2 U	—	0.2 U	1 U	0.5 U	0.2 U	0.2 U	0.2 U	1 U
T3B3	0-15'	01/13/2011	0.2 U	0.2 U	—	0.2 U	1 U	0.5 U	0.2 U	0.2 U	0.2 U	1 U
T3B4	0-24'	01/13/2011	0.2 U	0.2 U	—	0.2 U	1 U	0.5 U	0.2 U	0.2 U	0.2 U	1 U
WP-266-09	13'	08/02/1993	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	18'	08/02/1993	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	23'	08/02/1993	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	28'	08/02/1993	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	33'	08/02/1993	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	38'	08/02/1993	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	43'	08/02/1993	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	48'	08/02/1993	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	53'	08/02/1993	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	58'	08/02/1993	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	63'	08/02/1993	—	—	—	—	—	—	—	5 U	—	—
WP-266-09	38'	08/04/1993	—	1 U	—	—	—	2 U	1 U	1 U	1 U	—

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-13E: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)			
			Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
Area 1						
* GP-08901	14'	09/14/1994	1 U	—	—	**13**
* GP-08901	24'	09/14/1994	1 U	—	—	**25**
* GP-08902	14'	09/14/1994	1 U	—	—	**21**
* GP-08902	24'	09/14/1994	**2.8**	—	—	**54**
* GP-08903	14'	09/14/1994	1 U	—	—	**0.37**
* GP-08903	24'	09/14/1994	1 U	—	—	**25**
* GP-08904	14'	09/14/1994	1 U	—	—	0.02 U
* GP-08904	24'	09/14/1994	1 U	—	—	**0.26**
* GP-08905	14'	09/13/1994	**1.7**	—	—	0.02 U
* GP-08905	24'	09/13/1994	1 U	—	—	**0.08**
GP-08906	15'	11/29/1994	1 U	—	—	0.02 U
GP-08906	25'	11/29/1994	1 U	—	—	**22**
GP-08906	45'	11/29/1994	1 U	—	—	**7.2**
GP-08906	65'	11/29/1994	1 U	—	—	0.02 U
GP-08907	15'	11/28/1994	1 U	—	—	**0.07**
GP-08907	25'	11/28/1994	**20**	—	—	**32**
GP-08907	45'	11/28/1994	1 U	—	—	**22**
GP-08907	63'	11/29/1994	1 U	—	—	0.02 U
* GP-08908	14'	03/17/1995	1 U	—	—	0.02 U
* GP-08908	25'	03/17/1995	1 U	—	—	0.02 U
* GP-08908	45'	03/17/1995	1 U	—	—	0.02 U
* GP-08908	25'	03/17/1995	1 U	—	—	0.02 U
* GP-08908	45'	03/17/1995	1 U	—	—	0.02 U
GP-09106	14'	03/14/1995	1 U	—	—	0.02 U
GP-09106	25'	03/14/1995	1 U	—	—	**30**
GP-09106	45'	03/14/1995	1 U	—	—	**2.2**
MW-9		08/17/2017	0.05 U	0.04 U	—	0.06 U
MW-22	6'-15.75'	09/17/1992	2 U	—	—	2 U
MW-22	6'-15.75'	04/13/1993	1 U	—	—	1 U
MW-22	6'-15.75'	11/10/1993	2 U	—	—	10 U
* MW-23	6'-15.75'	09/10/1992	2 U	—	—	2 U
* MW-23	6'-15.75'	11/10/1993	2 U	—	—	10 U
* MW-23	6'-15.75'	12/29/2004	**1.62**	—	—	1 U
* MW-23	6'-15.75'	01/31/2008	**2.4**	—	—	0.2 U
* MW-23	6'-15.75'	02/26/2009	**2**	—	—	0.2 U
* MW-23	6'-15.75'	05/21/2009	**2.2**	—	—	0.2 U
* MW-23	6'-15.75'	08/27/2009	**1.7**	—	—	0.2 U
* MW-23	6'-15.75'	12/11/2009	**2.2**	—	—	0.2 U
* MW-23		08/16/2017	**0.28 J**	0.04 U	—	0.06 U
* MW-23		02/12/2018	**0.33**	0.04 U	—	0.06 U
* MW-24	6'-19.75'	09/17/1992	100 U	—	—	100 U
* MW-24	6'-19.75'	11/10/1993	2 U	—	—	10 U
* MW-24	6'-19.75'	01/31/2008	0.2 U	—	—	0.2 U
* MW-24	6'-19.75'	02/26/2009	0.2 U	—	—	0.2 U
* MW-24	6'-19.75'	05/20/2009	0.2 U	—	—	0.2 U
* MW-24	6'-19.75'	08/26/2009	0.2 U	—	—	0.2 U
* MW-24	6'-19.75'	12/10/2009	0.2 U	—	—	0.2 U
* MW-24		08/25/2017	0.05 U	0.04 U	—	0.06 U
* MW-24		02/09/2018	0.05 U	0.04 U	—	0.06 U
MW-25	6'-19.75'	09/17/1992	2000 U	—	—	2000 U
MW-25	6'-19.75'	04/13/1993	1 U	—	—	1 U
MW-25	6'-19.75'	11/10/1993	2 U	—	—	10 U

Table B-13E: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)			
				Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
			CAS	79-01-6	75-69-4	76-13-1	75-01-4
	MW-25	6'-19.75'	12/29/2004	1 U	—	—	1 U
	MW-25		08/23/2017	0.05 U	0.04 U	—	0.06 U
	MW-25		02/09/2018	0.05 U	0.04 U	—	0.06 U
	MW-30		08/18/2017	0.05 U	0.04 U	—	0.06 U
	MW-30		02/09/2018	0.05 U	0.04 U	—	0.06 U
	MW-30		02/09/2018	0.05 U	0.04 U	—	0.06 U
	MW-48		02/12/2009	**0.42**	—	—	**0.2**
	MW-48	5'-17'	02/26/2009	0.2 U	—	—	0.2 U
	MW-48	5'-17'	05/20/2009	0.2 U	—	—	0.2 U
	MW-48	5'-17'	08/26/2009	0.2 U	—	—	0.2 U
	MW-48	5'-17'	12/10/2009	0.2 U	—	—	0.2 U
	MW-48		08/16/2017	0.05 U	0.04 U	—	0.06 U
*	MW-49	23'-27'	02/13/2009	**0.55**	—	—	**1.3**
*	MW-49	5'-17'	02/26/2009	**0.71**	—	—	**1.8**
*	MW-49	5'-17'	05/21/2009	**1.2**	—	—	**0.64**
*	MW-49	5'-17'	08/27/2009	**0.69**	—	—	**0.53**
*	MW-49	5'-17'	12/11/2009	**3.1**	—	—	**1.4**
*	MW-49		08/17/2017	**0.83**	0.04 U	—	**0.07 J**
*	MW-49		02/09/2018	**2.88**	0.04 U	—	**0.09 J**
Area 2							
	MW-7		03/02/1990	0.5 U	0.5 U	—	1 U
	MW-7	10'-20'	02/25/2009	0.2 U	—	—	0.2 U
	MW-7		08/17/2017	0.05 U	0.04 U	—	0.06 U
	MW-14	5'-20'	02/27/2009	0.2 U	—	—	0.2 U
	MW-15		08/23/2017	0.05 U	0.04 U	—	0.06 U
	MW-15		02/12/2018	0.05 U	0.04 U	—	0.06 U
	MW-32	5'-15'	02/27/2009	0.2 U	—	—	0.2 U
	MW-32		08/24/2017	0.05 U	0.04 U	—	0.06 U
	MW-36		02/27/2009	0.2 U	—	—	0.2 U
	MW-36		08/21/2017	0.05 U	0.04 U	—	0.06 U
	MW-37	10'-25'	02/25/2009	0.2 U	—	—	0.2 U
	MW-37	10'-25'	05/20/2009	0.2 U	—	—	0.2 U
	MW-37	10'-25'	08/27/2009	0.2 U	—	—	**0.42**
	MW-37	10'-25'	12/11/2009	0.2 U	—	—	0.2 U
	MW-37		08/17/2017	0.05 U	0.04 U	—	0.06 U
	MW-37		02/09/2018	0.05 U	0.04 U	—	0.06 U
Area 3							
	MW-8	5'-20'	02/26/2009	0.2 U	—	—	0.2 U
	MW-8		08/17/2017	0.05 U	0.04 U	—	0.06 U
Area 4							
	MW-11	5'-20'	02/25/2009	0.2 U	—	—	0.2 U
Area 5							
	MW-40	10'-25'	02/27/2009	0.2 U	—	—	**0.74**
	MW-40	10'-25'	05/20/2009	0.2 U	—	—	**0.97**
	MW-40	10'-25'	08/26/2009	0.2 U	—	—	**1.3**
	MW-40	10'-25'	12/18/2009	0.2 U	—	—	**1.4**
	MW-40		08/21/2017	0.05 U	0.04 U	—	**0.93 J**
	MW-40		02/08/2018	0.05 U	0.04 U	—	**0.87**

Table B-13E: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter) Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
MW-41	30'-40'	02/27/2009	0.2 U	—	—	**0.47**
MW-41	30'-40'	05/20/2009	0.2 U	—	—	**0.35**
MW-41	30'-40'	08/26/2009	0.2 U	—	—	**0.36**
MW-41	30'-40'	12/18/2009	0.2 U	—	—	**0.43**
MW-41		08/21/2017	0.05 U	0.04 U	—	**0.12 J**
MW-41		02/08/2018	0.05 U	0.04 U	—	**0.76**
Area 6						
* GP-06635	15'	11/22/1994	1 U	—	—	0.02 U
* GP-06635	25'	11/22/1994	1 U	—	—	**0.8**
* GP-06635	45'	11/22/1994	1 U	—	—	**0.21**
* GP-06635	65'	11/22/1994	1 U	—	—	**0.03**
GP-06640	14'	03/15/1995	1 U	—	—	0.02 U
GP-06640	25'	03/15/1995	1 U	—	—	**0.3**
GP-06640	45'	03/15/1995	1 U	—	—	**0.32**
GP-09104	15'	11/23/1994	1 U	—	—	0.02 U
GP-09104	25'	11/23/1994	1 U	—	—	**13**
GP-09104	45'	11/23/1994	1 U	—	—	**0.17**
GP-09105	15'	11/23/1994	1 U	—	—	0.02 U
GP-09105	25'	11/23/1994	1 U	—	—	**78**
GP-09105	45'	11/23/1994	1 U	—	—	**0.68**
GP-09107	14'	03/14/1995	1 U	—	—	0.02 U
GP-09107	25'	03/14/1995	1 U	—	—	**23**
GP-09107	45'	03/14/1995	1 U	—	—	**0.22**
GP-09108	14'	03/14/1995	1 U	—	—	0.02 U
GP-09108	25'	03/14/1995	1 U	—	—	**21**
GP-09108	45'	03/14/1995	1 U	—	—	**1.5**
GP-09109	14'	03/15/1995	1 U	—	—	**0.38**
GP-09109	25'	03/15/1995	1 U	—	—	**77**
GP-09109	45'	03/15/1995	1 U	—	—	**0.21**
GP-09110	15'	09/19/1995	1 U	—	—	**0.73**
GP-09110	25'	09/19/1995	1 U	—	—	**1.4**
GP-09110	45'	09/19/1995	1 U	—	—	**2.7**
GP-09111	15'	09/20/1995	1 U	—	—	**2.5**
GP-09111	25'	09/20/1995	1 U	—	—	**0.7**
GP-09111	45'	09/20/1995	1 U	—	—	**16**
GP-09112	15'	09/19/1995	1 U	—	—	0.01 U
GP-09112	25'	09/19/1995	1 U	—	—	**1.6**
GP-09112	45'	09/19/1995	1 U	—	—	**7.5**
* GP-09113	15'	09/19/1995	1 U	—	—	0.01 U
* GP-09113	25'	09/19/1995	1 U	—	—	**0.24**
* GP-09113	45'	09/19/1995	1 U	—	—	**16**
* GP-09114	15'	09/20/1995	1 U	—	—	**11**
* GP-09114	25'	09/20/1995	1 U	—	—	0.01 U
* GP-09114	45'	09/20/1995	1 U	—	—	**3.2**
* GP-09115	15'	09/19/1995	1 U	—	—	0.01 U
* GP-09115	25'	09/19/1995	1 U	—	—	**0.32**
* GP-09115	45'	09/19/1995	1 U	—	—	**0.4**
* MW-6		03/02/1990	0.5 U	0.5 U	—	1 U
* MW-6		08/21/2017	0.05 U	0.04 U	—	0.06 U
MW-31	5'-19'	12/29/2004	1 U	—	—	**0.202 J**
MW-31	5'-19'	02/26/2009	0.2 U	—	—	0.2 U

Table B-13E: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)			
			Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
MW-31		08/16/2017	0.05 U	0.04 U	—	**0.11 J**
MW-31		02/06/2018	0.05 U	0.04 U	—	**0.14 J**
MW-45	30'-40'	02/26/2009	0.2 U	—	—	**0.89**
MW-45	30'-40'	05/21/2009	0.2 U	—	—	**0.76**
MW-45	30'-40'	08/27/2009	0.2 U	—	—	**0.45**
MW-45	30'-40'	12/11/2009	0.2 U	—	—	**0.33**
MW-45		08/16/2017	0.05 U	0.04 U	—	**0.14 J**
MW-45		02/06/2018	0.05 U	0.04 U	—	**0.18 J**
MW-46	5'-20'	02/26/2009	0.2 U	—	—	**0.3**
MW-46	5'-20'	05/21/2009	0.4 U	—	—	0.4 U
MW-46	5'-20'	08/27/2009	0.2 U	—	—	**0.22**
MW-46	5'-20'	12/11/2009	0.2 U	—	—	**0.21**
MW-46		08/24/2017	0.05 U	0.04 U	—	**0.15 J**
MW-46		08/24/2017	0.05 U	0.04 U	—	**0.17 J**
MW-46		02/06/2018	0.05 U	0.04 U	—	**0.1 J**
Area 7						
MW-38	5'-20'	02/24/2009	0.2 U	—	—	0.2 U
MW-38	5'-20'	05/20/2009	0.2 U	—	—	0.2 U
MW-38	5'-20'	08/25/2009	0.2 U	—	—	0.2 U
MW-38	5'-20'	12/10/2009	0.2 U	—	—	0.2 U
MW-38		08/16/2017	0.05 U	0.04 U	—	0.06 U
* MW-39	5'-20'	02/24/2009	0.2 U	—	—	0.2 U
* MW-39	5'-20'	05/20/2009	0.2 U	—	—	0.2 U
* MW-39	5'-20'	08/26/2009	0.2 U	—	—	0.2 U
* MW-39	5'-20'	12/10/2009	0.2 U	—	—	0.2 U
* MW-39		08/28/2017	0.05 U	0.04 U	—	0.06 U
* MW-39		02/13/2018	0.05 U	0.04 U	—	0.06 U
* MW-42	5'-20'	02/25/2009	0.2 U	—	—	0.2 U
* MW-42	5'-20'	05/20/2009	0.2 U	—	—	0.2 U
* MW-42	5'-20'	08/26/2009	0.2 U	—	—	0.2 U
* MW-42	5'-20'	12/10/2009	0.2 U	—	—	0.2 U
* MW-42		08/23/2017	0.05 U	0.04 U	—	0.06 U
* MW-42		02/14/2018	0.05 U	0.04 U	—	0.06 U
* MW-43	30'-40'	02/25/2009	0.2 U	—	—	**0.42**
* MW-43	30'-40'	05/20/2009	0.2 U	—	—	**0.53**
* MW-43	30'-40'	08/26/2009	0.2 U	—	—	**0.67**
* MW-43	30'-40'	12/11/2009	0.2 U	—	—	**0.52**
* MW-43		08/24/2017	0.05 U	0.04 U	—	**0.35 J**
* MW-43		02/14/2018	0.05 U	0.04 U	—	**0.3**
* MW-44	50'-60'	02/25/2009	0.2 U	—	—	0.2 U
* MW-44	50'-60'	05/20/2009	0.2 U	—	—	0.2 U
* MW-44	50'-60'	08/26/2009	0.2 U	—	—	0.2 U
* MW-44	50'-60'	12/18/2009	0.2 U	—	—	0.2 U
* MW-44		08/23/2017	0.05 U	0.04 U	—	0.06 U
* MW-44		02/14/2018	0.05 U	0.04 U	—	0.06 U
Area 8						
* GP-06635	15'	11/22/1994	1 U	—	—	0.02 U
* GP-06635	25'	11/22/1994	1 U	—	—	**0.8**
* GP-06635	45'	11/22/1994	1 U	—	—	**0.21**
* GP-06635	65'	11/22/1994	1 U	—	—	**0.03**

Table B-13E: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)			
				Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
			CAS	79-01-6	75-69-4	76-13-1	75-01-4
*	GP-09113	15'	09/19/1995	1 U	—	—	0.01 U
*	GP-09113	25'	09/19/1995	1 U	—	—	**0.24**
*	GP-09113	45'	09/19/1995	1 U	—	—	**16**
*	GP-09114	15'	09/20/1995	1 U	—	—	**11**
*	GP-09114	25'	09/20/1995	1 U	—	—	0.01 U
*	GP-09114	45'	09/20/1995	1 U	—	—	**3.2**
*	GP-09115	15'	09/19/1995	1 U	—	—	0.01 U
*	GP-09115	25'	09/19/1995	1 U	—	—	**0.32**
*	GP-09115	45'	09/19/1995	1 U	—	—	**0.4**
*	MW-6		03/02/1990	0.5 U	0.5 U	—	1 U
*	MW-6		08/21/2017	0.05 U	0.04 U	—	0.06 U
*	MW-39	5'-20'	02/24/2009	0.2 U	—	—	0.2 U
*	MW-39	5'-20'	05/20/2009	0.2 U	—	—	0.2 U
*	MW-39	5'-20'	08/26/2009	0.2 U	—	—	0.2 U
*	MW-39	5'-20'	12/10/2009	0.2 U	—	—	0.2 U
*	MW-39		08/28/2017	0.05 U	0.04 U	—	0.06 U
*	MW-39		02/13/2018	0.05 U	0.04 U	—	0.06 U
*	MW-42	5'-20'	02/25/2009	0.2 U	—	—	0.2 U
*	MW-42	5'-20'	05/20/2009	0.2 U	—	—	0.2 U
*	MW-42	5'-20'	08/26/2009	0.2 U	—	—	0.2 U
*	MW-42	5'-20'	12/10/2009	0.2 U	—	—	0.2 U
*	MW-42		08/23/2017	0.05 U	0.04 U	—	0.06 U
*	MW-42		02/14/2018	0.05 U	0.04 U	—	0.06 U
*	MW-43	30'-40'	02/25/2009	0.2 U	—	—	**0.42**
*	MW-43	30'-40'	05/20/2009	0.2 U	—	—	**0.53**
*	MW-43	30'-40'	08/26/2009	0.2 U	—	—	**0.67**
*	MW-43	30'-40'	12/11/2009	0.2 U	—	—	**0.52**
*	MW-43		08/24/2017	0.05 U	0.04 U	—	**0.35 J**
*	MW-43		02/14/2018	0.05 U	0.04 U	—	**0.3**
*	MW-44	50'-60'	02/25/2009	0.2 U	—	—	0.2 U
*	MW-44	50'-60'	05/20/2009	0.2 U	—	—	0.2 U
*	MW-44	50'-60'	08/26/2009	0.2 U	—	—	0.2 U
*	MW-44	50'-60'	12/18/2009	0.2 U	—	—	0.2 U
*	MW-44		08/23/2017	0.05 U	0.04 U	—	0.06 U
*	MW-44		02/14/2018	0.05 U	0.04 U	—	0.06 U
	MW-47	5'-20'	02/25/2009	0.2 U	—	—	0.2 U
	MW-47	5'-20'	05/21/2009	0.2 U	—	—	0.2 U
	MW-47	5'-20'	08/27/2009	0.2 U	—	—	0.2 U
	MW-47	5'-20'	12/11/2009	0.2 U	—	—	0.2 U
	MW-47		08/24/2017	0.05 U	0.04 U	—	0.06 U
	MW-47		02/12/2018	0.05 U	0.04 U	—	0.06 U
	PL2-JF03A	8'-22.75'	09/28/1995	1 U	—	—	2 U
	PL2-JF03A	8'-22.75'	11/17/1995	1 U	—	—	2 U
	PL2-JF03A	8'-22.75'	03/01/1996	1 U	—	—	2 U
	PL2-JF03A	8'-22.75'	05/23/1996	1 U	—	—	2 U
	PL2-JF03A	8'-22.75'	08/26/1996	1 U	—	—	2 U
	PL2-JF03A	8'-22.75'	11/21/1996	1 U	—	—	2 U
	PL2-JF03A	8'-22.75'	04/26/2001	1 U	—	—	1 U
	PL2-JF03A	8'-22.75'	07/25/2001	1 U	—	—	1 U
	PL2-JF03A	8'-22.75'	10/24/2001	1 U	—	—	1 U
	PL2-JF03A	8'-22.75'	01/21/2002	1 U	—	—	1 U

Table B-13E: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)			
			Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
PL2-JF03A	8'-22.75'	06/16/2003	1 U	—	—	1 U
PL2-JF03A	8'-22.75'	12/08/2003	1 U	—	—	1 U
PL2-JF03A	8'-22.75'	05/10/2004	1 U	—	—	1 U
PL2-JF03A	8'-22.75'	11/01/2004	1 U	1 U	2 U	1 U
PL2-JF03A	6'-23'	05/02/2005	1 U	1 U	2 U	1 U
PL2-JF03A	8'-22.75'	10/31/2005	1 U	—	—	1 U
Area 9						
GP-06601	13'	09/12/1994	1 U	—	—	**2.5**
GP-06601	23'	09/12/1994	1 U	—	—	**22**
GP-06601	45'	09/12/1994	1 U	—	—	0.03 U
GP-06602	14'	09/13/1994	1 U	—	—	**0.36**
GP-06602	24'	09/13/1994	1 U	—	—	**0.54**
GP-06602	45'	09/13/1994	1 U	—	—	**0.09**
GP-06603	14'	09/12/1994	1 U	—	—	0.02 U
GP-06603	24'	09/12/1994	1 U	—	—	**13**
GP-06603	45'	09/12/1994	1 U	—	—	**26**
GP-06604	14'	09/13/1994	5 U	—	—	**0.61**
GP-06604	24'	09/13/1994	1 U	—	—	**0.75**
GP-06604	45'	09/13/1994	1 U	—	—	**0.82**
GP-06633	15'	11/28/1994	**6.2**	—	—	**0.82**
GP-06633	25'	11/28/1994	1 U	—	—	**16000**
GP-06633	45'	11/28/1994	1 U	—	—	**9.6 J**
GP-06633	65'	11/28/1994	1 U	—	—	**0.069**
GP-06634	15'	11/22/1994	**43**	—	—	**0.6**
GP-06634	25'	11/22/1994	1 U	—	—	**6.6**
GP-06634	45'	11/22/1994	1 U	—	—	**0.3**
GP-06634	65'	11/22/1994	1 U	—	—	0.02 U
GP-06636	15'	11/21/1994	1 U	—	—	**1.1**
GP-06636	25'	11/21/1994	1 U	—	—	**1800**
GP-06636	45'	11/21/1994	1 U	—	—	**1.3**
GP-06636	65'	11/21/1994	1 U	—	—	**0.11**
GP-06637	14'	03/15/1995	**70**	—	—	0.02 U
GP-06637	25'	03/15/1995	1 U	—	—	**1.1**
GP-06637	45'	03/15/1995	1 U	—	—	**0.85**
GP-06638	14'	03/16/1995	1 U	—	—	0.02 U
GP-06638	25'	03/16/1995	1 U	—	—	**2.7**
GP-06638	45'	03/16/1995	1 U	—	—	**0.28**
GP-06639	14'	03/16/1995	1 U	—	—	**3.8**
GP-06639	25'	03/16/1995	1 U	—	—	**90**
GP-06639	45'	03/16/1995	1 U	—	—	**4.1**
* GP-08901	14'	09/14/1994	1 U	—	—	**13**
* GP-08901	24'	09/14/1994	1 U	—	—	**25**
* GP-08902	14'	09/14/1994	1 U	—	—	**21**
* GP-08902	24'	09/14/1994	**2.8**	—	—	**54**
* GP-08903	14'	09/14/1994	1 U	—	—	**0.37**
* GP-08903	24'	09/14/1994	1 U	—	—	**25**
* GP-08904	14'	09/14/1994	1 U	—	—	0.02 U
* GP-08904	24'	09/14/1994	1 U	—	—	**0.26**
* GP-08905	14'	09/13/1994	**1.7**	—	—	0.02 U
* GP-08905	24'	09/13/1994	1 U	—	—	**0.08**
* GP-08908	14'	03/17/1995	1 U	—	—	0.02 U

Table B-13E: Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)			
				Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
			CAS	79-01-6	75-69-4	76-13-1	75-01-4
*	GP-08908	25'	03/17/1995	1 U	—	—	0.02 U
*	GP-08908	45'	03/17/1995	1 U	—	—	0.02 U
	GP-09101	15'	09/12/1994	1 U	—	—	0.03 U
	GP-09102	14'	09/08/1994	1 U	—	—	**0.71**
	GP-09103	14'	09/08/1994	1 U	—	—	**9.7**
	MW-5		03/02/1990	12.5 U	12.5 U	—	25 U
	MW-5	10'-20'	02/24/2009	0.2 U	—	—	0.2 U
	MW-5	10'-20'	05/21/2009	**0.24**	—	—	0.2 U
	MW-5	10'-20'	08/27/2009	0.2 U	—	—	0.2 U
	MW-5	10'-20'	12/11/2009	**0.62**	—	—	0.2 U
*	MW-23	6'-15.75'	09/10/1992	2 U	—	—	2 U
*	MW-23	6'-15.75'	11/10/1993	2 U	—	—	10 U
*	MW-23	6'-15.75'	12/29/2004	**1.62**	—	—	1 U
*	MW-23	6'-15.75'	01/31/2008	**2.4**	—	—	0.2 U
*	MW-23	6'-15.75'	02/26/2009	**2**	—	—	0.2 U
*	MW-23	6'-15.75'	05/21/2009	**2.2**	—	—	0.2 U
*	MW-23	6'-15.75'	08/27/2009	**1.7**	—	—	0.2 U
*	MW-23	6'-15.75'	12/11/2009	**2.2**	—	—	0.2 U
*	MW-23		08/16/2017	**0.28 J**	0.04 U	—	0.06 U
*	MW-23		02/12/2018	**0.33**	0.04 U	—	0.06 U
*	MW-24	6'-19.75'	09/17/1992	100 U	—	—	100 U
*	MW-24	6'-19.75'	11/10/1993	2 U	—	—	10 U
*	MW-24	6'-19.75'	01/31/2008	0.2 U	—	—	0.2 U
*	MW-24	6'-19.75'	02/26/2009	0.2 U	—	—	0.2 U
*	MW-24	6'-19.75'	05/20/2009	0.2 U	—	—	0.2 U
*	MW-24	6'-19.75'	08/26/2009	0.2 U	—	—	0.2 U
*	MW-24	6'-19.75'	12/10/2009	0.2 U	—	—	0.2 U
*	MW-24		08/25/2017	0.05 U	0.04 U	—	0.06 U
*	MW-24		02/09/2018	0.05 U	0.04 U	—	0.06 U
*	MW-49	23'-27'	02/13/2009	**0.55**	—	—	**1.3**
*	MW-49	5'-17'	02/26/2009	**0.71**	—	—	**1.8**
*	MW-49	5'-17'	05/21/2009	**1.2**	—	—	**0.64**
*	MW-49	5'-17'	08/27/2009	**0.69**	—	—	**0.53**
*	MW-49	5'-17'	12/11/2009	**3.1**	—	—	**1.4**
*	MW-49		08/17/2017	**0.83**	0.04 U	—	**0.07 J**
*	MW-49		02/09/2018	**2.88**	0.04 U	—	**0.09 J**
	MW-50	23'-27'	02/24/2009	0.2 U	—	—	**0.51**
	MW-50	23'-27'	05/21/2009	0.2 U	—	—	**0.39**
	MW-50	23'-27'	08/27/2009	0.2 U	—	—	**0.38**
	MW-50	23'-27'	12/11/2009	0.2 U	—	—	**0.36**
	MW-50		08/16/2017	0.05 U	0.04 U	—	**1.49**
	MW-50		02/14/2018	0.05 U	0.04 U	—	**0.2**
	MW-51	23'-27'	02/24/2009	0.2 U	—	—	**1**
	MW-51	23'-27'	05/21/2009	0.2 U	—	—	**1.3**
	MW-51	23'-27'	08/27/2009	0.2 U	—	—	**1.4**
	MW-51	23'-27'	12/11/2009	**0.24**	—	—	**1.1**
	MW-51		08/25/2017	**0.07 J**	0.04 U	—	**0.41**
	MW-51		02/14/2018	0.05 U	0.04 U	—	**0.22**
	MW-52	23'-27'	02/24/2009	0.2 U	—	—	**0.92**
	MW-52	23'-27'	05/21/2009	0.2 U	—	—	**0.77**
	MW-52	23'-27'	08/27/2009	0.2 U	—	—	**0.56**

Table B-13E: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)			
			Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
MW-52	23'-27'	12/11/2009	0.2 U	—	—	**0.69**
MW-52		08/18/2017	0.05 U	0.04 U	—	**0.64**
MW-52		08/18/2017	0.05 U	0.04 U	—	**0.55**
MW-52		02/06/2018	0.05 U	0.04 U	—	**0.83**
PL2-JF01A		03/10/1995	1 U	—	—	**2.2**
PL2-JF01A		09/27/1995	1 U	—	—	2 U
PL2-JF01A		11/17/1995	**10**	—	—	2 U
PL2-JF01A		03/01/1996	**38**	—	—	2 U
PL2-JF01A		05/23/1996	1 U	—	—	2 U
PL2-JF01A		08/26/1996	1 U	—	—	2 U
PL2-JF01A		11/21/1996	**4.7**	—	—	2 U
PL2-JF01AR	23'-27'	05/17/2001	5 U	—	—	**410**
PL2-JF01AR	23'-27'	07/25/2001	1 U	—	—	**2300**
PL2-JF01AR	23'-27'	10/24/2001	1 U	—	—	**550**
PL2-JF01AR	23'-27'	01/21/2002	5 U	—	—	**16000**
PL2-JF01AR	23'-27'	06/16/2003	100 U	—	—	**4800**
PL2-JF01AR	23'-27'	09/02/2003	25 U	—	—	**1700**
PL2-JF01AR	23'-27'	12/08/2003	30 U	—	—	**1300**
PL2-JF01AR	23'-27'	12/19/2003	20 U	—	—	**2200 J**
PL2-JF01AR	23'-27'	02/02/2004	20 U	—	—	**5400**
PL2-JF01AR	23'-27'	05/10/2004	50 U	—	—	**4500 J**
PL2-JF01AR	23.2'-27'	08/02/2004	50 U	50 U	100 U	**7000 J**
PL2-JF01AR	23.2'-27'	09/27/2004	50 U	50 U	100 U	**5000 J**
PL2-JF01AR	23'-27'	11/01/2004	1 U	1 U	2 U	**2900**
PL2-JF01AR	23'-27'	02/01/2005	50 U	—	—	**2000 J**
PL2-JF01AR	23.2'-27'	05/02/2005	1 U	1 U	2 U	—
PL2-JF01AR	23.2'-27'	05/02/2005	—	—	—	**4300**
PL2-JF01AR	23'-27'	08/01/2005	75 U	—	—	**4000**
PL2-JF01AR	23'-27'	10/31/2005	10 U	—	—	**1900 J**
PL2-JF01AR	23'-27'	02/06/2006	10 U	—	—	**1100**
PL2-JF01AR	23'-27'	05/01/2006	15 U	—	—	**2600 J**
PL2-JF01AR	23'-27'	07/31/2006	15 U	—	—	**820**
PL2-JF01AR	23.2'-27'	08/23/2006	25 U	25 U	50 U	**2100**
PL2-JF01AR	23'-27'	11/06/2006	5 U	—	—	**330**
PL2-JF01AR	23'-27'	02/01/2007	3 U	—	—	**2100**
PL2-JF01AR	23'-27'	05/02/2007	1 U	—	—	**13000**
PL2-JF01AR	23.2'-27'	08/01/2007	1 U	1 U	2 U	**2200**
PL2-JF01AR	23.2'-27'	11/12/2007	5 U	5 U	10 U	**500**
PL2-JF01AR	23'-27'	02/04/2008	5 U	—	—	**1100**
PL2-JF01AR	23.2'-27'	05/12/2008	1 U	1 U	2 U	**3000**
PL2-JF01AR	23'-27'	08/04/2008	1 U	—	—	**89**
PL2-JF01AR	23.2'-27'	02/03/2009	1 U	1 U	2 U	**7.6**
PL2-JF01AR	23'-27'	08/10/2009	1 U	—	—	**1300**
PL2-JF01AR	23.2'-27'	02/08/2010	1 U	1 U	2 U	**100**
PL2-JF01AR	23.2'-27'	08/03/2010	1 U	1 U	2 U	**26**
PL2-JF01AR	23.2'-27'	01/31/2011	0.2 U	0.2 U	0.2 U	**29**
PL2-JF01AR	23.2'-27'	08/15/2011	0.2 U	0.2 U	0.2 U	**3.6**
PL2-JF01AR	23.2'-27'	02/06/2012	0.2 U	0.5 U	0.5 U	**2.8**
PL2-JF01AR	23.2'-27'	08/06/2012	0.2 U	0.5 U	0.5 U	—
PL2-JF01AR	23.2'-27'	08/06/2012	—	—	—	**3.8**
PL2-JF01AR	23.2'-27'	01/07/2013	0.2 U	0.5 U	0.5 U	**1.8**

Table B-13E: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)			
			Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
PL2-JF01AR	23.2'-27'	08/06/2013	0.2 U	0.5 U	0.5 U	**9.3**
PL2-JF01B	40'-50'	03/31/1995	1 U	—	—	2 U
PL2-JF01B	40'-50'	09/27/1995	1 U	—	—	2 U
PL2-JF01B	40'-50'	11/17/1995	1 U	—	—	2 U
PL2-JF01B	40'-50'	03/01/1996	1 U	—	—	2 U
PL2-JF01B	40'-50'	05/23/1996	1 U	—	—	2 U
PL2-JF01B	40'-50'	08/26/1996	1 U	—	—	2 U
PL2-JF01B	40'-50'	11/21/1996	1 U	—	—	2 U
PL2-JF01B	40'-50'	04/26/2001	1 U	—	—	**130 J**
PL2-JF01B	40'-50'	07/25/2001	2 U	—	—	**170**
PL2-JF01B	40'-50'	10/24/2001	1 U	—	—	**190**
PL2-JF01B	40'-50'	01/21/2002	1 U	—	—	**150**
PL2-JF01B	40'-50'	06/16/2003	1 U	—	—	**57**
PL2-JF01B	40'-50'	09/02/2003	1 U	—	—	**240**
PL2-JF01B	40'-50'	12/08/2003	5 U	—	—	**120**
PL2-JF01B	40'-50'	12/19/2003	5 U	—	—	**170 J**
PL2-JF01B	40'-50'	02/02/2004	5 U	—	—	**100**
PL2-JF01B	40'-50'	05/10/2004	1 U	—	—	**13 J**
PL2-JF01B	40'-50'	09/27/2004	**3.8 J**	0.2 U	0.2 U	**1.2 J**
PL2-JF01B	40'-50'	11/01/2004	1 U	1 U	2 U	**62**
PL2-JF01B	40'-50'	02/01/2005	1 U	—	—	**87 J**
PL2-JF01B	40'-50'	05/02/2005	1 U	1 U	2 U	**29**
PL2-JF01B	40'-50'	08/01/2005	1 U	—	—	**55**
PL2-JF01B	40'-50'	10/31/2005	1 U	—	—	**35**
PL2-JF01B	40'-50'	02/06/2006	1 U	—	—	**160**
PL2-JF01B	40'-50'	05/01/2006	1 U	—	—	**5.1**
PL2-JF01B	40'-50'	07/31/2006	1 U	—	—	**30**
PL2-JF01B	40'-50'	08/23/2006	**7.9**	0.2 U	0.2 U	**0.3**
PL2-JF01B	40'-50'	11/06/2006	**0.2**	—	—	**7.6**
PL2-JF01B	40'-50'	02/01/2007	0.2 U	—	—	**20**
PL2-JF01B	40'-50'	05/02/2007	1 U	—	—	**2.9**
PL2-JF01B	40'-50'	08/01/2007	1 U	1 U	2 U	**2.4**
PL2-JF01B	40'-50'	11/12/2007	1 U	1 U	2 U	**7.9**
PL2-JF01B	40'-50'	02/04/2008	1 U	—	—	**20**
PL2-JF01B	40'-50'	05/12/2008	1 U	1 U	2 U	**3.5**
PL2-JF01B	40'-50'	08/04/2008	1 U	—	—	**1.8**
PL2-JF01B	40'-50'	02/03/2009	1 U	1 U	2 U	**26**
PL2-JF01B	40'-50'	08/10/2009	1 U	—	—	**9**
PL2-JF01B	40'-50'	02/08/2010	1 U	—	—	**20**
PL2-JF01B	40'-50'	08/03/2010	1 U	1 U	2 U	**12**
PL2-JF01B	40'-50'	01/31/2011	0.2 U	0.2 U	0.2 U	**14**
PL2-JF01B	40'-50'	08/15/2011	**0.2**	0.2 U	0.2 U	**0.7**
PL2-JF01B	40'-50'	02/06/2012	0.2 U	0.5 U	0.5 U	**2.7**
PL2-JF01B	40'-50'	08/06/2012	0.2 U	0.5 U	0.5 U	**0.6**
PL2-JF01B	40'-50'	01/07/2013	0.2 U	0.5 U	0.5 U	**0.8**
PL2-JF01B	40'-50'	08/06/2013	0.2 U	0.5 U	0.5 U	**0.3**
PL2-JF01C	74'-78'	05/17/2001	1 U	—	—	1 U
PL2-JF01C	74'-78'	07/25/2001	1 U	—	—	1 U
PL2-JF01C	74'-78'	10/24/2001	1 U	—	—	1 U
PL2-JF01C	74'-78'	01/21/2002	1 U	—	—	1 U
PL2-JF01C	74'-78'	06/16/2003	1 U	—	—	1 U

Table B-13E: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)			
			Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
PL2-JF01C	74'-78'	12/08/2003	1 U	—	—	1 U
PL2-JF01C	74'-78'	12/19/2003	0.2 U	—	—	0.2 U
PL2-JF01C	74'-78'	05/10/2004	1 U	—	—	1 U
PL2-JF01C	74'-78.5'	09/27/2004	**1.7 J**	0.2 U	0.2 U	**0.3 J**
PL2-JF01C	74'-78'	11/01/2004	1 U	1 U	2 U	1 U
PL2-JF01C	74'-78.5'	02/01/2005	1 U	1 U	2 U	1 U
PL2-JF01C	74'-78.5'	05/02/2005	1 U	1 U	2 U	1 U
PL2-JF01C	74'-78.5'	08/01/2005	1 U	1 U	2 U	1 U
PL2-JF01C	74'-78'	10/31/2005	1 U	—	—	1 U
PL2-JF01C	74'-78'	02/06/2006	1 U	—	—	1 U
PL2-JF01C	74'-78'	05/01/2006	1 U	—	—	1 U
PL2-JF01C	74'-78.5'	07/31/2006	2 U	2 U	2 U	2 U
PL2-JF01C	74'-78.5'	08/23/2006	**0.6 J**	0.2 U	0.2 U	0.2 U
PL2-JF01C	74'-78'	11/06/2006	1 U	—	—	1 U
PL2-JF01C	74'-78.5'	02/01/2007	0.2 U	0.2 U	0.2 U	0.2 U
PL2-JF01C	74'-78'	05/02/2007	1 U	—	—	1 U
PL2-JF01C	74'-78.5'	08/01/2007	1 U	1 U	2 U	1 U
PL2-JF01C	74'-78.5'	11/12/2007	1 U	1 U	2 U	1 U
PL2-JF01C	74'-78'	02/04/2008	1 U	—	—	1 U
PL2-JF01C	74'-78.5'	05/12/2008	1 U	1 U	2 U	1 U
PL2-JF01C	74'-78'	08/04/2008	1 U	—	—	1 U
PL2-JF01C	74'-78.5'	02/03/2009	1 U	1 U	2 U	1 U
PL2-JF01C	74'-78'	08/10/2009	1 U	—	—	1 U
PL2-JF01C	74'-78'	02/08/2010	1 U	—	—	1 U
PL2-JF01C	74'-78.5'	08/03/2010	1 U	1 U	2 U	1 U
PL2-JF01C	74'-78.5'	01/31/2011	0.2 U	0.2 U	0.2 U	0.2 U
PL2-JF01C	74'-78.5'	08/15/2011	0.2 U	0.2 U	0.2 U	0.2 U
PL2-JF01C	74'-78.5'	02/06/2012	0.2 U	0.5 U	0.5 U	0.2 U
PL2-JF01C	74'-78.5'	08/06/2012	1 U	2.5 U	2.5 U	1 U
PL2-JF01C	74'-78.5'	01/07/2013	0.2 U	0.5 U	0.5 U	0.2 U
PL2-JF01C	74'-78.5'	08/06/2013	0.2 U	0.5 U	0.5 U	0.2 U
PL2-JF02A	8'-22.75'	09/27/1995	1 U	—	—	2 U
PL2-JF02A	8'-22.75'	11/17/1995	**1.2**	—	—	2 U
PL2-JF02A	8'-22.75'	03/01/1996	1 U	—	—	2 U
PL2-JF02A	8'-22.75'	05/23/1996	1 U	—	—	2 U
PL2-JF02A	8'-22.75'	08/26/1996	1 U	—	—	2 U
PL2-JF02A	8'-22.75'	11/21/1996	**1.6**	—	—	2 U
PL2-JF02A	8'-22.75'	11/21/1996	**1.5**	—	—	2 U
PL2-JF02A	8'-22.75'	04/26/2001	1 U	—	—	**1.2 J**
PL2-JF02A	8'-22.75'	07/25/2001	1 U	—	—	**3.3**
PL2-JF02A	8'-22.75'	10/24/2001	1 U	—	—	**5.8**
PL2-JF02A	8'-22.75'	01/21/2002	1 U	—	—	**2.5**
PL2-JF02A	8'-22.75'	06/16/2003	1 U	—	—	1 U
PL2-JF02A	8'-22.75'	09/02/2003	1 U	—	—	1 U
PL2-JF02A	8'-22.75'	12/08/2003	1 U	—	—	1 U
PL2-JF02A	8'-22.75'	02/02/2004	1 U	—	—	1 U
PL2-JF02A	8'-22.75'	05/10/2004	1 U	—	—	1 U
PL2-JF02A	8'-22.75'	11/01/2004	1 U	1 U	2 U	1 U
PL2-JF02A	8'-22.75'	02/01/2005	1 U	—	—	1 U
PL2-JF02A	5.5'-23'	05/02/2005	1 U	1 U	2 U	1 U
PL2-JF02A	8'-22.75'	08/01/2005	1 U	—	—	1 U

Table B-13E: Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)			
			Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
PL2-JF02A	8'-22.75'	10/31/2005	1 U	—	—	1 U
PL2-JF02A	8'-22.75'	02/06/2006	1 U	—	—	1 U
PL2-JF02A	8'-22.75'	05/01/2006	1 U	—	—	1 U
PL2-JF02A	8'-22.75'	07/31/2006	0.2 U	—	—	**0.4**
PL2-JF02A	5.5'-23'	08/23/2006	0.2 U	0.2 U	0.2 U	**0.3**
PL2-JF02A	8'-22.75'	11/06/2006	0.2 U	—	—	**0.5**
PL2-JF02A	8'-22.75'	02/01/2007	0.2 U	—	—	**0.6**
PL2-JF02A	8'-22.75'	05/02/2007	1 U	—	—	1 U
PL2-JF02A	5.5'-23'	08/01/2007	1 U	1 U	2 U	1 U
PL2-JF02A	5.5'-23'	11/12/2007	1 U	1 U	2 U	1 U
PL2-JF02A	8'-22.75'	02/04/2008	1 U	—	—	1 U
PL2-JF02A	8'-22.75'	08/04/2008	1 U	—	—	1 U
PL2-JF02A	5.5'-23'	02/03/2009	1 U	1 U	2 U	1 U
PL2-JF02A	8'-22.75'	08/10/2009	1 U	—	—	1 U
PL2-JF02A	8'-22.75'	02/08/2010	1 U	—	—	1 U
PL2-JF02A	5.5'-23'	08/03/2010	1 U	1 U	2 U	1 U
PL2-JF02A	5.5'-23'	01/31/2011	0.2 U	0.2 U	0.2 U	0.2 U
PL2-JF02A	5.5'-23'	08/15/2011	0.2 U	0.2 U	0.2 U	0.2 U
PL2-JF02A	5.5'-23'	02/06/2012	0.2 U	0.5 U	0.5 U	0.2 U
PL2-JF02A	5.5'-23'	08/06/2012	0.2 U	0.5 U	0.5 U	0.2 U
PL2-JF02A	5.5'-23'	01/07/2013	0.2 U	0.5 U	0.5 U	0.2 U
PL2-JF02A	5.5'-23'	08/06/2013	0.2 U	0.5 U	0.5 U	0.2 U
PL2-JF04A	8'-18'	08/23/2006	0.2 U	0.2 U	0.2 U	0.2 U
T2B2	0-15'	01/13/2011	**0.5**	0.2 U	0.2 U	0.2 U
T2B3	0-15'	01/13/2011	**4.4**	0.2 U	0.2 U	**0.3**
T2B3	0-15'	01/13/2011	**4.5**	0.2 U	0.2 U	**0.3**
T2B4	0-15'	01/13/2011	**1**	0.2 U	0.2 U	0.2 U
T3B2	0-15'	01/14/2011	**6.4**	0.2 U	0.2 U	**0.6**
T3B3	0-15'	01/13/2011	**0.6**	0.2 U	0.2 U	0.2 U
T3B4	0-24'	01/13/2011	**0.2**	0.2 U	0.2 U	0.2 U
WP-266-09	13'	08/02/1993	5 U	—	—	5 U
WP-266-09	18'	08/02/1993	5 U	—	—	**675**
WP-266-09	23'	08/02/1993	5 U	—	—	**10**
WP-266-09	28'	08/02/1993	5 U	—	—	5 U
WP-266-09	33'	08/02/1993	5 U	—	—	5 U
WP-266-09	38'	08/02/1993	5 U	—	—	5 U
WP-266-09	43'	08/02/1993	5 U	—	—	5 U
WP-266-09	48'	08/02/1993	5 U	—	—	5 U
WP-266-09	53'	08/02/1993	5 U	—	—	5 U
WP-266-09	58'	08/02/1993	5 U	—	—	5 U
WP-266-09	63'	08/02/1993	5 U	—	—	5 U
WP-266-09	38'	08/04/1993	1 U	2 U	2 U	2 U

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-14A: Non-Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)	Methyl ethyl ketone (MEK)	Methyl Tert-Butyl Ether
		CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8	78-93-3	1634-04-4
Area 9													
DM-B-1	03/01/1990	11'	—	—	0.005 U	—	0.05 U	—	—	0.005 U	—	0.005 U	—
DM-SB-1	03/01/1990	0'-3.5'	—	—	0.005 U	—	0.05 U	—	—	0.005 U	—	0.005 U	—
DM-SB-2	03/01/1990	0'-3.5'	—	—	0.005 U	—	0.05 U	—	—	0.005 U	—	0.005 U	—
JF-DGP2	03/29/2012	2'	0.0011 U	0.0011 U	0.0053 U	0.0011 U	**0.064**	0.053 U	0.0053 U	0.0011 U	0.0011 U	**0.0061**	0.0011 U
JF-DGP2	03/29/2012	16'	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0062 U	0.062 U	0.0062 U	**0.001 J**	0.0012 U	**0.0032 J**	0.0012 U
JF-DGP2	03/29/2012	26'	0.0012 U	0.0012 U	0.0059 U	0.0012 U	0.006 U	0.059 U	0.0059 U	**0.003**	0.0012 U	0.0059 U	0.0012 U
JF-DGP3	03/28/2012	15'	0.0012 U	0.0012 U	0.0059 U	0.0012 U	**0.062**	0.059 U	0.0059 U	**0.013**	0.0012 U	0.0059 U	0.0012 U
JF-DGP4	03/28/2012	17'	**0.0008 J**	0.001 U	0.0052 U	**0.0007 J**	0.0052 U	0.052 U	0.0052 U	**0.0086**	0.001 U	0.0052 U	0.001 U
JF-DGP4	03/28/2012	21'	**0.0012**	0.001 U	0.0049 U	**0.0079**	0.0049 U	0.049 U	0.0049 U	**0.0096**	0.001 U	0.0049 U	0.001 U
JF-DGP4	03/28/2012	26'	0.0012 U	0.0012 U	0.0061 U	**0.075**	0.006 U	0.061 U	0.0061 U	**0.017**	0.0012 U	0.0061 U	0.0012 U
JF-DGP4	03/28/2012	31'	0.0012 U	0.0012 U	0.0059 U	**0.0014**	0.0059 U	0.059 U	0.0059 U	**0.0094**	0.0012 U	0.0059 U	0.0012 U
JF-DGP4	03/28/2012	33'	0.0012 U	0.0012 U	0.0061 U	0.0012 U	0.0061 U	0.061 U	0.0061 U	**0.013**	0.0012 U	0.0061 U	0.0012 U
JF-DGP5	03/29/2012	2'	0.0011 U	0.0011 U	0.0053 U	0.0011 U	**0.049**	0.053 U	0.0053 U	**0.0007 J**	0.0011 U	**0.0039 J**	0.0011 U
JF-DGP5	03/29/2012	16'	0.0009 U	0.0009 U	0.0047 U	0.0009 U	0.0047 U	0.047 U	0.0047 U	**0.0028**	0.0009 U	**0.004 J**	0.0009 U
JF-DGP5	03/29/2012	26'	0.0012 U	0.0012 U	0.006 U	0.0012 U	**0.051 J**	0.06 U	0.006 U	**0.0049**	0.0012 U	**0.0075**	0.0012 U
JF-DGP6	03/30/2012	18.5'	0.0016 U	0.0016 U	0.0079 U	0.0016 U	**0.1 J**	0.079 U	0.0079 U	**0.0075 J**	0.0016 U	0.0079 U	0.0016 U
JF-DGP6	03/30/2012	21'	0.0014 U	0.0014 U	0.0069 U	0.0014 U	**0.062**	0.069 U	0.0069 U	**0.015**	0.0014 U	**0.0085**	0.0014 U
JF-DGP6	03/30/2012	26'	0.075 U	0.075 U	0.38 U	0.075 U	0.38 U	3.8 U	0.38 U	0.075 U	0.075 U	0.38 U	0.075 U
SB-07202	09/08/1994	1.75-2.75'	—	—	0.0054 U	—	0.0054 U	—	—	0.0011 U	—	0.0054 U	—
SB-07202	09/12/1994	5'-6.5'	—	—	0.0057 U	—	**0.07**	—	—	0.0011 U	—	**0.019**	—
SB-07202	09/12/1994	7.5'-8.5'	—	—	0.0061 U	—	**0.11**	—	—	0.0012 U	—	**0.028**	—
SB-07202	09/12/1994	12.5'-14'	—	—	0.0064 U	—	**0.02**	—	—	0.0013 U	—	0.0064 U	—

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-14B: Non-Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)	Methyl ethyl ketone (MEK)
		CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8	78-93-3
Area 9												
DM-B-1	03/01/1990	11'	—	—	0.005 U	—	0.05 U	—	—	0.005 U	—	0.005 U
DM-SB-1	03/01/1990	0'-3.5'	—	—	0.005 U	—	0.05 U	—	—	0.005 U	—	0.005 U
DM-SB-2	03/01/1990	0'-3.5'	—	—	0.005 U	—	0.05 U	—	—	0.005 U	—	0.005 U
JF-DGP2	03/29/2012	2'	0.0011 U	0.0011 U	0.0053 U	0.0011 U	**0.064**	0.053 U	0.0053 U	0.0011 U	0.0011 U	**0.0061**
JF-DGP2	03/29/2012	16'	0.0012 U	0.0012 U	0.0062 U	0.0012 U	0.0062 U	0.062 U	0.0062 U	**0.001 J**	0.0012 U	**0.0032 J**
JF-DGP2	03/29/2012	26'	0.0012 U	0.0012 U	0.0059 U	0.0012 U	0.006 U	0.059 U	0.0059 U	**0.003**	0.0012 U	0.0059 U
JF-DGP3	03/28/2012	15'	0.0012 U	0.0012 U	0.0059 U	0.0012 U	**0.062**	0.059 U	0.0059 U	**0.013**	0.0012 U	0.0059 U
JF-DGP4	03/28/2012	17'	**0.0008 J**	0.001 U	0.0052 U	**0.0007 J**	0.0052 U	0.052 U	0.0052 U	**0.0086**	0.001 U	0.0052 U
JF-DGP4	03/28/2012	21'	**0.0012**	0.001 U	0.0049 U	**0.0079**	0.0049 U	0.049 U	0.0049 U	**0.0096**	0.001 U	0.0049 U
JF-DGP4	03/28/2012	26'	0.0012 U	0.0012 U	0.0061 U	**0.075**	0.006 U	0.061 U	0.0061 U	**0.017**	0.0012 U	0.0061 U
JF-DGP4	03/28/2012	31'	0.0012 U	0.0012 U	0.0059 U	**0.0014**	0.0059 U	0.059 U	0.0059 U	**0.0094**	0.0012 U	0.0059 U
JF-DGP4	03/28/2012	33'	0.0012 U	0.0012 U	0.0061 U	0.0012 U	0.0061 U	0.061 U	0.0061 U	**0.013**	0.0012 U	0.0061 U
JF-DGP5	03/29/2012	2'	0.0011 U	0.0011 U	0.0053 U	0.0011 U	**0.049**	0.053 U	0.0053 U	**0.0007 J**	0.0011 U	**0.0039 J**
JF-DGP5	03/29/2012	16'	0.0009 U	0.0009 U	0.0047 U	0.0009 U	0.0047 U	0.047 U	0.0047 U	**0.0028**	0.0009 U	**0.004 J**
JF-DGP5	03/29/2012	26'	0.0012 U	0.0012 U	0.006 U	0.0012 U	**0.051 J**	0.06 U	0.006 U	**0.0049**	0.0012 U	**0.0075**
JF-DGP6	03/30/2012	18.5'	0.0016 U	0.0016 U	0.0079 U	0.0016 U	**0.1 J**	0.079 U	0.0079 U	**0.0075 J**	0.0016 U	0.0079 U
JF-DGP6	03/30/2012	21'	0.0014 U	0.0014 U	0.0069 U	0.0014 U	**0.062**	0.069 U	0.0069 U	**0.015**	0.0014 U	**0.0085**
JF-DGP6	03/30/2012	26'	0.075 U	0.075 U	0.38 U	0.075 U	0.38 U	3.8 U	0.38 U	0.075 U	0.075 U	0.38 U
SB-07202	09/08/1994	1.75-2.75'	—	—	0.0054 U	—	0.0054 U	—	—	0.0011 U	—	0.0054 U
SB-07202	09/12/1994	5'-6.5'	—	—	0.0057 U	—	**0.07**	—	—	0.0011 U	—	**0.019**
SB-07202	09/12/1994	7.5'-8.5'	—	—	0.0061 U	—	**0.11**	—	—	0.0012 U	—	**0.028**
SB-07202	09/12/1994	12.5'-14'	—	—	0.0064 U	—	**0.02**	—	—	0.0013 U	—	0.0064 U

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-14C: Non-Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)					
			n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Vinyl acetate
		CAS	104-51-8	103-65-1	135-98-8	100-42-5	98-06-6	108-05-4
Area 9								
DM-B-1	03/01/1990	11'	—	—	—	0.005 U	—	0.005 U
DM-SB-1	03/01/1990	0'-3.5'	—	—	—	0.005 U	—	0.005 U
DM-SB-2	03/01/1990	0'-3.5'	—	—	—	0.005 U	—	0.005 U
JF-DGP2	03/29/2012	2'-2'	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0053 U
JF-DGP2	03/29/2012	16'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0062 U
JF-DGP2	03/29/2012	26'-26'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0059 U
JF-DGP3	03/28/2012	15'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0059 U
JF-DGP4	03/28/2012	17'	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0052 U
JF-DGP4	03/28/2012	21'	0.001 U	0.001 U	**0.0013**	0.001 U	0.001 U	0.0049 U
JF-DGP4	03/28/2012	26'-26'	0.0012 U	0.0012 U	**0.0014**	0.0012 U	0.0012 U	0.0061 U
JF-DGP4	03/28/2012	31'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0059 U
JF-DGP4	03/28/2012	33'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0061 U
JF-DGP5	03/29/2012	2'-2'	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0053 U
JF-DGP5	03/29/2012	16'	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0009 U	0.0047 U
JF-DGP5	03/29/2012	26'-26'	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.006 U
JF-DGP6	03/30/2012	18.5'	0.0016 U	0.0016 U	0.0016 U	0.0016 U	**0.0035 J**	0.0079 U
JF-DGP6	03/30/2012	21'	0.0014 U	0.0014 U	**0.0018**	0.0014 U	**0.0013 J**	0.0069 U
JF-DGP6	03/30/2012	26'-26'	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.38 U
SB-07202	09/08/1994	1.75-2.75'	—	—	—	0.0011 U	—	0.0054 U
SB-07202	09/12/1994	5'-6.5'	—	—	—	0.0011 U	—	0.0057 U
SB-07202	09/12/1994	7.5'-8.5'	—	—	—	0.0012 U	—	0.0061 U
SB-07202	09/12/1994	12.5'-14'	—	—	—	0.0013 U	—	0.0064 U

NOTES:

Bold text indicates a detected result.

Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).

* Sample appears twice in table because it is located within overlapping Site areas.

J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.

R = result rejected due to quality control failures.

U = analyte not detected above the indicated reporting limit.

CAS = Chemical Abstracts Service Number

Table B-15A: Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
		CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8
Area 1											
* GP-08901	14'	09/14/1994	—	—	—	—	5 U	—	—	1 U	—
* GP-08901	24'	09/14/1994	—	—	—	—	5 U	—	—	**18**	—
* GP-08902	14'	09/14/1994	—	—	—	—	5 U	—	—	1 U	—
* GP-08902	24'	09/14/1994	—	—	—	—	5 U	—	—	**17**	—
* GP-08903	14'	09/14/1994	—	—	—	—	5 U	—	—	1 U	—
* GP-08903	24'	09/14/1994	—	—	—	—	5 U	—	—	1 U	—
* GP-08904	14'	09/14/1994	—	—	—	—	5 U	—	—	1 U	—
* GP-08904	24'	09/14/1994	—	—	—	—	5 U	—	—	1.1 U	—
* GP-08905	14'	09/13/1994	—	—	—	—	5 U	—	—	1 U	—
* GP-08905	24'	09/13/1994	—	—	—	—	5 U	—	—	1 U	—
GP-08906	15'	11/29/1994	—	—	—	—	5 U	—	—	1 U	—
GP-08906	25'	11/29/1994	—	—	—	—	10 U	—	—	1 U	—
GP-08906	45'	11/29/1994	—	—	—	—	5 U	—	—	1 U	—
GP-08906	65'	11/29/1994	—	—	—	—	5 U	—	—	1 U	—
GP-08907	15'	11/28/1994	—	—	—	—	5 U	—	—	5.2 U	—
GP-08907	25'	11/28/1994	—	—	—	—	5 U	—	—	1 U	—
GP-08907	45'	11/28/1994	—	—	—	—	5 U	—	—	3 U	—
GP-08907	63'	11/29/1994	—	—	—	—	5 U	—	—	1 U	—
* GP-08908	14'	03/17/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-08908	25'	03/17/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-08908	45'	03/17/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09106	14'	03/14/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09106	25'	03/14/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09106	45'	03/14/1995	—	—	—	—	5 U	—	—	1 U	—
MW-22	6'-15.75'	09/17/1992	2 U	—	—	—	10 U	—	—	2 U	—
MW-22	6'-15.75'	04/13/1993	1 U	—	—	—	5 U	—	—	1 U	—
MW-22	6'-15.75'	11/10/1993	—	—	—	—	10 U	—	—	10 U	—
* MW-23	6'-15.75'	09/10/1992	—	—	—	—	10 U	—	—	2 U	—
* MW-23	6'-15.75'	11/10/1993	—	—	—	—	10 U	—	—	10 U	—
* MW-23	6'-15.75'	12/29/2004	1 U	—	—	—	—	—	—	—	—
* MW-23	6'-15.75'	02/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-23	6'-15.75'	05/21/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-23	6'-15.75'	08/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-23		02/12/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
* MW-24	6'-19.75'	09/17/1992	100 U	—	—	—	500 U	—	—	100 U	—
* MW-24	6'-19.75'	11/10/1993	—	—	—	—	**32**	—	—	10 U	—
* MW-24	6'-19.75'	02/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-24	6'-19.75'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-24	6'-19.75'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-24		02/09/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
MW-25	6'-19.75'	09/17/1992	2,000 U	—	—	—	10,000 U	—	—	2,000 U	—
MW-25	6'-19.75'	04/13/1993	1 U	—	—	—	5 U	—	—	1 U	—
MW-25	6'-19.75'	11/10/1993	—	—	—	—	10 U	—	—	10 U	—
MW-25	6'-19.75'	12/29/2004	1 U	—	—	—	—	—	—	—	—
MW-25	6'-19.75'	02/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-25	6'-19.75'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-25	6'-19.75'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-25		02/09/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
MW-30		02/09/2018	0.02 U	—	—	—	—	—	—	0.04 U	—

Table B-15A: Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
		CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8
MW-30		02/09/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
MW-48		02/12/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-48		02/12/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-48	5'-17'	02/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-48	5'-17'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-48	5'-17'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-49	23'-27'	02/13/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-49	5'-17'	02/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-49	5'-17'	05/21/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-49	5'-17'	08/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-49		02/09/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
Area 2											
MW-7		03/02/1990	—	—	1 U	—	10 U	—	—	1 U	—
MW-7	10'-20'	02/25/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-12	5'-20'	11/10/1993	—	—	—	—	10 U	—	—	10 U	—
MW-13	5'-20'	09/10/1992	—	—	—	—	10 U	—	—	2 U	—
MW-14	5'-20'	11/10/1993	—	—	—	—	10 U	—	—	10 U	—
MW-14	5'-20'	02/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-15	5'-20'	11/10/1993	—	—	—	—	10 U	—	—	10 U	—
MW-15		02/12/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
MW-32	5'-15'	02/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-36		02/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-37	10'-25'	02/25/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-37	10'-25'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-37	10'-25'	08/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-37		02/09/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
Area 3											
MW-8	5'-20'	02/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
Area 4											
MW-11	5'-20'	02/25/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
Area 5											
MW-40	10'-25'	02/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-40	10'-25'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-40	10'-25'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-40		02/08/2018	0.02 U	—	—	—	—	—	—	**0.19 J**	—
MW-41	30'-40'	02/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-41	30'-40'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-41	30'-40'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-41		02/08/2018	0.02 U	—	—	—	—	—	—	**0.12 J**	—
Area 6											
* GP-06635	15'	11/22/1994	—	—	—	—	**6.2**	—	—	**3.8**	—
* GP-06635	25'	11/22/1994	—	—	—	—	**5.9 J**	—	—	1 U	—
* GP-06635	45'	11/22/1994	—	—	—	—	**6**	—	—	1 U	—
* GP-06635	65'	11/22/1994	—	—	—	—	5 U	—	—	1 U	—
GP-06640	14'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—
GP-06640	25'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—
GP-06640	45'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—

Table B-15A: Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
		CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8
GP-09104	15'	11/23/1994	—	—	—	—	5 U	—	—	1 U	—
GP-09104	25'	11/23/1994	—	—	—	—	5 U	—	—	1 U	—
GP-09104	45'	11/23/1994	—	—	—	—	6.8 U	—	—	1 U	—
GP-09105	15'	11/23/1994	—	—	—	—	**10**	—	—	**1.5**	—
GP-09105	25'	11/23/1994	—	—	—	—	**5.4**	—	—	1 U	—
GP-09105	45'	11/23/1994	—	—	—	—	5 U	—	—	1 U	—
GP-09107	14'	03/14/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09107	25'	03/14/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09107	45'	03/14/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09108	14'	03/14/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09108	25'	03/14/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09108	45'	03/14/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09109	14'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09109	25'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09109	45'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09110	15'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09110	25'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09110	45'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09111	15'	09/20/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09111	25'	09/20/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09111	45'	09/20/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09112	15'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09112	25'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
GP-09112	45'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09113	15'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09113	25'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09113	45'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09114	15'	09/20/1995	—	—	—	—	5 U	—	—	1.9 U	—
* GP-09114	25'	09/20/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09114	45'	09/20/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09115	15'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09115	25'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09115	45'	09/19/1995	—	—	—	—	**5.3**	—	—	1 U	—
* MW-6		03/02/1990	—	—	1 U	—	10 U	—	—	1 U	—
MW-31	5'-19'	12/29/2004	**0.0403 J**	—	—	—	—	—	—	—	—
MW-31	5'-19'	02/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-31		02/06/2018	**0.13 J**	—	—	—	—	—	—	0.04 U	—
MW-45	30'-40'	02/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-45	30'-40'	05/21/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-45	30'-40'	08/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-45		02/06/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
MW-46	5'-20'	02/26/2009	**0.57**	—	—	—	5 U	—	—	0.2 U	—
MW-46	5'-20'	05/21/2009	**0.52**	—	—	—	10 U	—	—	**1.1**	—
MW-46	5'-20'	08/27/2009	**0.23**	—	—	—	5 U	—	—	0.2 U	—
MW-46		02/06/2018	**0.06 J**	—	—	—	—	—	—	0.04 U	—

Table B-15A: Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
		CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8
Area 7											
MW-38	5'-20'	02/24/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-38	5'-20'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-38	5'-20'	08/25/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-39	5'-20'	02/24/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-39	5'-20'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-39	5'-20'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-39		02/13/2018	**0.18 J**	—	—	—	—	—	—	0.04 U	—
* MW-42	5'-20'	02/25/2009	0.2 U	—	—	—	5 U	—	—	**0.21**	—
* MW-42	5'-20'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-42	5'-20'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-42		02/14/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
* MW-43	30'-40'	02/25/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-43	30'-40'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-43	30'-40'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-43		02/14/2018	**0.05 J**	—	—	—	—	—	—	0.04 U	—
* MW-44	50'-60'	02/25/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-44	50'-60'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-44	50'-60'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-44		02/14/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
Area 8											
* GP-06635	15'	11/22/1994	—	—	—	—	**6.2**	—	—	**3.8**	—
* GP-06635	25'	11/22/1994	—	—	—	—	**5.9 J**	—	—	1 U	—
* GP-06635	45'	11/22/1994	—	—	—	—	**6**	—	—	1 U	—
* GP-06635	65'	11/22/1994	—	—	—	—	5 U	—	—	1 U	—
* GP-09113	15'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09113	25'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09113	45'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09114	15'	09/20/1995	—	—	—	—	5 U	—	—	1.9 U	—
* GP-09114	25'	09/20/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09114	45'	09/20/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09115	15'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09115	25'	09/19/1995	—	—	—	—	5 U	—	—	1 U	—
* GP-09115	45'	09/19/1995	—	—	—	—	**5.3**	—	—	1 U	—
* MW-6		03/02/1990	—	—	1 U	—	10 U	—	—	1 U	—
* MW-39	5'-20'	02/24/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-39	5'-20'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-39	5'-20'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-39		02/13/2018	**0.18 J**	—	—	—	—	—	—	0.04 U	—
* MW-42	5'-20'	02/25/2009	0.2 U	—	—	—	5 U	—	—	**0.21**	—
* MW-42	5'-20'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-42	5'-20'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-42		02/14/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
* MW-43	30'-40'	02/25/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-43	30'-40'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-43	30'-40'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-43		02/14/2018	**0.05 J**	—	—	—	—	—	—	0.04 U	—
* MW-44	50'-60'	02/25/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
* MW-44	50'-60'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—

Table B-15A: Non-Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
			CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8
*	MW-44	50'-60'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-44		02/14/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
	MW-47	5'-20'	02/25/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
	MW-47	5'-20'	05/21/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
	MW-47	5'-20'	08/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
	MW-47		02/12/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
	PL2-JF03A	8'-22.75'	09/28/1995	—	—	—	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'	11/17/1995	—	—	—	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'	03/01/1996	—	—	—	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'	05/23/1996	—	—	—	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'	08/26/1996	—	—	—	—	**9.7**	—	—	1 U	—
	PL2-JF03A	8'-22.75'	11/21/1996	—	—	—	—	**18**	—	—	1 U	—
	PL2-JF03A	8'-22.75'	04/26/2001	—	—	—	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'	07/25/2001	—	—	—	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'	10/24/2001	—	—	—	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'	01/21/2002	—	—	—	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'	06/16/2003	—	—	—	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'	12/08/2003	—	—	—	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'	05/10/2004	—	—	—	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'	11/01/2004	—	—	5 U	—	5 U	—	—	1 U	—
	PL2-JF03A	6'-23'	05/02/2005	—	—	5 U	—	5 U	—	—	1 U	—
	PL2-JF03A	8'-22.75'		—	—	—	—	5 U	—	—	1 U	—
Area 9												
	GP-06601	13'	09/12/1994	—	—	—	—	5 U	—	—	1 U	—
	GP-06601	23'	09/12/1994	—	—	—	—	5 U	—	—	**8.5**	—
	GP-06601	45'	09/12/1994	—	—	—	—	**8.7**	—	—	1 U	—
	GP-06602	14'	09/13/1994	—	—	—	—	5 U	—	—	1 U	—
	GP-06602	24'	09/13/1994	—	—	—	—	5 U	—	—	**2**	—
	GP-06602	45'	09/13/1994	—	—	—	—	5 U	—	—	1 U	—
	GP-06603	14'	09/12/1994	—	—	—	—	5 U	—	—	1 U	—
	GP-06603	24'	09/12/1994	—	—	—	—	5 U	—	—	**1.1**	—
	GP-06603	45'	09/12/1994	—	—	—	—	5 U	—	—	1 U	—
	GP-06604	14'	09/13/1994	—	—	—	—	25 U	—	—	5 U	—
	GP-06604	24'	09/13/1994	—	—	—	—	5 U	—	—	**1.1**	—
	GP-06604	45'	09/13/1994	—	—	—	—	5 U	—	—	1 U	—
	GP-06633	15'	11/28/1994	—	—	—	—	5.8 U	—	—	1 U	—
	GP-06633	25'	11/28/1994	—	—	—	—	5 U	—	—	1 U	—
	GP-06633	45'	11/28/1994	—	—	—	—	5 U	—	—	2.8 U	—
	GP-06633	65'	11/28/1994	—	—	—	—	5 U	—	—	3 U	—
	GP-06634	15'	11/22/1994	—	—	—	—	**5.4**	—	—	1 U	—
	GP-06634	25'	11/22/1994	—	—	—	—	**5.2**	—	—	1 U	—
	GP-06634	45'	11/22/1994	—	—	—	—	**12 J**	—	—	**1.9 J**	—
	GP-06634	65'	11/22/1994	—	—	—	—	5 U	—	—	1 U	—
	GP-06636	15'	11/21/1994	—	—	—	—	5 U	—	—	**1.3 J**	—
	GP-06636	25'	11/21/1994	—	—	—	—	14 U	—	—	1 U	—
	GP-06636	45'	11/21/1994	—	—	—	—	14 U	—	—	1 U	—
	GP-06636	65'	11/21/1994	—	—	—	—	12 U	—	—	**1.3**	—
	GP-06637	14'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—
	GP-06637	25'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—
	GP-06637	45'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—

Table B-15A: Non-Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
			CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8
	GP-06638	14'	03/16/1995	—	—	—	—	5 U	—	—	1 U	—
	GP-06638	25'	03/16/1995	—	—	—	—	5 U	—	—	1 U	—
	GP-06638	45'	03/16/1995	—	—	—	—	5 U	—	—	1 U	—
	GP-06639	14'	03/16/1995	—	—	—	—	5 U	—	—	1 U	—
	GP-06639	25'	03/16/1995	—	—	—	—	5 U	—	—	1 U	—
	GP-06639	45'	03/16/1995	—	—	—	—	5 U	—	—	1 U	—
*	GP-08901	14'	09/14/1994	—	—	—	—	5 U	—	—	1 U	—
*	GP-08901	24'	09/14/1994	—	—	—	—	5 U	—	—	**18**	—
*	GP-08902	14'	09/14/1994	—	—	—	—	5 U	—	—	1 U	—
*	GP-08902	24'	09/14/1994	—	—	—	—	5 U	—	—	**17**	—
*	GP-08903	14'	09/14/1994	—	—	—	—	5 U	—	—	1 U	—
*	GP-08903	24'	09/14/1994	—	—	—	—	5 U	—	—	1 U	—
*	GP-08904	14'	09/14/1994	—	—	—	—	5 U	—	—	1 U	—
*	GP-08904	24'	09/14/1994	—	—	—	—	5 U	—	—	1.1 U	—
*	GP-08905	14'	09/13/1994	—	—	—	—	5 U	—	—	1 U	—
*	GP-08905	24'	09/13/1994	—	—	—	—	5 U	—	—	1 U	—
*	GP-08908	14'	03/17/1995	—	—	—	—	5 U	—	—	1 U	—
*	GP-08908	25'	03/17/1995	—	—	—	—	5 U	—	—	1 U	—
*	GP-08908	45'	03/17/1995	—	—	—	—	5 U	—	—	1 U	—
	GP-09101	15'	09/12/1994	—	—	—	—	5 U	—	—	**1.2**	—
	GP-09102	14'	09/08/1994	—	—	—	—	5 U	—	—	1 U	—
	GP-09103	14'	09/08/1994	—	—	—	—	5 U	—	—	1.9 U	—
	MW-5		03/02/1990	—	—	25 U	—	250 U	—	—	25 U	—
	MW-5	10'-20'	02/24/2009	**0.4**	—	—	—	5 U	—	—	0.2 U	—
	MW-5	10'-20'	05/21/2009	**0.84**	—	—	—	5 U	—	—	0.2 U	—
	MW-5	10'-20'	08/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-23	6'-15.75'	09/10/1992	—	—	—	—	10 U	—	—	2 U	—
*	MW-23	6'-15.75'	11/10/1993	—	—	—	—	10 U	—	—	10 U	—
*	MW-23	6'-15.75'	12/29/2004	1 U	—	—	—	—	—	—	—	—
*	MW-23	6'-15.75'	02/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-23	6'-15.75'	05/21/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-23	6'-15.75'	08/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-23		02/12/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
*	MW-24	6'-19.75'	09/17/1992	100 U	—	—	—	500 U	—	—	100 U	—
*	MW-24	6'-19.75'	11/10/1993	—	—	—	—	**32**	—	—	10 U	—
*	MW-24	6'-19.75'	02/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-24	6'-19.75'	05/20/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-24	6'-19.75'	08/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-24		02/09/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
*	MW-49	23'-27'	02/13/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-49	5'-17'	02/26/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-49	5'-17'	05/21/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-49	5'-17'	08/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
*	MW-49		02/09/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
	MW-50	23'-27'	05/21/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
	MW-50	23'-27'	08/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
	MW-50		02/14/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
	MW-51	23'-27'	05/21/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
	MW-51	23'-27'	08/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
	MW-51		02/14/2018	0.02 U	—	—	—	—	—	—	0.04 U	—

Table B-15A: Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
		CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8
MW-52	23'-27'	05/21/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-52	23'-27'	08/27/2009	0.2 U	—	—	—	5 U	—	—	0.2 U	—
MW-52		02/06/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
PL2-JF01A		03/10/1995	—	—	—	—	**5.7**	—	—	1 U	—
PL2-JF01A		09/27/1995	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01A		11/17/1995	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01A		03/01/1996	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01A		05/23/1996	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01A		08/26/1996	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01A		11/21/1996	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01AR	23'-27'	05/17/2001	—	—	—	—	25 U	—	—	5 U	—
PL2-JF01AR	23'-27'	07/25/2001	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01AR	23'-27'	10/24/2001	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01AR	23'-27'	01/21/2002	—	—	—	—	25 U	—	—	5 U	—
PL2-JF01AR	23'-27'	06/16/2003	—	—	—	—	500 U	—	—	100 U	—
PL2-JF01AR	23'-27'	09/02/2003	—	—	—	—	120 U	—	—	25 U	—
PL2-JF01AR	23'-27'	12/08/2003	—	—	—	—	150 U	—	—	30 U	—
PL2-JF01AR	23'-27'	12/19/2003	—	—	—	—	100 U	—	—	20 U	—
PL2-JF01AR	23'-27'	02/02/2004	—	—	—	—	100 U	—	—	20 U	—
PL2-JF01AR	23'-27'	05/10/2004	—	—	—	—	250 U	—	—	50 U	—
PL2-JF01AR	23.2'-27'	08/02/2004	—	—	250 U	—	250 U	—	—	50 U	—
PL2-JF01AR	23.2'-27'	09/27/2004	—	—	250 U	—	250 U	—	—	50 U	—
PL2-JF01AR	23'-27'	11/01/2004	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01AR	23'-27'	02/01/2005	—	—	—	—	250 U	—	—	50 U	—
PL2-JF01AR	23'-27'	02/06/2005	—	—	—	—	50 U	—	—	10 U	—
PL2-JF01AR	23.2'-27'	05/02/2005	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01AR	23'-27'	08/01/2005	—	—	—	—	380 U	—	—	75 U	—
PL2-JF01AR	23'-27'	10/31/2005	—	—	—	—	50 U	—	—	10 U	—
PL2-JF01AR	23'-27'	05/01/2006	—	—	—	—	75 U	—	—	15 U	—
PL2-JF01AR	23'-27'	07/31/2006	—	—	—	—	75 U	—	—	15 U	—
PL2-JF01AR	23.2'-27'	08/23/2006	—	—	120 U	—	120 U	—	—	25 U	—
PL2-JF01AR	23'-27'	11/06/2006	—	—	—	—	25 U	—	—	5 U	—
PL2-JF01AR	23'-27'	02/01/2007	—	—	—	—	15 U	—	—	3 U	—
PL2-JF01AR	23'-27'	05/02/2007	—	—	—	—	6.6 U	—	—	1 U	—
PL2-JF01AR	23.2'-27'	08/01/2007	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01AR	23.2'-27'	11/12/2007	—	—	25 U	—	25 U	—	—	5 U	—
PL2-JF01AR	23.2'-27'	05/12/2008	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01AR	23.2'-27'	02/03/2009	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01AR	23.2'-27'	02/08/2010	—	—	5 U	—	10 U	—	—	1 U	—
PL2-JF01AR	23.2'-27'	08/03/2010	—	—	5 U	—	10 U	—	—	1 U	—
PL2-JF01AR	23.2'-27'	01/31/2011	—	—	5 U	—	5 U	—	—	0.2 U	—
PL2-JF01AR	23.2'-27'	08/15/2011	—	—	5 U	—	5 U	—	—	0.2 U	—
PL2-JF01AR	23.2'-27'	02/06/2012	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF01AR	23.2'-27'	08/06/2012	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF01AR	23.2'-27'	01/07/2013	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF01AR	23.2'-27'	08/06/2013	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF01B	40'-50'	03/31/1995	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	09/27/1995	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	11/17/1995	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	03/01/1996	—	—	—	—	5 U	—	—	1 U	—

Table B-15A: Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
		CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8
PL2-JF01B	40'-50'	05/23/1996	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	08/26/1996	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	11/21/1996	—	—	—	—	**12**	—	—	1 U	—
PL2-JF01B	40'-50'	04/26/2001	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	07/25/2001	—	—	—	—	10 U	—	—	2 U	—
PL2-JF01B	40'-50'	10/24/2001	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	01/21/2002	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	06/16/2003	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	09/02/2003	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	12/08/2003	—	—	—	—	25 U	—	—	5 U	—
PL2-JF01B	40'-50'	12/19/2003	—	—	—	—	25 U	—	—	5 U	—
PL2-JF01B	40'-50'	02/02/2004	—	—	—	—	25 U	—	—	5 U	—
PL2-JF01B	40'-50'	05/10/2004	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	09/27/2004	—	—	1 U	—	1 U	—	—	0.2 U	—
PL2-JF01B	40'-50'	11/01/2004	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	02/01/2005	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	02/06/2005	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	05/02/2005	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	08/01/2005	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	10/31/2005	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	05/01/2006	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	07/31/2006	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	08/23/2006	—	—	1 U	—	4.2 U	—	—	0.2 U	—
PL2-JF01B	40'-50'	11/06/2006	—	—	—	—	3 U	—	—	0.2 U	—
PL2-JF01B	40'-50'	02/01/2007	—	—	—	—	3 U	—	—	0.2 U	—
PL2-JF01B	40'-50'	05/02/2007	—	—	—	—	6.9 U	—	—	1 U	—
PL2-JF01B	40'-50'	08/01/2007	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	11/12/2007	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	05/12/2008	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	02/03/2009	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01B	40'-50'	08/03/2010	—	—	5 U	—	10 U	—	—	1 U	—
PL2-JF01B	40'-50'	01/31/2011	—	—	5 U	—	5 U	—	—	0.2 U	—
PL2-JF01B	40'-50'	08/15/2011	—	—	5 U	—	5 U	—	—	0.2 U	—
PL2-JF01B	40'-50'	02/06/2012	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF01B	40'-50'	08/06/2012	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF01B	40'-50'	01/07/2013	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF01B	40'-50'	08/06/2013	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF01C	74'-78'	05/17/2001	—	—	—	—	**22 J**	—	—	1 U	—
PL2-JF01C	74'-78'	07/25/2001	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78'	10/24/2001	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78'	01/21/2002	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78'	06/16/2003	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78'	12/08/2003	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78'	12/19/2003	—	—	—	—	1 U	—	—	0.2 U	—
PL2-JF01C	74'-78'	05/10/2004	—	—	—	—	**5.4**	—	—	1 U	—
PL2-JF01C	74'-78.5'	09/27/2004	—	—	1 U	—	1 U	—	—	0.2 U	—
PL2-JF01C	74'-78'	11/01/2004	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78.5'	02/01/2005	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78'	02/06/2005	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78.5'	05/02/2005	—	—	5 U	—	5 U	—	—	1 U	—

Table B-15A: Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
		CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8
PL2-JF01C	74'-78.5'	08/01/2005	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78'	10/31/2005	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78'	05/01/2006	—	—	—	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78.5'	07/31/2006	—	—	10 U	—	10 U	—	—	2 U	—
PL2-JF01C	74'-78.5'	08/23/2006	—	—	1 U	—	2.1 U	—	—	0.2 U	—
PL2-JF01C	74'-78'	11/06/2006	—	—	—	—	15 U	—	—	1 U	—
PL2-JF01C	74'-78.5'	02/01/2007	—	—	3 U	—	3 U	—	—	0.2 U	—
PL2-JF01C	74'-78'	05/02/2007	—	—	—	—	8.3 U	—	—	1 U	—
PL2-JF01C	74'-78.5'	08/01/2007	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78.5'	11/12/2007	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78.5'	05/12/2008	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78.5'	02/03/2009	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF01C	74'-78.5'	08/03/2010	—	—	5 U	—	10 U	—	—	1 U	—
PL2-JF01C	74'-78.5'	01/31/2011	—	—	5 U	—	5 U	—	—	0.2 U	—
PL2-JF01C	74'-78.5'	08/15/2011	—	—	5 U	—	5 U	—	—	0.2 U	—
PL2-JF01C	74'-78.5'	02/06/2012	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF01C	74'-78.5'	08/06/2012	—	—	25 U	—	25 U	—	—	2.5 U	—
PL2-JF01C	74'-78.5'	01/07/2013	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF01C	74'-78.5'	08/06/2013	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF02A	8'-22.75'	09/27/1995	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	11/17/1995	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	03/01/1996	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	05/23/1996	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	08/26/1996	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	11/21/1996	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	11/21/1996	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	04/26/2001	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	07/25/2001	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	10/24/2001	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	01/21/2002	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	06/16/2003	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	09/02/2003	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	12/08/2003	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	02/02/2004	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	05/10/2004	—	—	—	—	**5**	—	—	1 U	—
PL2-JF02A	8'-22.75'	11/01/2004	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	02/01/2005	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	5.5'-23'	05/02/2005	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	08/01/2005	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	10/31/2005	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	02/06/2006	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	05/01/2006	—	—	—	—	5 U	—	—	1 U	—
PL2-JF02A	8'-22.75'	07/31/2006	—	—	—	—	1 U	—	—	0.2 U	—
PL2-JF02A	5.5'-23'	08/23/2006	—	—	1 U	—	5.2 U	—	—	0.2 U	—
PL2-JF02A	8'-22.75'	11/06/2006	—	—	—	—	3 U	—	—	0.2 U	—
PL2-JF02A	8'-22.75'	02/01/2007	—	—	—	—	3 U	—	—	0.2 U	—
PL2-JF02A	8'-22.75'	05/02/2007	—	—	—	—	6.8 U	—	—	1 U	—
PL2-JF02A	5.5'-23'	08/01/2007	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF02A	5.5'-23'	11/12/2007	—	—	5 U	—	5 U	—	—	1 U	—
PL2-JF02A	5.5'-23'	02/03/2009	—	—	5 U	—	5 U	—	—	1 U	—

Table B-15A: Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)								
			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
		CAS	95-63-6	108-67-8	591-78-6	99-87-6	67-64-1	107-02-8	107-13-1	75-15-0	98-82-8
PL2-JF02A	5.5'-23'	08/03/2010	—	—	5 U	—	10 U	—	—	1 U	—
PL2-JF02A	5.5'-23'	01/31/2011	—	—	5 U	—	5 U	—	—	0.2 U	—
PL2-JF02A	5.5'-23'	08/15/2011	—	—	5 U	—	5 U	—	—	0.2 U	—
PL2-JF02A	5.5'-23'	02/06/2012	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF02A	5.5'-23'	08/06/2012	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF02A	5.5'-23'	01/07/2013	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF02A	5.5'-23'	08/06/2013	—	—	5 U	—	5 U	—	—	0.5 U	—
PL2-JF04A	8'-18'	08/23/2006	—	—	1 U	—	6.9 U	—	—	0.2 U	—
T2B2	0-15'	01/13/2011	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	1 U	0.2 U	0.2 U
T2B3	0-15'	01/13/2011	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	1 U	0.2 U	0.2 U
T2B3	0-15'	01/13/2011	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	1 U	0.2 U	0.2 U
T2B4	0-15'	01/13/2011	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	1 U	0.2 U	0.2 U
T3B2	0-15'	01/14/2011	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	1 U	0.2 U	0.2 U
T3B3	0-15'	01/13/2011	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	1 U	0.2 U	0.2 U
T3B4	0-24'	01/13/2011	0.2 U	0.2 U	5 U	0.2 U	5 U	5 U	1 U	0.2 U	0.2 U
WP-266-09	38'	08/04/1993	—	—	5 U	—	6.3 U	—	—	1 U	—

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-15B: Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Methyl ethyl ketone (MEK)	Methyl isobutyl ketone (MIBK)	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Vinyl acetate
		CAS	78-93-3	108-10-1	104-51-8	103-65-1	135-98-8	100-42-5	98-06-6	108-05-4
			(micrograms per liter)							
Area 2										
MW-7		03/02/1990	1 U	1 U	—	—	—	1 U	—	1 U
Area 6										
* MW-6		03/02/1990	—	1 U	—	—	—	1 U	—	1 U
Area 8										
* MW-6		03/02/1990	—	1 U	—	—	—	1 U	—	1 U
PL2-JF03A	8'-22.75'	11/01/2004	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF03A	6'-23'	05/02/2005	5 U	5 U	—	—	—	1 U	—	5 U
Area 9										
MW-5		03/02/1990	25 U	25 U	—	—	—	25 U	—	25 U
PL2-JF01AR	23.2'-27'	08/02/2004	250 U	250 U	—	—	—	50 U	—	250 U
PL2-JF01AR	23.2'-27'	09/27/2004	250 U	250 U	—	—	—	50 U	—	250 U
PL2-JF01AR	23'-27'	11/01/2004	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01AR	23.2'-27'	05/02/2005	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01AR	23.2'-27'	08/23/2006	120 U	120 U	—	—	—	25 U	—	120 U
PL2-JF01AR	23.2'-27'	08/01/2007	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01AR	23.2'-27'	11/12/2007	25 U	25 U	—	—	—	5 U	—	25 U
PL2-JF01AR	23.2'-27'	05/12/2008	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01AR	23.2'-27'	02/03/2009	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01AR	23.2'-27'	02/08/2010	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01AR	23.2'-27'	08/03/2010	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01AR	23.2'-27'	01/31/2011	5 U	5 U	—	—	—	0.2 U	—	1 U
PL2-JF01AR	23.2'-27'	08/15/2011	5 U	5 U	—	—	—	0.2 U	—	1 U
PL2-JF01AR	23.2'-27'	02/06/2012	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF01AR	23.2'-27'	08/06/2012	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF01AR	23.2'-27'	01/07/2013	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF01AR	23.2'-27'	08/06/2013	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF01B	40'-50'	09/27/2004	1 U	1 U	—	—	—	0.2 U	—	0.2 U
PL2-JF01B	40'-50'	11/01/2004	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01B	40'-50'	05/02/2005	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01B	40'-50'	08/23/2006	1 U	—	—	—	—	0.2 U	—	0.2 U
PL2-JF01B	40'-50'	08/01/2007	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01B	40'-50'	11/12/2007	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01B	40'-50'	05/12/2008	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01B	40'-50'	02/03/2009	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01B	40'-50'	08/03/2010	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01B	40'-50'	01/31/2011	5 U	5 U	—	—	—	0.2 U	—	1 U
PL2-JF01B	40'-50'	08/15/2011	5 U	5 U	—	—	—	0.2 U	—	1 U
PL2-JF01B	40'-50'	02/06/2012	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF01B	40'-50'	08/06/2012	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF01B	40'-50'	01/07/2013	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF01B	40'-50'	08/06/2013	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF01C	74'-78.5'	09/27/2004	1 U	1 U	—	—	—	0.2 U	—	0.2 U
PL2-JF01C	74'-78'	11/01/2004	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01C	74'-78.5'	02/01/2005	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01C	74'-78.5'	05/02/2005	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01C	74'-78.5'	08/01/2005	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01C	74'-78.5'	07/31/2006	10 U	10 U	—	—	—	2 U	—	2 U
PL2-JF01C	74'-78.5'	08/23/2006	1 U	—	—	—	—	0.2 U	—	0.2 U

Table B-15B: Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)							
		CAS	Methyl ethyl ketone (MEK) 78-93-3	Methyl isobutyl ketone (MIBK) 108-10-1	n-Butylbenzene 104-51-8	n-Propylbenzene 103-65-1	sec-Butylbenzene 135-98-8	Styrene 100-42-5	tert-Butylbenzene 98-06-6	Vinyl acetate 108-05-4
PL2-JF01C	74'-78.5'	02/01/2007	1 U	—	—	—	—	0.2 U	—	0.2 U
PL2-JF01C	74'-78.5'	08/01/2007	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01C	74'-78.5'	11/12/2007	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01C	74'-78.5'	05/12/2008	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01C	74'-78.5'	02/03/2009	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01C	74'-78.5'	08/03/2010	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF01C	74'-78.5'	01/31/2011	5 U	5 U	—	—	—	0.2 U	—	1 U
PL2-JF01C	74'-78.5'	08/15/2011	5 U	5 U	—	—	—	0.2 U	—	1 U
PL2-JF01C	74'-78.5'	02/06/2012	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF01C	74'-78.5'	08/06/2012	25 U	25 U	—	—	—	2.5 U	—	2.5 U
PL2-JF01C	74'-78.5'	01/07/2013	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF01C	74'-78.5'	08/06/2013	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF02A	8'-22.75'	11/01/2004	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF02A	5.5'-23'	05/02/2005	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF02A	5.5'-23'	08/23/2006	1 U	—	—	—	—	0.2 U	—	0.2 U
PL2-JF02A	5.5'-23'	08/01/2007	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF02A	5.5'-23'	11/12/2007	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF02A	5.5'-23'	02/03/2009	—	5 U	—	—	—	1 U	—	5 U
PL2-JF02A	5.5'-23'	08/03/2010	5 U	5 U	—	—	—	1 U	—	5 U
PL2-JF02A	5.5'-23'	01/31/2011	5 U	5 U	—	—	—	0.2 U	—	1 U
PL2-JF02A	5.5'-23'	08/15/2011	5 U	5 U	—	—	—	0.2 U	—	1 U
PL2-JF02A	5.5'-23'	02/06/2012	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF02A	5.5'-23'	08/06/2012	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF02A	5.5'-23'	01/07/2013	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF02A	5.5'-23'	08/06/2013	5 U	5 U	—	—	—	0.5 U	—	0.5 U
PL2-JF04A	8'-18'	08/23/2006	1 U	—	—	—	—	0.2 U	—	0.2 U
T2B2	0-15'	01/13/2011	5 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U
T2B3	0-15'	01/13/2011	5 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U
T2B3	0-15'	01/13/2011	5 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U
T2B4	0-15'	01/13/2011	5 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U
T3B2	0-15'	01/14/2011	5 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U
T3B3	0-15'	01/13/2011	5 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U
T3B4	0-24'	01/13/2011	5 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U
WP-266-09	38'	08/04/1993	5 U	5 U	—	—	—	1 U	—	1 U

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-16A: Metals in Soil

	Sample Location	Sample Date	Sample Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron
			CAS	7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-89-6
				(milligrams per kilogram)									
Area 1													
	FB-2	10/17/2007	1'-3'	—	—	0.4 U	0.2 U	—	0.02 U	0.02 U	—	—	—
	FB-2	10/17/2007	3'-5'	—	—	0.4 U	0.2 U	—	0.02 U	0.02 U	—	—	—
	JSA-HA-1	03/06/1992	7.5'	—	—	20 U	—	—	1 U	**7**	—	**5**	—
*	SB-08916	09/13/1994	2'	**9500**	5 U	5 U	**28.8**	**0.1**	0.2 U	**14.6**	**3.8**	**12.1**	—
*	SB-08916	09/13/1994	5'	**13400**	6 U	6 U	**41.4**	**0.1**	0.2 U	**13.8**	**4.8**	**11.1**	—
*	SB-08916	09/13/1994	12.5'	**11800**	6 U	6 U	**41.4**	0.1 U	0.3 U	**14.3**	**4.1**	**21.9 J**	—
*	SB-08918	09/13/1994	2'	**8550**	5 U	5 U	**32.4**	0.1 U	**0.3**	**13.5**	**3.7**	**20**	—
*	SB-08918	09/13/1994	5'	**14500**	6 U	**8**	**48**	**0.2**	0.2 U	**15.9**	**5.2**	**14.8**	—
*	SB-08918	09/13/1994	12.5'	**20200**	6 U	**9**	**78**	**0.3**	0.3 U	**21.1**	**7.8**	**24**	—
*	SB-08921	09/13/1994	2'	**9070**	5 U	**8**	**26.4**	0.1 U	0.2 U	**11.7**	**4.7**	**11.2**	—
*	SB-08921	09/13/1994	5'	**9630**	5 U	5 U	**25.8**	**0.1**	0.2 U	**12.6**	**5.8**	**9**	—
*	SB-08921	09/13/1994	12.5'	**13800**	6 U	6 U	**45.4**	**0.2**	0.3 U	**16.9**	**5.2**	**14.8**	—
*	SB-08923	09/13/1994	2'	**13300**	6 U	**7**	**48.3**	**0.1**	0.2 U	**16.1**	**4.9**	**17.4**	—
*	SB-08923	09/13/1994	5'	**13200**	6 U	6 U	**42.5**	**0.2**	0.2 U	**15.2**	**5.2**	**14**	—
*	SB-08923	09/13/1994	12.5'	**18600**	6 U	6 U	**66.1**	**0.3**	0.3 U	**19.4**	**5.2**	**22.6**	—
Area 2													
	DM-B-12	03/01/1990	13.5'	—	—	**4**	**30.5**	—	**1.3**	**8.85**	—	—	—
	MW-13	08/27/1992	6'-6.5'	—	—	10 U	—	—	0.5 U	**9.7**	—	—	—
	MW-37	02/09/2009	6'	—	—	11 U	**47**	—	0.56 U	**35**	—	**38**	—
	MW-37	02/09/2009	11'	—	—	11 U	**52**	—	0.56 U	**36**	—	**62**	—
	MW-37	02/09/2009	15.5'	—	—	11 U	**44**	—	0.56 U	**29**	—	**34**	—
Area 5													
	FB-1	10/17/2007	6'-8'	—	—	0.4 U	0.2 U	—	0.02 U	0.02 U	—	—	—
	FB-1	10/17/2007	8'-10'	—	—	0.4 U	0.2 U	—	0.02 U	0.02 U	—	—	—
	FB-3	10/17/2007	1'-3'	—	—	0.4 U	0.2 U	—	0.02 U	0.02 U	—	—	—
	FB-3	10/17/2007	3'-5'	—	—	0.4 U	0.2 U	—	0.02 U	0.02 U	—	—	—
	MW-41	07/19/2008	5'	—	—	10 U	**21**	—	0.51 U	**7.7**	—	**9.6**	—
	MW-41	07/19/2008	10'	—	—	11 U	**22**	—	0.53 U	**18**	—	**25**	—
	MW-41	07/19/2008	20'	—	—	12 U	**19**	—	0.6 U	**4.5**	—	**7.2**	—
	MW-41	07/19/2008	30'	—	—	13 U	**23**	—	0.65 U	**6.1**	—	**8.2**	—
Area 6													
*	5-1	03/01/1990	0'	—	—	**2**	**32.4**	—	**1.15**	**37.2**	—	—	—
*	16-1	03/01/1990	0'	—	—	**6**	**59**	—	**4.31**	**1,740**	—	—	—
*	16-2	03/01/1990	0'	—	—	**5**	**53.7**	—	**2.33**	**913**	—	—	—
*	DM-B-15	02/28/1990	10'	—	—	**3**	**19.8**	—	**0.9**	**7.57**	—	—	—
*	`	02/28/1990	11.5'	—	—	**2**	**14.8**	—	**0.8**	**6.17**	—	—	—
	MW-45	02/05/2009	11'	—	—	13 U	**28**	—	0.63 U	**9.8**	—	**10**	—
	MW-45	02/05/2009	17'	—	—	12 U	**21**	—	0.62 U	**7.4**	—	**7.8**	—
	MW-45	02/05/2009	29'	—	—	12 U	**21**	—	0.6 U	**8**	—	**8.8**	—
	MW-45	02/05/2009	40'	—	—	13 U	**22**	—	0.63 U	**6.8**	—	**7.2**	—
*	SB-13	02/06/2009	4'	—	—	11 U	**20**	—	0.57 U	**7.9**	—	**9.4**	—
*	SB-13	02/06/2009	8'	—	—	12 U	**26**	—	0.6 U	**290**	—	**21**	—
*	SB-13	02/06/2009	12'	—	—	12 U	**20**	—	0.6 U	**9.3**	—	**12**	—
*	SB-13	02/06/2009	16'	—	—	13 U	**17**	—	0.64 U	**8.5**	—	**6.6**	—
*	SB-14	02/06/2009	4'	—	—	12 U	**22**	—	0.6 U	**9.9**	—	**9.5**	—
*	SB-14	02/06/2009	8'	—	—	11 U	**20**	—	0.55 U	**8.3**	—	**7.3**	—
*	SB-14	02/06/2009	12'	—	—	11 U	**26**	—	0.56 U	**1800**	—	**44**	—
*	SB-14	02/06/2009	16'	—	—	14 U	**34**	—	0.7 U	**14**	—	**15**	—

Table B-16A: Metals in Soil

	Sample Location	Sample Date	Sample Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron
			CAS	7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-89-6
				(milligrams per kilogram)									
*	SB-15	02/06/2009	4'	—	—	12 U	**24**	—	0.58 U	**8.9**	—	**11**	—
*	SB-15	02/06/2009	8'	—	—	11 U	**16**	—	0.54 U	**6.8**	—	**8.1**	—
*	SB-15	02/06/2009	12'	—	—	12 U	**32**	—	0.6 U	**24**	—	**23**	—
*	SB-15	02/06/2009	16'	—	—	14 U	**47**	—	0.72 U	**17**	—	**22**	—
*	SB-16	02/06/2009	4'	—	—	12 U	**23**	—	0.61 U	**8**	—	**13**	—
*	SB-16	02/06/2009	8'	—	—	12 U	**19**	—	0.6 U	**7.6**	—	**8.6**	—
*	SB-16	02/06/2009	12'	—	—	12 U	**35**	—	0.6 U	**1800**	—	**89**	—
*	SB-16	02/06/2009	16'	—	—	14 U	**25**	—	0.68 U	**9**	—	**9.9**	—
*	SB-17	02/06/2009	2'	—	—	12 U	**21**	—	0.59 U	**19**	—	**9.6**	—
*	SB-17	02/06/2009	4'	—	—	12 U	**29**	—	0.59 U	**12**	—	**14**	—
*	SB-17	02/06/2009	6'	—	—	12 U	**28**	—	0.6 U	**11**	—	**13**	—
*	SB-18	02/05/2009	2'	—	—	12 U	**31**	—	0.6 U	**14**	—	**13**	—
*	SB-18	02/05/2009	4'	—	—	13 U	**26**	—	0.66 U	**9.5**	—	**13**	—
*	SB-18	02/05/2009	6'	—	—	14 U	**43**	—	0.72 U	**18**	—	**26**	—
*	SB-19	02/05/2009	2'	—	—	11 U	**51**	—	0.57 U	**87**	—	**44**	—
*	SB-19	02/05/2009	4'	—	—	12 U	**39**	—	0.59 U	**16**	—	**23**	—
*	SB-19	02/05/2009	6'	—	—	13 U	**32**	—	0.63 U	**14**	—	**19**	—
	Area 7												
*	9-1	03/01/1990	0'	—	—	**2**	**20.6**	—	**1.75**	**914**	—	—	—
	9-2	03/01/1990	0'	—	—	**3**	**25**	—	**2.58**	**6,500**	—	—	—
	9-3	03/01/1990	0'	—	—	**3**	**58.9**	—	**2.98**	**1,910**	—	—	—
	9-4	03/01/1990	0'	—	—	**3**	**162**	—	**4.92**	**504**	—	—	—
	17-1	03/01/1990	0'	—	—	**6.1**	**130**	—	**5.13**	**780**	—	—	—
	17-2	03/01/1990	0'	—	—	**6.5**	**49.2**	—	**3.8**	**282**	—	—	—
	17-3	03/01/1990	0'	—	—	**7.1**	**39.5**	—	**2.86**	**301**	—	—	—
	17-4	03/01/1990	0'	—	—	**5**	**82.2**	—	**7.02**	**3,720**	—	—	—
	MW-38	02/09/2009	5'	—	—	12 U	**39**	—	0.59 U	**15**	—	**15**	—
	MW-38	02/09/2009	9.5'	—	—	12 U	**58**	—	0.58 U	**940**	—	**100**	—
	MW-38	02/09/2009	15.5'	—	—	13 U	**32**	—	0.67 U	**11**	—	**12**	—
*	MW-39	02/11/2001	6.3'	—	—	—	**50**	—	—	—	—	—	—
*	MW-39	02/11/2009	6.3'	—	—	12 U	—	—	**1.8**	**1,000**	—	**140**	—
*	MW-39	02/11/2001	10'	—	—	—	**87**	—	—	—	—	—	—
*	MW-39	02/11/2009	10'	—	—	14 U	—	—	0.68 U	**1,100**	—	**66**	—
*	MW-44	02/05/2009	5'	—	—	11 U	**16**	—	0.55 U	**9.3**	—	**6.4**	—
*	MW-44	02/05/2009	9'	—	—	11 U	**31**	—	0.56 U	**37**	—	**14**	—
*	MW-44	02/05/2009	15'	—	—	13 U	**39**	—	0.63 U	**32**	—	**13**	—
*	MW-44	02/05/2009	28'	—	—	13 U	**32**	—	0.64 U	**9.8**	—	**14**	—
*	MW-44	02/05/2009	45'	—	—	13 U	**11**	—	0.63 U	**7.2**	—	**8.9**	—
*	MW-44	02/05/2009	60'	—	—	13 U	**13**	—	0.64 U	**7.7**	—	**11**	—
*	SB6	08/27/2004	0'-2'	—	—	**7.25**	—	—	0.892 U	**593**	—	**220**	—
*	SB6	08/27/2004	2'-4'	—	—	**62.7**	—	—	**0.0799 J**	**1170**	—	**955**	—
*	SB6	08/27/2004	4'-6'	—	—	**33.4**	—	—	0.219 U	**1550**	—	**717**	—
*	SB6	08/27/2004	6'-8'	—	—	**19.1**	—	—	0.252 U	**606**	—	**264**	—
*	SB7	08/27/2004	0'-2'	—	—	**8.47**	—	—	1.09 U	**3200**	—	**262**	—
*	SB7	08/27/2004	2'-4'	—	—	**15.8**	—	—	**1.97**	**410**	—	**130**	—
*	SB7	08/27/2004	4'-6'	—	—	**15.1**	—	—	**3.19**	**1950**	—	**271**	—
*	SB7	08/27/2004	6'-8'	—	—	**14.2**	—	—	**0.446**	**1,000**	—	**205**	—

Table B-16A: Metals in Soil

	Sample Location	Sample Date	Sample Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron
			CAS	7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-89-6
				(milligrams per kilogram)									
Area 8													
*	5-1	03/01/1990	0'	—	—	**2**	**32.4**	—	**1.15**	**37.2**	—	—	—
*	9-1	03/01/1990	0'	—	—	**2**	**20.6**	—	**1.75**	**914**	—	—	—
*	16-1	03/01/1990	0'	—	—	**6**	**59**	—	**4.31**	**1,740**	—	—	—
*	16-2	03/01/1990	0'	—	—	**5**	**53.7**	—	**2.33**	**913**	—	—	—
*	DM-B-15	02/28/1990	10'	—	—	**3**	**19.8**	—	**0.9**	**7.57**	—	—	—
*	`	02/28/1990	11.5'	—	—	**2**	**14.8**	—	**0.8**	**6.17**	—	—	—
	JF-SB3BA1-6	09/06/2013	2.5'e	—	—	**10.4**	—	—	**1.35**	**151**	—	**52.7**	—
	JF-SB3BA2-6	09/06/2013	2.5'	—	—	**2.12**	—	—	1 U	**8.01**	—	**7.38**	—
	JF-SB3BA2-6	09/06/2013	2.5'	—	—	**2.37**	—	—	1 U	**7.82**	—	**7.29**	—
	JF-SB3ESW-6	09/06/2013	1.5'	—	—	**3.18**	—	—	1 U	**25.3**	—	**18.7**	—
	JF-SB3NSW-6	09/06/2013	1'	—	—	**7.25**	—	—	1 U	**561**	—	**60.1**	—
	JF-SB4BA1-9	09/09/2013	6'	—	—	**2.34**	—	—	1 U	**6.76**	—	**8.06**	—
	JF-SB4BA2-9	09/09/2013	6'	—	—	**7.59**	—	—	1 U	**298**	—	**42.8**	—
	JF-SB4BA3-9	09/09/2013	6'	—	—	**1.78**	—	—	1 U	**11.9**	—	**6.49**	—
	JF-SB4ESW-9	09/09/2013	3'	—	—	**2.25**	—	—	1 U	**5.31**	—	**8.73**	—
	JF-SB4NSW-9	09/09/2013	4'	—	—	**3.21**	—	—	1 U	**116**	—	**31.9**	—
	JF-SB4SSW-9	09/09/2013	4'	—	—	**5.93**	—	—	1 U	**298**	—	**35.2**	—
*	MW-39	02/11/2001	6.3'	—	—	—	**50**	—	—	—	—	—	—
*	MW-39	02/11/2009	6.3'	—	—	12 U	—	—	**1.8**	**1,000**	—	**140**	—
*	MW-39	02/11/2001	10'	—	—	—	**87**	—	—	—	—	—	—
*	MW-39	02/11/2009	10'	—	—	14 U	—	—	0.68 U	**1,100**	—	**66**	—
*	MW-44	02/05/2009	5'	—	—	11 U	**16**	—	0.55 U	**9.3**	—	**6.4**	—
*	MW-44	02/05/2009	9'	—	—	11 U	**31**	—	0.56 U	**37**	—	**14**	—
*	MW-44	02/05/2009	15'	—	—	13 U	**39**	—	0.63 U	**32**	—	**13**	—
*	MW-44	02/05/2009	28'	—	—	13 U	**32**	—	0.64 U	**9.8**	—	**14**	—
*	MW-44	02/05/2009	45'	—	—	13 U	**11**	—	0.63 U	**7.2**	—	**8.9**	—
*	MW-44	02/05/2009	60'	—	—	13 U	**13**	—	0.64 U	**7.7**	—	**11**	—
	PEB-4	08/25/2014	0'-1'	—	—	**12.9**	—	—	**0.5 J**	**481**	—	**95.5 J**	—
	PEB-5	08/25/2014	0'-1'	—	—	**4.1**	—	—	**0.1 J**	**54.2**	—	**2.3 J**	—
	PEB-6	08/25/2014	0'-1'	—	—	**8**	—	—	**0.4 J**	**1,130**	—	**61.2 J**	—
*	SB-13	02/06/2009	4'	—	—	11 U	**20**	—	0.57 U	**7.9**	—	**9.4**	—
*	SB-13	02/06/2009	8'	—	—	12 U	**26**	—	0.6 U	**290**	—	**21**	—
*	SB-13	02/06/2009	12'	—	—	12 U	**20**	—	0.6 U	**9.3**	—	**12**	—
*	SB-13	02/06/2009	16'	—	—	13 U	**17**	—	0.64 U	**8.5**	—	**6.6**	—
*	SB-14	02/06/2009	4'	—	—	12 U	**22**	—	0.6 U	**9.9**	—	**9.5**	—
*	SB-14	02/06/2009	8'	—	—	11 U	**20**	—	0.55 U	**8.3**	—	**7.3**	—
*	SB-14	02/06/2009	12'	—	—	11 U	**26**	—	0.56 U	**1800**	—	**44**	—
*	SB-14	02/06/2009	16'	—	—	14 U	**34**	—	0.7 U	**14**	—	**15**	—
*	SB-15	02/06/2009	4'	—	—	12 U	**24**	—	0.58 U	**8.9**	—	**11**	—
*	SB-15	02/06/2009	8'	—	—	11 U	**16**	—	0.54 U	**6.8**	—	**8.1**	—
*	SB-15	02/06/2009	12'	—	—	12 U	**32**	—	0.6 U	**24**	—	**23**	—
*	SB-15	02/06/2009	16'	—	—	14 U	**47**	—	0.72 U	**17**	—	**22**	—
*	SB-16	02/06/2009	4'	—	—	12 U	**23**	—	0.61 U	**8**	—	**13**	—
*	SB-16	02/06/2009	8'	—	—	12 U	**19**	—	0.6 U	**7.6**	—	**8.6**	—
*	SB-16	02/06/2009	12'	—	—	12 U	**35**	—	0.6 U	**1800**	—	**89**	—
*	SB-16	02/06/2009	16'	—	—	14 U	**25**	—	0.68 U	**9**	—	**9.9**	—
*	SB-17	02/06/2009	2'	—	—	12 U	**21**	—	0.59 U	**19**	—	**9.6**	—
*	SB-17	02/06/2009	4'	—	—	12 U	**29**	—	0.59 U	**12**	—	**14**	—
*	SB-17	02/06/2009	6'	—	—	12 U	**28**	—	0.6 U	**11**	—	**13**	—
*	SB-18	02/05/2009	2'	—	—	12 U	**31**	—	0.6 U	**14**	—	**13**	—

Table B-16A: Metals in Soil

	Sample Location	Sample Date	Sample Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron
			CAS	7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-89-6
				(milligrams per kilogram)									
*	SB-18	02/05/2009	4'	—	—	13 U	**26**	—	0.66 U	**9.5**	—	**13**	—
*	SB-18	02/05/2009	6'	—	—	14 U	**43**	—	0.72 U	**18**	—	**26**	—
*	SB-19	02/05/2009	2'	—	—	11 U	**51**	—	0.57 U	**87**	—	**44**	—
*	SB-19	02/05/2009	4'	—	—	12 U	**39**	—	0.59 U	**16**	—	**23**	—
*	SB-19	02/05/2009	6'	—	—	13 U	**32**	—	0.63 U	**14**	—	**19**	—
	SB2	08/26/2004	0'-2'	—	—	**16.6**	—	—	1.15 U	**829**	—	**169**	—
	SB2	08/26/2004	2'-4'	—	—	**14.6**	—	—	1.06 U	**707**	—	**104**	—
	SB2	08/26/2004	4'-6'	—	—	**9.47**	—	—	0.283 U	**588**	—	**74.5**	—
	SB2	08/26/2004	6'-8'	—	—	**8.14**	—	—	0.265 U	**618**	—	**115**	—
	SB3	08/26/2004	0'-2'e	—	—	**20.3**	—	—	**2.2**	**282**	—	**156**	—
	SB3	08/26/2004	2'-4'	—	—	**61.7**	—	—	1.02 U	**1,170**	—	**541**	—
	SB3	08/26/2004	4'-6'	—	—	**20.1**	—	—	0.266 U	**765**	—	**188**	—
	SB3	08/26/2004	6'-8'	—	—	**7.65**	—	—	0.252 U	**772**	—	**72.9**	—
	SB4	08/26/2004	0'-2'e	—	—	**14.1**	—	—	**0.584 J**	**507**	—	**216**	—
	SB4	08/26/2004	2'-4'e	—	—	**9.17**	—	—	1.1 U	**476**	—	**72.9**	—
	SB4	08/26/2004	4'-6'e	—	—	**16**	—	—	0.289 U	**666**	—	**171**	—
	SB4	08/26/2004	6'-8'	—	—	**7.67**	—	—	0.288 U	**691**	—	**68.8**	—
	SB5	08/26/2004	0'-2'	—	—	**3.47**	—	—	0.967 U	**560**	—	**40.2**	—
	SB5	08/26/2004	2'-4'	—	—	**6.44**	—	—	1.25 U	**961**	—	**77.3**	—
	SB5	08/26/2004	4'-6'	—	—	**3.75**	—	—	0.282 U	**799**	—	**69.1**	—
	SB5	08/26/2004	6'-8'	—	—	**9.1**	—	—	0.319 U	**889**	—	**102**	—
*	SB6	08/27/2004	0'-2'	—	—	**7.25**	—	—	0.892 U	**593**	—	**220**	—
*	SB6	08/27/2004	2'-4'	—	—	**62.7**	—	—	**0.0799 J**	**1170**	—	**955**	—
*	SB6	08/27/2004	4'-6'	—	—	**33.4**	—	—	0.219 U	**1550**	—	**717**	—
*	SB6	08/27/2004	6'-8'	—	—	**19.1**	—	—	0.252 U	**606**	—	**264**	—
*	SB7	08/27/2004	0'-2'	—	—	**8.47**	—	—	1.09 U	**3200**	—	**262**	—
*	SB7	08/27/2004	2'-4'	—	—	**15.8**	—	—	**1.97**	**410**	—	**130**	—
*	SB7	08/27/2004	4'-6'	—	—	**15.1**	—	—	**3.19**	**1950**	—	**271**	—
*	SB7	08/27/2004	6'-8'	—	—	**14.2**	—	—	**0.446**	**1,000**	—	**205**	—
Area 9													
	JF-DGP2	03/29/2012	0'-10'	—	5 U	**8**	**50.2 J**	—	**0.9**	**24**	—	**94.5 J**	—
	JF-DGP2	03/29/2012	10'-11.8'	—	20 U	**30**	**67 J**	—	**1.3**	**61**	—	**134 J**	—
	JF-DGP2	03/29/2012	10'-20'	—	6 U	6 U	**26.7 J**	—	**0.5**	**27.4**	—	**40.4 J**	—
	JF-DGP2	03/29/2012	20'-30'	—	6 U	6 U	**13.5 J**	—	**0.4**	**13.5**	—	**11.1 J**	—
	JF-DGP4	03/28/2012	20'-22'	—	20 U	20 U	**35.9 J**	—	**4.4 J**	**66**	—	**87.8**	—
	JF-DGP5	03/29/2012	0'-10'	—	30 U	30 U	**66 J**	—	**19**	**62**	—	**110 J**	—
	JF-DGP5	03/29/2012	10'-20'	—	5 U	5 U	**48.3 J**	—	**0.2**	**23.7**	—	**30.9 J**	—
	JF-DGP5	03/29/2012	20'-30'	—	6 U	6 U	**34.4 J**	—	**0.7**	**35.9**	—	**28.8 J**	—
	PEB-1	08/25/2014	0'-1'	—	—	**9.9**	—	—	**1.1 J**	**30**	—	**96.1 J**	—
	PEB-2	08/25/2014	0'-1'	—	—	**3.8**	—	—	**0.5 J**	**23.3**	—	**27.7 J**	—
	PEB-3	08/25/2014	0'-1'	—	—	**5.8**	—	—	**0.4 J**	**629**	—	**90.7 J**	—
	SB-07201		1.5-2.5'	—	**5 J**	**6**	—	**0.2**	**1.5**	**49.9**	—	**23.3**	—
	SB-07201		5'-6.5'	—	—	**7**	—	**0.3**	**0.3**	**18.9**	—	**20**	—
	SB-07201		12.5'-14.25'	—	—	7 U	—	**0.3**	0.3 U	**17.7**	—	**20.3**	—
	SB-07202	09/08/1994	1.75-2.75'	**9830**	—	**6**	**220**	**0.1**	**2.9**	**75.2**	**5.3**	**21.3**	**18,400**
	SB-07202	09/12/1994	5'-6.5'	**11900**	—	**6**	**99.6 J**	**0.1**	**2.8 J**	**23.8**	**5.1**	**15.8**	**14,300**
	SB-07202	09/12/1994	7.5'-8.5'	**10800**	—	5 U	**35.6**	**0.1**	**0.7**	**12.5**	**4.6**	**11.6**	**11,500**
	SB-07202	09/12/1994	12.5'-14'	**16500**	—	6 U	**66.8**	**0.2**	0.3 U	**16.4**	**4.4**	**15.3**	**13,900**
*	SB-08916	09/13/1994	2'	**9500**	5 U	5 U	**28.8**	**0.1**	0.2 U	**14.6**	**3.8**	**12.1**	—
*	SB-08916	09/13/1994	5'	**13400**	6 U	6 U	**41.4**	**0.1**	0.2 U	**13.8**	**4.8**	**11.1**	—
*	SB-08916	09/13/1994	12.5'	**11800**	6 U	6 U	**41.4**	0.1 U	0.3 U	**14.3**	**4.1**	**21.9 J**	—

Table B-16A: Metals in Soil

	Sample Location	Sample Date	Sample Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron
			CAS	7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-89-6
				(milligrams per kilogram)									
*	SB-08918	09/13/1994	2'	**8550**	5 U	5 U	**32.4**	0.1 U	**0.3**	**13.5**	**3.7**	**20**	—
*	SB-08918	09/13/1994	5'	**14500**	6 U	**8**	**48**	**0.2**	0.2 U	**15.9**	**5.2**	**14.8**	—
*	SB-08918	09/13/1994	12.5'	**20200**	6 U	**9**	**78**	**0.3**	0.3 U	**21.1**	**7.8**	**24**	—
*	SB-08921	09/13/1994	2'	**9070**	5 U	**8**	**26.4**	0.1 U	0.2 U	**11.7**	**4.7**	**11.2**	—
*	SB-08921	09/13/1994	5'	**9630**	5 U	5 U	**25.8**	**0.1**	0.2 U	**12.6**	**5.8**	**9**	—
*	SB-08921	09/13/1994	12.5'	**13800**	6 U	6 U	**45.4**	**0.2**	0.3 U	**16.9**	**5.2**	**14.8**	—
*	SB-08923	09/13/1994	2'	**13300**	6 U	**7**	**48.3**	**0.1**	0.2 U	**16.1**	**4.9**	**17.4**	—
*	SB-08923	09/13/1994	5'	**13200**	6 U	6 U	**42.5**	**0.2**	0.2 U	**15.2**	**5.2**	**14**	—
*	SB-08923	09/13/1994	12.5'	**18600**	6 U	6 U	**66.1**	**0.3**	0.3 U	**19.4**	**5.2**	**22.6**	—
	SB-09101	09/12/1994	2'	**11100**	—	5 U	**36.7**	**0.1**	0.2 U	**20.8**	**5.8**	**15.5**	—
	SB-09101	09/12/1994	5'	**9460**	—	5 U	**26.9**	0.1 U	0.2 U	**14.4**	**4.6**	**11.9**	—
	SB-09101	09/12/1994	12.5'	**24200**	—	**12**	**97.5**	**0.3**	0.3 U	**24**	**6.6**	**27.2**	—
	SB-09105	09/12/1994	2'	**8900**	—	**6**	**25.8**	0.1 U	0.2 U	**11.5**	**4.2**	**9.6**	—
	SB-09105	09/12/1994	5'	**18700**	—	**8**	**63.9**	**0.2**	0.3 U	**21.8**	**6.3**	**21.6**	—
	SB-09105	09/12/1994	12.5'	**16100**	—	**7**	**59.2**	**0.2**	0.3 U	**18.5**	**5.7**	**18.8**	—
	SB-09106	09/12/1994	2'	**10100**	—	**13**	**38.9**	0.1 U	**0.6**	**111**	**15.5**	**91.8**	—
	SB-09106	09/12/1994	5'	**18600**	—	7 U	**74.7**	**0.3**	0.3 U	**20.5**	**6.9**	**21.6**	—
	SB-09106	09/12/1994	12.5'	**12300**	—	6 U	**40.7**	0.1 U	0.3 U	**15.9**	**4.5**	**12.4**	—
	SB1	08/26/2004	0'-2'	—	—	**25.7**	—	—	**4.5**	**515**	—	**334**	—
	SB1	08/26/2004	2'-4'	—	—	**5.98**	—	—	1.06 U	**209**	—	**59.6**	—
	T2B1	01/13/2011	3'-5'	—	—	6 U	—	—	**0.4**	—	—	**17.4**	—
	T2B1	01/13/2011	8'-10'	—	—	**6**	—	—	0.2 U	—	—	**20.9**	—
	T2B1	01/13/2011	13'-15'	—	—	7 U	—	—	**0.4**	—	—	**20.5**	—
	T2B2	01/13/2011	3'-5'	—	—	**19**	—	—	**0.3**	—	—	**44.5**	—
	T2B2	01/13/2011	8'-10'	—	—	**7**	—	—	**0.3**	—	—	**25.7**	—
	T2B2	01/13/2011	13'-15'	—	—	6 U	—	—	0.3 U	—	—	**17**	—
	T2B3	01/13/2011	2'-4'	—	—	**8**	—	—	**0.4**	—	—	**37.8**	—
	T2B3	01/13/2011	8'-10'	—	—	**8**	—	—	**0.3**	—	—	**43.3**	—
	T2B3	01/13/2011	13'-15'	—	—	**7**	—	—	**0.3**	—	—	**30.6**	—
	T2B4	01/13/2011	3'-5'	—	—	**8**	—	—	**0.8**	—	—	**48.2**	—
	T2B4	12/06/2012	15'-20'	—	—	0.2 U	**0.1**	—	**0.04**	0.02 U	—	—	—
	T2B4	01/13/2011	18'-20'	—	—	**14**	—	—	**29.4**	—	—	**688**	—
	T2B4	01/13/2011	23'-25'	—	—	**180**	—	—	**2.1**	—	—	**209**	—
	T2B4	12/06/2012	23'-24.5'	—	—	0.2 U	**0.06**	—	0.01 U	0.02 U	—	—	—
	T3B1	01/13/2011	3'-5'	—	—	6 U	—	—	0.2 U	—	—	**15.4**	—
	T3B1	01/13/2011	8'-10'	—	—	6 U	—	—	0.2 U	—	—	**14.7**	—
	T3B1	01/13/2011	13'-15'	—	—	**7**	—	—	0.3 U	—	—	**29.2**	—
	T3B2	01/13/2011	3'-5'	—	—	5 U	—	—	0.2 U	—	—	**16.3**	—
	T3B2	01/13/2011	8'-10'	—	—	6 U	—	—	0.3 U	—	—	**22**	—
	T3B2	01/13/2011	13'-15'	—	—	6 U	—	—	0.3 U	—	—	**24.9**	—
	T3B2	01/13/2011	13'-15'	—	—	6 U	—	—	0.2 U	—	—	**25.1**	—

Table B-16A: Metals in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)									
		CAS	Aluminum 7429-90-5	Antimony 7440-36-0	Arsenic 7440-38-2	Barium 7440-39-3	Beryllium 7440-41-7	Cadmium 7440-43-9	Chromium 7440-47-3	Cobalt 7440-48-4	Copper 7440-50-8	Iron 7439-89-6
T3B3	01/13/2011	3'-5'	—	—	6 U	—	—	**2.1**	—	—	**62.6**	—
T3B3	01/13/2011	8'-10'	—	—	20 U	—	—	**6.5**	—	—	**354**	—
T3B3	01/13/2011	13'-15'	—	—	6 U	—	—	**0.5**	—	—	**38.8**	—
T3B4	01/13/2011	3'-5'	—	—	10 U	—	—	**6.9**	—	—	**111**	—
T3B4	01/13/2011	13'-15'	—	—	**7**	—	—	0.2 U	—	—	**51.8**	—
T3B4	01/13/2011	23'-25'	—	—	6 U	—	—	0.2 U	—	—	**10.5**	—

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-16B: Metals in Soil

	Sample Location	Sample Date	Sample Depth	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
							(milligrams per kilogram)					
Area 1												
	FB-2	10/17/2007	1'-3'	0.2 U	—	0.005 U	—	0.4 U	0.02 U	—	—	—
	FB-2	10/17/2007	3'-5'	0.2 U	—	0.005 U	—	0.4 U	0.02 U	—	—	—
	JSA-HA-1	03/06/1992	7.5'	10 U	—	—	**6**	—	—	—	—	**20**
*	SB-08916	09/13/1994	2'	**10**	—	0.05 U	**11**	5 U	0.3 U	5 U	**39.3**	**64.1**
*	SB-08916	09/13/1994	5'	**3**	—	0.06 U	**9**	6 U	0.3 U	6 U	**40.8**	**27.2**
*	SB-08916	09/13/1994	12.5'	3 U	—	0.06 U	**10**	6 U	0.4 U	6 U	**50.3**	**24.7**
*	SB-08918	09/13/1994	2'	**20**	—	0.05 U	**13**	5 U	0.3 U	5 U	**39.7**	**124**
*	SB-08918	09/13/1994	5'	**6**	—	0.05 U	**12**	6 U	0.3 U	6 U	**47.7**	**32.1**
*	SB-08918	09/13/1994	12.5'	**7**	—	0.06 U	**16**	6 U	0.4 U	6 U	**61.6**	**37.5**
*	SB-08921	09/13/1994	2'	**14**	—	0.05 U	**10**	5 U	0.3 U	5 U	**39.6**	**41.8**
*	SB-08921	09/13/1994	5'	**5**	—	0.05 U	**12**	**6**	0.3 U	5 U	**38.4**	**28.1**
*	SB-08921	09/13/1994	12.5'	3 U	—	0.06 U	**11**	6 U	0.4 U	6 U	**50.6**	**27.1**
*	SB-08923	09/13/1994	2'	**9**	—	0.06 U	**11**	6 U	0.3 U	6 U	**49.8**	**33.1**
*	SB-08923	09/13/1994	5'	**7**	—	0.05 U	**12**	6 U	0.3 U	6 U	**45.9**	**30.4**
*	SB-08923	09/13/1994	12.5'	**5**	—	0.06 U	**13**	6 U	0.4 U	6 U	**59.8**	**27.4**
Area 2												
	DM-B-12	03/01/1990	13.5'	0.98 U	—	0.04 U	—	0.6 U	0.2 U	—	—	—
	MW-13	08/27/1992	6'-6.5'	5 U	—	—	—	—	—	—	—	—
	MW-37	02/09/2009	6'	**81**	—	0.28 U	**100**	11 U	0.56 U	—	—	**75**
	MW-37	02/09/2009	11'	**350**	—	0.28 U	**45**	11 U	0.56 U	—	—	**170**
	MW-37	02/09/2009	15.5'	**41**	—	0.28 U	**110**	11 U	0.56 U	—	—	**60**
Area 3												
	T2-10	03/12/1991	9.5'	**9.7**	—	—	—	—	—	—	—	—
Area 5												
	FB-1	10/17/2007	6'-8'	0.2 U	—	0.005 U	—	0.4 U	0.02 U	—	—	—
	FB-1	10/17/2007	8'-10'	0.2 U	—	0.005 U	—	0.4 U	0.02 U	—	—	—
	FB-3	10/17/2007	1'-3'	0.2 U	—	0.005 U	—	0.4 U	0.02 U	—	—	—
	FB-3	10/17/2007	3'-5'	0.2 U	—	0.005 U	—	0.4 U	0.02 U	—	—	—
	MW-41	07/19/2008	5'	5.1 U	—	0.26 U	**8.2**	10 U	0.51 U	—	—	**19**
	MW-41	07/19/2008	10'	5.3 U	—	0.26 U	**95**	11 U	0.53 U	—	—	**22**
	MW-41	07/19/2008	20'	6 U	—	0.3 U	**5.3**	12 U	0.6 U	—	—	**13**
	MW-41	07/19/2008	30'	6.5 U	—	0.32 U	**5.9**	13 U	0.65 U	—	—	**17**
Area 6												
*	5-1	03/01/1990	0'	**57.7**	—	**0.05**	—	0.02 U	0.2 U	—	—	—
*	16-1	03/01/1990	0'	**69.4**	—	0.04 U	—	0.02 U	**1.1**	—	—	—
*	16-2	03/01/1990	0'	**67.9**	—	0.04 U	—	**0.09**	**0.87**	—	—	—
*	DM-B-15	02/28/1990	10'	**29.4**	—	0.04 U	—	**0.02**	0.2 U	—	—	—
*	DM-B-16	02/28/1990	11.5'	1 U	—	0.04 U	—	0.02 U	0.2 U	—	—	—
	MW-45	02/05/2009	11'	6.3 U	—	0.32 U	**9.5**	13 U	0.63 U	—	—	**25**
	MW-45	02/05/2009	17'	6.2 U	—	0.31 U	**6.2**	12 U	0.62 U	—	—	**15**
	MW-45	02/05/2009	29'	6 U	—	0.3 U	**7.4**	12 U	0.6 U	—	—	**17**
	MW-45	02/05/2009	40'	6.3 U	—	0.32 U	**5.9**	13 U	0.63 U	—	—	**15**
*	SB-13	02/06/2009	4'	5.7 U	—	0.28 U	**6.7**	11 U	0.57 U	—	—	**17**
*	SB-13	02/06/2009	8'	**64**	—	0.3 U	**64**	12 U	0.6 U	—	—	**27**
*	SB-13	02/06/2009	12'	6 U	—	0.3 U	**12**	12 U	0.6 U	—	—	**25**
*	SB-13	02/06/2009	16'	6.4 U	—	0.32 U	**7.1**	13 U	0.64 U	—	—	**16**
*	SB-14	02/06/2009	4'	6 U	—	0.3 U	**7.3**	12 U	0.6 U	—	—	**21**

Table B-16B: Metals in Soil

	Sample Location	Sample Date	Sample Depth	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
				(milligrams per kilogram)								
*	SB-14	02/06/2009	8'	5.5 U	—	0.27 U	**7.2**	11 U	0.55 U	—	—	**18**
*	SB-14	02/06/2009	12'	**52**	—	0.28 U	**270**	11 U	0.56 U	—	—	**38**
*	SB-14	02/06/2009	16'	7 U	—	0.35 U	**40**	14 U	0.7 U	—	—	**33**
*	SB-15	02/06/2009	4'	5.8 U	—	0.29 U	**7.1**	12 U	0.58 U	—	—	**19**
*	SB-15	02/06/2009	8'	5.4 U	—	0.27 U	**6.3**	11 U	0.54 U	—	—	**15**
*	SB-15	02/06/2009	12'	**81**	—	0.3 U	**15**	12 U	0.6 U	—	—	**43**
*	SB-15	02/06/2009	16'	7.2 U	—	0.36 U	**14**	14 U	0.72 U	—	—	**39**
*	SB-16	02/06/2009	4'	6.1 U	—	0.3 U	**33**	12 U	0.61 U	—	—	**56**
*	SB-16	02/06/2009	8'	6 U	—	0.3 U	**7**	12 U	0.6 U	—	—	**18**
*	SB-16	02/06/2009	12'	**150**	—	0.3 U	**310**	12 U	0.6 U	—	—	**140**
*	SB-16	02/06/2009	16'	6.8 U	—	0.34 U	**8.9**	14 U	0.68 U	—	—	**21**
*	SB-17	02/06/2009	2'	5.9 U	—	0.29 U	**8**	12 U	0.59 U	—	—	**18**
*	SB-17	02/06/2009	4'	5.9 U	—	0.29 U	**9.7**	12 U	0.59 U	—	—	**27**
*	SB-17	02/06/2009	6'	6 U	—	0.3 U	**8.3**	12 U	0.6 U	—	—	**21**
*	SB-18	02/05/2009	2'	6 U	—	0.3 U	**8.8**	12 U	0.6 U	—	—	**26**
*	SB-18	02/05/2009	4'	6.6 U	—	0.33 U	**8.4**	13 U	0.66 U	—	—	**20**
*	SB-18	02/05/2009	6'	**7.3**	—	0.36 U	**14**	14 U	0.72 U	—	—	**41**
*	SB-19	02/05/2009	2'	**46**	—	0.28 U	**31**	11 U	0.57 U	—	—	**160**
*	SB-19	02/05/2009	4'	**33**	—	0.29 U	**15**	12 U	0.59 U	—	—	**110**
*	SB-19	02/05/2009	6'	6.3 U	—	0.32 U	**11**	13 U	0.63 U	—	—	**30**
	Area 7											
*	9-1	03/01/1990	0'	**25.5**	—	0.04 U	—	**0.2**	0.2 U	—	—	—
	9-2	03/01/1990	0'	**25.9**	—	0.04 U	—	**0.1**	0.2 U	—	—	—
	9-3	03/01/1990	0'	**32.4**	—	0.04 U	—	**0.2**	**1.6**	—	—	—
	9-4	03/01/1990	0'	**282**	—	**0.05**	—	**0.05**	**1.1**	—	—	—
	17-1	03/01/1990	0'	**241**	—	**0.3**	—	**0.1**	**3.62**	—	—	—
	17-2	03/01/1990	0'	**127**	—	0.04 U	—	0.02 U	0.2 U	—	—	—
	17-3	03/01/1990	0'	**134**	—	**0.1**	—	**0.1**	**0.7**	—	—	—
	17-4	03/01/1990	0'	**208**	—	**0.09**	—	**2.6**	**0.93**	—	—	—
	MW-38	02/09/2009	5'	5.9 U	—	0.29 U	**10**	12 U	0.59 U	—	—	**26**
	MW-38	02/09/2009	9.5'	**220**	—	0.29 U	**390**	12 U	0.58 U	—	—	**120**
	MW-38	02/09/2009	15.5'	6.7 U	—	0.33 U	**8.5**	13 U	0.67 U	—	—	**17**
*	MW-39	02/11/2001	6.3'	—	—	—	**360**	12 U	—	—	—	—
*	MW-39	02/11/2009	6.3'	**290**	—	0.29 U	—	—	**0.9**	—	—	**260**
*	MW-39	02/11/2001	10'	—	—	—	**60**	14 U	—	—	—	—
*	MW-39	02/11/2009	10'	**200**	—	0.34 U	—	—	**0.82**	—	—	**230**
*	MW-44	02/05/2009	5'	5.5 U	—	0.27 U	**6.7**	11 U	0.55 U	—	—	**18**
*	MW-44	02/05/2009	9'	**9.2**	—	0.28 U	**8.5**	11 U	0.56 U	—	—	**25**
*	MW-44	02/05/2009	15'	**18**	—	0.31 U	**7.8**	13 U	0.63 U	—	—	**25**
*	MW-44	02/05/2009	28'	6.4 U	—	0.32 U	**9.4**	13 U	0.64 U	—	—	**26**
*	MW-44	02/05/2009	45'	6.3 U	—	0.31 U	**5.7**	13 U	0.63 U	—	—	**13**
*	MW-44	02/05/2009	60'	6.4 U	—	0.32 U	**6.8**	13 U	0.64 U	—	—	**14**
*	SB6	08/27/2004	0'-2'	**96**	—	**0.0226**	**433**	—	**0.65 J**	—	—	**267**
*	SB6	08/27/2004	2'-4'	**112**	—	**0.0055 J**	**5560**	—	**0.627 J**	—	—	**87**
*	SB6	08/27/2004	4'-6'	**132**	—	0.0183 U	**2340**	—	**0.747**	—	—	**110**
*	SB6	08/27/2004	6'-8'	**92.9**	—	0.0159 U	**1430**	—	**0.315**	—	—	**100**
*	SB7	08/27/2004	0'-2'	**110**	—	**0.0192 J**	**1,060**	—	**0.553 J**	—	—	**170**
*	SB7	08/27/2004	2'-4'	**543**	—	**0.0673**	—	—	**1 J**	—	—	**507**
*	SB7	08/31/2004	2'-4'	—	—	—	**158**	—	—	—	—	—
*	SB7	08/27/2004	4'-6'	**1,460**	—	**0.118**	**521**	—	**1.61**	—	—	**1,380**
*	SB7	08/27/2004	6'-8'	**657**	—	**0.0573**	**374**	—	**1.39**	—	—	**414**

Table B-16B: Metals in Soil

	Sample Location	Sample Date	Sample Depth	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
				(milligrams per kilogram)								
Area 8												
*	5-1	03/01/1990	0'	**57.7**	—	**0.05**	—	0.02 U	0.2 U	—	—	—
*	9-1	03/01/1990	0'	**25.5**	—	0.04 U	—	**0.2**	0.2 U	—	—	—
*	16-1	03/01/1990	0'	**69.4**	—	0.04 U	—	0.02 U	**1.1**	—	—	—
*	16-2	03/01/1990	0'	**67.9**	—	0.04 U	—	**0.09**	**0.87**	—	—	—
*	DM-B-15	02/28/1990	10'	**29.4**	—	0.04 U	—	**0.02**	0.2 U	—	—	—
*	DM-B-16	02/28/1990	11.5'	1 U	—	0.04 U	—	0.02 U	0.2 U	—	—	—
	JF-SB3BA1-6	09/06/2013	2.5'e	**360**	—	0.1 U	—	—	1 U	—	—	**136**
	JF-SB3BA2-6	09/06/2013	2.5'	**1.63**	—	0.1 U	—	—	1 U	—	—	**17.4**
	JF-SB3BA2-6	09/06/2013	2.5'	**1.52**	—	0.1 U	—	—	1 U	—	—	**16.4**
	JF-SB3ESW-6	09/06/2013	1.5'	**29.1**	—	0.1 U	—	—	1 U	—	—	**100**
	JF-SB3NSW-6	09/06/2013	1'	**207**	—	0.1 U	—	—	1 U	—	—	**115**
	JF-SB4BA1-9	09/09/2013	6'	**2.54**	—	0.1 U	—	—	1 U	—	—	**16.2**
	JF-SB4BA2-9	09/09/2013	6'	**165**	—	0.1 U	—	—	1 U	—	—	**96.7**
	JF-SB4BA3-9	09/09/2013	6'	**7.74**	—	0.1 U	—	—	1 U	—	—	**22.1**
	JF-SB4ESW-9	09/09/2013	3'	**1.66**	—	0.1 U	—	—	1 U	—	—	**17.4**
	JF-SB4NSW-9	09/09/2013	4'	**355**	—	0.1 U	—	—	1 U	—	—	**67**
	JF-SB4SSW-9	09/09/2013	4'	**194**	—	0.1 U	—	—	1 U	—	—	**109**
*	MW-39	02/11/2001	6.3'	—	—	—	**360**	12 U	—	—	—	—
*	MW-39	02/11/2009	6.3'	**290**	—	0.29 U	—	—	**0.9**	—	—	**260**
*	MW-39	02/11/2001	10'	—	—	—	**60**	14 U	—	—	—	—
*	MW-39	02/11/2009	10'	**200**	—	0.34 U	—	—	**0.82**	—	—	**230**
*	MW-44	02/05/2009	5'	5.5 U	—	0.27 U	**6.7**	11 U	0.55 U	—	—	**18**
*	MW-44	02/05/2009	9'	**9.2**	—	0.28 U	**8.5**	11 U	0.56 U	—	—	**25**
*	MW-44	02/05/2009	15'	**18**	—	0.31 U	**7.8**	13 U	0.63 U	—	—	**25**
*	MW-44	02/05/2009	28'	6.4 U	—	0.32 U	**9.4**	13 U	0.64 U	—	—	**26**
*	MW-44	02/05/2009	45'	6.3 U	—	0.31 U	**5.7**	13 U	0.63 U	—	—	**13**
*	MW-44	02/05/2009	60'	6.4 U	—	0.32 U	**6.8**	13 U	0.64 U	—	—	**14**
	PEB-4	08/25/2014	0'-1'	**806 J**	—	**0.138 J**	—	—	**0.192 J**	—	—	**210**
	PEB-5	08/25/2014	0'-1'	**68.1 J**	—	**0.0091 J**	—	—	**0.068 J**	—	—	**56**
	PEB-6	08/25/2014	0'-1'	**6600 J**	—	**0.0222 J**	—	—	**0.221 J**	—	—	**197**
*	SB-13	02/06/2009	4'	5.7 U	—	0.28 U	**6.7**	11 U	0.57 U	—	—	**17**
*	SB-13	02/06/2009	8'	**64**	—	0.3 U	**64**	12 U	0.6 U	—	—	**27**
*	SB-13	02/06/2009	12'	6 U	—	0.3 U	**12**	12 U	0.6 U	—	—	**25**
*	SB-13	02/06/2009	16'	6.4 U	—	0.32 U	**7.1**	13 U	0.64 U	—	—	**16**
*	SB-14	02/06/2009	4'	6 U	—	0.3 U	**7.3**	12 U	0.6 U	—	—	**21**
*	SB-14	02/06/2009	8'	5.5 U	—	0.27 U	**7.2**	11 U	0.55 U	—	—	**18**
*	SB-14	02/06/2009	12'	**52**	—	0.28 U	**270**	11 U	0.56 U	—	—	**38**
*	SB-14	02/06/2009	16'	7 U	—	0.35 U	**40**	14 U	0.7 U	—	—	**33**
*	SB-15	02/06/2009	4'	5.8 U	—	0.29 U	**7.1**	12 U	0.58 U	—	—	**19**
*	SB-15	02/06/2009	8'	5.4 U	—	0.27 U	**6.3**	11 U	0.54 U	—	—	**15**
*	SB-15	02/06/2009	12'	**81**	—	0.3 U	**15**	12 U	0.6 U	—	—	**43**
*	SB-15	02/06/2009	16'	7.2 U	—	0.36 U	**14**	14 U	0.72 U	—	—	**39**
*	SB-16	02/06/2009	4'	6.1 U	—	0.3 U	**33**	12 U	0.61 U	—	—	**56**
*	SB-16	02/06/2009	8'	6 U	—	0.3 U	**7**	12 U	0.6 U	—	—	**18**
*	SB-16	02/06/2009	12'	**150**	—	0.3 U	**310**	12 U	0.6 U	—	—	**140**
*	SB-16	02/06/2009	16'	6.8 U	—	0.34 U	**8.9**	14 U	0.68 U	—	—	**21**
*	SB-17	02/06/2009	2'	5.9 U	—	0.29 U	**8**	12 U	0.59 U	—	—	**18**
*	SB-17	02/06/2009	4'	5.9 U	—	0.29 U	**9.7**	12 U	0.59 U	—	—	**27**
*	SB-17	02/06/2009	6'	6 U	—	0.3 U	**8.3**	12 U	0.6 U	—	—	**21**
*	SB-18	02/05/2009	2'	6 U	—	0.3 U	**8.8**	12 U	0.6 U	—	—	**26**

Table B-16B: Metals in Soil

	Sample Location	Sample Date	Sample Depth	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
				(milligrams per kilogram)								
*	SB-18	02/05/2009	4'	6.6 U	—	0.33 U	**8.4**	13 U	0.66 U	—	—	**20**
*	SB-18	02/05/2009	6'	**7.3**	—	0.36 U	**14**	14 U	0.72 U	—	—	**41**
*	SB-19	02/05/2009	2'	**46**	—	0.28 U	**31**	11 U	0.57 U	—	—	**160**
*	SB-19	02/05/2009	4'	**33**	—	0.29 U	**15**	12 U	0.59 U	—	—	**110**
*	SB-19	02/05/2009	6'	6.3 U	—	0.32 U	**11**	13 U	0.63 U	—	—	**30**
	SB2	08/26/2004	0'-2'	**226**	—	**0.0542**	**125**	—	**0.421 J**	—	—	**370**
	SB2	08/26/2004	2'-4'	**278**	—	0.0205 U	**243**	—	**0.351 J**	—	—	**231**
	SB2	08/26/2004	4'-6'	**323**	—	**0.0074 J**	**173**	—	**0.381**	—	—	**215**
	SB2	08/26/2004	6'-8'	**274**	—	0.0192 U	**189**	—	**0.325**	—	—	**162**
	SB3	08/26/2004	0'-2'e	**1,530**	—	**0.0422**	**159**	—	**0.379 J**	—	—	**476**
	SB3	08/26/2004	2'-4'	**95.4**	—	0.0193 U	**3410**	—	**0.171 J**	—	—	**118**
	SB3	08/26/2004	4'-6'	**180**	—	**0.0058 J**	**584**	—	**0.28**	—	—	**197**
	SB3	08/26/2004	6'-8'	**179**	—	**0.009 J**	**207**	—	**0.274**	—	—	**191**
	SB4	08/26/2004	0'-2'e	**1130**	—	**0.694**	**290**	—	**0.381 J**	—	—	**319**
	SB4	08/26/2004	2'-4'e	**312**	—	**0.123**	**98.1**	—	**0.372 J**	—	—	**230**
	SB4	08/26/2004	4'-6'e	**732**	—	0.0239 U	**99.1**	—	**0.4**	—	—	**200**
	SB4	08/26/2004	6'-8'	**460**	—	**0.0352**	**62.2**	—	**0.332**	—	—	**136**
	SB5	08/26/2004	0'-2'	**109**	—	**0.0128 J**	**28.6**	—	**0.188 J**	—	—	**102**
	SB5	08/26/2004	2'-4'	**327**	—	**0.0208 J**	**73.1**	—	**0.331 J**	—	—	**289**
	SB5	08/26/2004	4'-6'	**192**	—	**0.0098 J**	**61**	—	**0.259 J**	—	—	**255**
	SB5	08/26/2004	6'-8'	**256**	—	0.0244 U	**95.2**	—	**0.35**	—	—	**253**
*	SB6	08/27/2004	0'-2'	**96**	—	**0.0226**	**433**	—	**0.65 J**	—	—	**267**
*	SB6	08/27/2004	2'-4'	**112**	—	**0.0055 J**	**5560**	—	**0.627 J**	—	—	**87**
*	SB6	08/27/2004	4'-6'	**132**	—	0.0183 U	**2340**	—	**0.747**	—	—	**110**
*	SB6	08/27/2004	6'-8'	**92.9**	—	0.0159 U	**1430**	—	**0.315**	—	—	**100**
*	SB7	08/27/2004	0'-2'	**110**	—	**0.0192 J**	**1,060**	—	**0.553 J**	—	—	**170**
*	SB7	08/27/2004	2'-4'	**543**	—	**0.0673**	—	—	**1 J**	—	—	**507**
*	SB7	08/31/2004	2'-4'	—	—	—	**158**	—	—	—	—	—
*	SB7	08/27/2004	4'-6'	**1,460**	—	**0.118**	**521**	—	**1.61**	—	—	**1,380**
*	SB7	08/27/2004	6'-8'	**657**	—	**0.0573**	**374**	—	**1.39**	—	—	**414**
	Area 9											
	JF-DGP2	03/29/2012	0'-10'	**102 J**	—	**0.04**	**29**	0.5 U	0.3 U	—	—	**344**
	JF-DGP2	03/29/2012	10'-11.8'	**105 J**	—	**0.47**	**35**	0.7 U	1 U	—	—	**772**
	JF-DGP2	03/29/2012	10'-20'	**26 J**	—	**0.13**	**14**	0.6 U	0.4 U	—	—	**259**
	JF-DGP2	03/29/2012	20'-30'	2 U	—	0.03 U	**7**	0.6 U	0.4 U	—	—	**75**
	JF-DGP4	03/28/2012	20'-22'	**441 J**	—	**0.33**	**31 J**	0.6 U	0.9 U	—	—	**1,860 J**
	JF-DGP5	03/29/2012	0'-10'	**520 J**	—	**0.06**	**100**	**1.1**	2 U	—	—	**35,400**
	JF-DGP5	03/29/2012	10'-20'	**7 J**	—	0.02 U	**31**	0.5 U	0.3 U	—	—	**372**
	JF-DGP5	03/29/2012	20'-30'	**23 J**	—	**0.13**	**17**	0.6 U	0.4 U	—	—	**539**
	PEB-1	08/25/2014	0'-1'	**153 J**	—	**0.04**	—	—	**0.2**	—	—	**3,880**
	PEB-2	08/25/2014	0'-1'	**26.9 J**	—	**0.03**	—	—	**0.116 J**	—	—	**184**
	PEB-3	08/25/2014	0'-1'	**107 J**	—	**0.005 J**	—	—	**0.234 J**	—	—	**281**
	SB-07201		1.5-2.5'	**27**	**237**	0.05 U	**89**	5 U	**0.3**	5 U	—	**107**
	SB-07201		5'-6.5'	**4**	**358**	0.05 U	**17**	**8**	0.4 U	6 U	—	**46.2**
	SB-07201		12.5'-14.25'	3 U	**136**	0.06 U	**14**	7 U	0.4 U	7 U	—	**31.5**
	SB-07202	09/08/1994	1.75-2.75'	**18**	**163**	0.05 U	**112**	5 U	**0.9**	5 U	**41.8**	**63.1**
	SB-07202	09/12/1994	5'-6.5'	**10**	**176**	0.05 U	**62 J**	5 U	0.3 U	5 U	**47.1**	**79.9 J**
	SB-07202	09/12/1994	7.5'-8.5'	**3**	**95.1**	0.05 U	**30**	5 U	0.3 U	5 U	**42.5**	**64.1**
	SB-07202	09/12/1994	12.5'-14'	**3**	**134**	0.06 U	**11**	6 U	0.4 U	6 U	**55.8**	**27.7**
*	SB-08916	09/13/1994	2'	**10**	—	0.05 U	**11**	5 U	0.3 U	5 U	**39.3**	**64.1**
*	SB-08916	09/13/1994	5'	**3**	—	0.06 U	**9**	6 U	0.3 U	6 U	**40.8**	**27.2**

Table B-16B: Metals in Soil

	Sample Location	Sample Date	Sample Depth	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			CAS	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6
				(milligrams per kilogram)								
*	SB-08916	09/13/1994	12.5'	3 U	—	0.06 U	**10**	6 U	0.4 U	6 U	**50.3**	**24.7**
*	SB-08918	09/13/1994	2'	**20**	—	0.05 U	**13**	5 U	0.3 U	5 U	**39.7**	**124**
*	SB-08918	09/13/1994	5'	**6**	—	0.05 U	**12**	6 U	0.3 U	6 U	**47.7**	**32.1**
*	SB-08918	09/13/1994	12.5'	**7**	—	0.06 U	**16**	6 U	0.4 U	6 U	**61.6**	**37.5**
*	SB-08921	09/13/1994	2'	**14**	—	0.05 U	**10**	5 U	0.3 U	5 U	**39.6**	**41.8**
*	SB-08921	09/13/1994	5'	**5**	—	0.05 U	**12**	**6**	0.3 U	5 U	**38.4**	**28.1**
*	SB-08921	09/13/1994	12.5'	3 U	—	0.06 U	**11**	6 U	0.4 U	6 U	**50.6**	**27.1**
*	SB-08923	09/13/1994	2'	**9**	—	0.06 U	**11**	6 U	0.3 U	6 U	**49.8**	**33.1**
*	SB-08923	09/13/1994	5'	**7**	—	0.05 U	**12**	6 U	0.3 U	6 U	**45.9**	**30.4**
*	SB-08923	09/13/1994	12.5'	**5**	—	0.06 U	**13**	6 U	0.4 U	6 U	**59.8**	**27.4**
	SB-09101	09/12/1994	2'	**16**	—	**0.16**	**35**	5 U	0.3 U	5 U	**42.8**	**54.9**
	SB-09101	09/12/1994	5'	**5**	—	0.05 U	**14**	5 U	0.3 U	5 U	**35.8**	**31.5**
	SB-09101	09/12/1994	12.5'	**18**	—	**0.08**	**19**	7 U	0.4 U	7 U	**54.9**	**72.3**
	SB-09105	09/12/1994	2'	**6**	—	0.05 U	**10**	5 U	0.3 U	5 U	**37.8**	**31.7**
	SB-09105	09/12/1994	5'	**7**	—	**0.09**	**15**	7 U	0.4 U	7 U	**55.9**	**36.9**
	SB-09105	09/12/1994	12.5'	**5**	—	0.06 U	**13**	6 U	0.4 U	6 U	**56.9**	**28.8**
	SB-09106	09/12/1994	2'	**117**	—	0.05 U	**501**	5 U	0.3 U	5 U	**52.7**	**169**
	SB-09106	09/12/1994	5'	**7**	—	0.05 U	**15**	7 U	0.4 U	7 U	**54.8**	**36.5**
	SB-09106	09/12/1994	12.5'	**3**	—	0.05 U	**9**	6 U	0.4 U	6 U	**51.4**	**25.8**
	SB1	08/26/2004	0'-2'	**111**	—	**0.065**	**1130**	—	**0.281 J**	—	—	**1320**
	SB1	08/26/2004	2'-4'	**20.8**	—	**0.0501**	**62.5**	—	**0.136 J**	—	—	**129**
	T2B1	01/13/2011	3'-5'	**8**	—	—	**18**	—	—	—	—	**42**
	T2B1	01/13/2011	8'-10'	**6**	—	—	**13**	—	—	—	—	**36**
	T2B1	01/13/2011	13'-15'	3 U	—	—	**18**	—	—	—	—	**35**
	T2B2	01/13/2011	3'-5'	**36**	—	—	**10**	—	—	—	—	**67**
	T2B2	01/13/2011	8'-10'	**46**	—	—	**10**	—	—	—	—	**79**
	T2B2	01/13/2011	13'-15'	**5**	—	—	**13**	—	—	—	—	**695**
	T2B3	01/13/2011	2'-4'	**22**	—	—	**18**	—	—	—	—	**119**
	T2B3	01/13/2011	8'-10'	**31**	—	—	**11**	—	—	—	—	**59**
	T2B3	01/13/2011	13'-15'	**30**	—	—	**11**	—	—	—	—	**60**
	T2B4	01/13/2011	3'-5'	**87**	—	—	**24**	—	—	—	—	**225**
	T2B4	12/06/2012	15'-20'	**0.4**	—	0.0001 U	—	0.2 U	0.02 U	—	—	—
	T2B4	01/13/2011	18'-20'	**886**	—	—	**202**	—	—	—	—	**5,630**
	T2B4	01/13/2011	23'-25'	**300**	—	—	**34**	—	—	—	—	**1,520**
	T2B4	12/06/2012	23'-24.5'	0.1 U	—	0.0001 U	—	0.2 U	0.02 U	—	—	—
	T3B1	01/13/2011	3'-5'	2 U	—	—	**9**	—	—	—	—	**26**
	T3B1	01/13/2011	8'-10'	**2**	—	—	**11**	—	—	—	—	**34**
	T3B1	01/13/2011	13'-15'	**3**	—	—	**16**	—	—	—	—	**37**
	T3B2	01/13/2011	3'-5'	**7**	—	—	**16**	—	—	—	—	**42**
	T3B2	01/13/2011	8'-10'	**3**	—	—	**13**	—	—	—	—	**31**
	T3B2	01/13/2011	13'-15'	**3**	—	—	**14**	—	—	—	—	**37**
	T3B2	01/13/2011	13'-15'	**3**	—	—	**14**	—	—	—	—	**39**

Table B-16B: Metals in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)								
		CAS	Lead 7439-92-1	Manganese 7439-96-5	Mercury 7439-97-6	Nickel 7440-02-0	Selenium 7782-49-2	Silver 7440-22-4	Thallium 7440-28-0	Vanadium 7440-62-2	Zinc 7440-66-6
T3B3	01/13/2011	3'-5'	**27**	—	—	**60**	—	—	—	—	**116**
T3B3	01/13/2011	8'-10'	**208**	—	—	**151**	—	—	—	—	**6,960**
T3B3	01/13/2011	13'-15'	**24**	—	—	**19**	—	—	—	—	**525**
T3B4	01/13/2011	3'-5'	**259**	—	—	**160**	—	—	—	—	**4,720**
T3B4	01/13/2011	13'-15'	**7**	—	—	**29**	—	—	—	—	**142**
T3B4	01/13/2011	23'-25'	2 U	—	—	**10**	—	—	—	—	**29**

NOTES:
Bold text indicates a detected result.
Samples corresponding to soil that has been removed are flagged with "e" after sample depth (except JFOS area).
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-17A: Metals in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)																	
				Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			CAS	7429-90-5		7440-36-0		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-47-3		18540-29-9	7440-48-4	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
Area 1																				
*	GP-08901	14'	09/14/1994	**21,400**	**40**	1 U	**5**	**25**	**24**	**82**	**12**	1 U	1 U	2 U	2 U	**30**	5 U	—	**6**	3 U
*	GP-08902	14'	09/14/1994	**16,500**	**30**	1 U	**5**	**50**	**50**	**67**	**13**	1 U	1 U	2 U	2 U	**19**	5 U	—	**5**	3 U
*	GP-08903	14'	09/14/1994	**27,300**	**40**	1 U	**5**	**11**	**9**	**93**	**1**	1 U	1 U	2 U	2 U	**16**	5 U	—	**4**	3 U
*	GP-08904	14'	09/14/1994	**14,700**	20 U	1 U	**8**	**3**	1 U	**49**	**1**	1 U	1 U	2 U	2 U	**13**	5 U	—	**7**	**3**
*	GP-08905	14'	09/13/1994	**17,300**	**40**	1 U	**8**	**3**	2 U	**72**	**4**	1 U	1 U	2 U	**2**	**20**	5 U	—	**5**	3 U
	GP-08906	15'	11/29/1994	—	—	1 U	1 U	**25**	**16**	—	—	1 U	1 U	2 U	2 U	42 U	5 U	—	—	—
	GP-08906	25'	11/29/1994	—	—	1 U	1 U	**4**	**4**	—	—	1 U	1 U	2 U	2 U	6 U	5 U	—	—	—
	GP-08906	45'	11/29/1994	—	—	1 U	1 U	**3**	**1**	—	—	1 U	1 U	2 U	2 U	15 U	5 U	—	—	—
	GP-08906	65'	11/29/1994	—	—	5 U	5 U	**6**	1 U	—	—	1 U	1 U	2 U	2 U	30 U	5 U	—	—	—
	GP-08907	15'	11/28/1994	—	—	1 U	1 U	**10**	**7**	—	—	**1**	1 U	2 U	2 U	**100**	5 U	—	—	—
	GP-08907	25'	11/28/1994	—	—	1 U	1 U	**8**	**4**	—	—	1 U	1 U	2 U	2 U	**60**	5 U	—	—	—
	GP-08907	45'	11/28/1994	—	—	1 U	1 U	**3**	1 U	—	—	1 U	1 U	2 U	2 U	**23**	5 U	—	—	—
	GP-08907	63'	11/29/1994	—	—	**1**	**3**	**18**	1 U	—	—	**2**	1 U	2 U	2 U	**301**	5 U	—	—	—
*	GP-08908	14'	03/17/1995	**23,600**	**20**	1 U	1 U	**4**	**1**	**114**	**30**	1 U	1 U	2 U	2 U	**18**	5 U	—	**14**	**6**
*	GP-08908	25'	03/17/1995	**19,200**	**170**	1 U	1 U	**9**	**6**	**90**	**9**	1 U	1 U	2 U	2 U	**14**	5 U	—	**8**	3 U
*	GP-08908	45'	03/17/1995	**6,800**	**40**	1 U	1 U	1 U	1 U	**32**	**15**	1 U	1 U	2 U	2 U	**5**	5 U	—	3 U	3 U
	GP-09106	14'	03/14/1995	**130**	**26,600**	**2**	1 U	**46**	**31**	**28**	**132**	1 U	1 U	2 U	2 U	5 U	**28**	—	**10**	**19**
	GP-09106	25'	03/14/1995	**47,200**	**50**	**1**	1 U	**4**	1 U	**187**	**15**	1 U	1 U	2 U	2 U	**48**	5 U	—	**13**	3 U
	GP-09106	45'	03/14/1995	**29,000**	**20**	**1**	1 U	**5**	1 U	**84**	**4**	1 U	1 U	2 U	2 U	**29**	5 U	—	**10**	3 U
	MW-9	5'-20'	01/31/2008	—	—	—	—	—	**13**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-9		08/17/2017	—	—	—	—	**15.2**	**0.906**	—	—	—	—	**1.37**	**0.604**	**0.472 J**	**5.34**	13 U	**3.65**	**2.32**
	MW-9		02/13/2018	—	—	—	—	**46**	**0.29**	—	—	—	—	**3.6**	**0.261**	**1.61**	0.13 U	—	**3.74**	**0.691**
*	MW-23	6'-15.75'	11/20/1992	—	—	—	—	50 U	—	2000 U	—	—	—	25 U	—	100 U	—	—	—	—
*	MW-23	6'-15.75'	01/31/2008	—	—	—	—	—	**8.6**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-23	6'-15.75'	02/26/2009	—	—	—	—	—	**5.2**	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—
*	MW-23		08/16/2017	—	—	—	—	**18.1**	**12.2**	—	—	—	—	**0.061 J**	**0.033 J**	**0.636**	0.65 U	13 U	**3.26**	**3.25**
*	MW-23		02/12/2018	—	—	—	—	**13.2**	**7.47**	—	—	—	—	**0.05 J**	0.03 U	**0.609**	1.3 U	—	**3.05**	**3.12**
*	MW-24	6'-19.75'	01/31/2008	—	—	—	—	—	**32**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-24	6'-19.75'	02/26/2009	—	—	—	—	—	**39**	—	25 U	—	—	—	2.6 U	—	**14**	—	—	—
*	MW-24		08/25/2017	—	—	—	—	**30.6**	**29.4**	—	—	—	—	0.03 U	0.03 U	**11.4**	**11.4**	**13 R**	**0.684**	**0.665**
*	MW-24		02/09/2018	—	—	—	—	**27.3**	**6.29**	—	—	—	—	—	—	**2.46**	**1.14**	13 U	**0.326 J**	**0.291**
	MW-25	6'-19.75'	01/31/2008	—	—	—	—	—	**9.9**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-25	6'-19.75'	02/26/2009	—	—	—	—	—	**21**	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—
	MW-25		08/23/2017	—	—	—	—	**6.73**	**0.487 J**	—	—	—	—	**0.039 J**	0.03 U	**1.43 J**	0.13 U	**13 R**	**0.582**	**0.046 J**
	MW-25		02/09/2018	—	—	—	—	**3.71**	**0.102 J**	—	—	—	—	0.06 U	0.03 U	**1.57**	0.13 U	**13 R**	**0.76**	**0.36**
	MW-30	5'-19.5'	01/31/2008	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-30		08/18/2017	—	—	—	—	**0.491**	**0.188 J**	—	—	—	—	0.03 U	0.03 U	**0.419 J**	0.26 U	13 U	**0.136 J**	**0.064 J**
	MW-30		02/09/2018	—	—	—	—	**0.392 J**	**0.197 J**	—	—	—	—	—	—	0.26 U	0.13 U	—	**0.094 J**	**0.065 J**
	MW-30		02/09/2018	—	—	—	—	**0.43**	**0.223**	—	—	—	—	—	—	**0.432 J**	0.26 U	—	**0.094 J**	**0.079 J**
	MW-48	5'-17'	02/26/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—
	MW-48	5'-17'	05/20/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-48	5'-17'	08/26/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-48	5'-17'	12/10/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
	MW-48		08/16/2017	—	—	—	—	**0.555**	**0.344**	—	—	—	—	0.03 U	0.03 U	**0.309 J**	0.65 U	13 U	**0.114 J**	0.145 U
	MW-48		02/09/2018	—	—	—	—	**0.694**	**0.33**	—	—	—	—	—	—	**0.292 J**	0.13 U	—	**0.136 J**	**0.075 J**
*	MW-49	5'-17'	02/26/2009	—	—	—	—	—	**5.5**	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—
*	MW-49		02/09/2018	—	—	—	—	**0.814**	**0.639**	—	—	—	—	**0.118 J**	**0.102**	**0.632 J**	**0.302 J**	13 U	**0.612**	**0.623**

Table B-17A: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)																	
			Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt		
		CAS	7429-90-5		7440-36-0		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-47-3		18540-29-9	7440-48-4		
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	
Area 2																				
MW-7		03/02/1990	—	—	—	—	**19**	—	**671**	—	—	—	**23**	—	**180**	—	—	—	—	
MW-7	10'-20'	02/01/2008	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-7	10'-20'	02/25/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—	
MW-7	10'-20'	05/20/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-7	10'-20'	08/25/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-7	10'-20'	12/10/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—	
MW-7		08/17/2017	—	—	—	—	**0.235**	**0.165 J**	—	—	—	—	**0.041 J**	0.03 U	**0.27 J**	0.13 U	13 U	**0.527**	**0.054 J**	
MW-7		02/07/2018	—	—	—	—	**0.242**	**0.158 J**	—	—	—	—	0.03 U	0.03 U	**0.43 J**	**0.347 J**	—	**0.149 J**	**0.058 J**	
MW-13	5'-20'	09/10/1992	—	—	—	—	**19**	—	—	—	—	—	0.1 U	—	**90**	—	—	—	—	
MW-14	5'-20'	02/01/2008	—	—	—	—	—	**3.8**	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-14	5'-20'	02/27/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—	
MW-14		08/25/2017	—	—	—	—	**7.44**	**1.14**	—	—	—	—	0.03 U	0.03 U	1.3 U	**0.254 J**	13 U	**1.46**	**1.34**	
MW-14		02/12/2018	—	—	—	—	**7.04**	**3.72**	—	—	—	—	—	—	**0.728**	1.3 U	—	**1.03**	**1**	
MW-15	5'-20'	01/31/2008	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-15		08/23/2017	—	—	—	—	**2.33**	**0.304**	—	—	—	—	**0.109**	0.03 U	**0.289 J**	0.13 U	13 U	**19**	**0.147 J**	
MW-15		02/12/2018	—	—	—	—	**1.56**	**0.277**	—	—	—	—	**0.101**	**0.031 J**	**0.204 J**	0.13 U	—	**6.28**	**0.515**	
MW-32	5'-20'	02/01/2008	—	—	—	—	—	**19**	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-32	5'-20'	02/27/2009	—	—	—	—	—	—	—	25 U	—	—	—	—	—	—	—	—	—	
MW-32	5'-19.5'	02/27/2009	—	—	—	—	—	**39**	—	—	—	—	—	2.6 U	—	10 U	—	—	—	
MW-32		08/24/2017	—	—	—	—	**35**	**9.01**	—	—	—	—	0.03 U	0.03 U	2.5 U	**0.264 J**	**13 R**	**0.402**	**0.329**	
MW-32		02/07/2018	—	—	—	—	**5.46**	**3.58**	—	—	—	—	0.03 U	0.03 U	**0.181 J**	0.13 U	**13 R**	**0.261**	**0.226**	
MW-34	5'-15'	02/01/2008	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-36		02/01/2008	—	—	—	—	—	**50**	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-36		02/27/2009	—	—	—	—	—	**92**	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—	
MW-36		08/21/2017	—	—	—	—	**46.6**	**14.3**	—	—	—	—	0.03 U	0.03 U	**1.28**	**0.692 J**	13 U	**0.184 J**	**0.151 J**	
MW-36		02/08/2018	—	—	—	—	**46**	**11.3**	—	—	—	—	0.03 U	0.03 U	**1.35**	**0.373 J**	—	**0.181 J**	**0.17 J**	
MW-37	10'-25'	02/25/2009	—	—	—	—	—	**4.8**	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—	
MW-37	10'-25'	05/20/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-37	10'-25'	08/27/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-37	10'-25'	12/11/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—	
MW-37		08/17/2017	—	—	—	—	**7.23**	**3.39**	—	—	—	—	**0.084 J**	**0.053 J**	**1.31**	**0.715**	13 U	**1.8**	**1.53**	
MW-37		02/09/2018	—	—	—	—	**0.374 J**	**0.186 J**	—	—	—	—	0.06 U	0.03 U	0.26 U	0.13 U	—	**0.076 J**	0.029 U	
Area 3																				
MW-3	4.5'-19.75'	01/31/2008	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-4	4.75'-20'	01/31/2008	—	—	—	—	—	**5.3**	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-4		02/07/2018	—	—	—	—	**2.08**	**1.44**	—	—	—	—	**0.053 J**	0.03 U	**0.37 J**	**0.158 J**	13 U	**0.779**	**0.671**	
MW-8		03/02/1990	—	—	—	—	—	—	**2.5**	—	—	—	1 U	—	4.2 U	—	—	—	—	
MW-8	5'-20'	01/31/2008	—	—	—	—	—	**14**	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
MW-8	5'-20'	02/26/2009	—	—	—	—	—	**32**	—	**18**	—	—	—	2.6 U	—	10 U	—	—	—	
MW-8		02/07/2018	—	—	—	—	**0.851**	**0.829**	—	—	—	—	0.03 U	0.03 U	0.13 U	0.13 U	13 U	**0.044 J**	**0.063 J**	
MW-8		02/07/2018	—	—	—	—	**0.64**	**0.665**	—	—	—	—	0.03 U	0.03 U	0.13 U	0.13 U	13 U	**0.033 J**	**0.032 J**	
Area 4																				
MW-10	5'-20'	02/01/2008	—	—	—	—	—	3 U	—	**29**	—	—	—	4 U	—	10 U	—	—	—	
MW-11	5'-20'	01/31/2008	—	—	—	—	—	—	—	25 U	—	—	—	—	—	—	—	—	—	
MW-11	5'-20'	02/25/2009	—	—	—	—	—	—	—	25 U	—	—	—	—	—	—	—	—	—	
MW-11		08/24/2017	—	—	—	—	**4.24**	**2.15**	—	—	—	—	**0.574**	**0.07 J**	0.933 U	**0.388 J**	13 U	**0.756**	**0.642**	
MW-11		02/13/2018	—	—	—	—	**6.19**	**5.8**	—	—	—	—	**0.049 J**	0.03 U	**0.888**	0.753 U	—	**0.538**	**0.492**	

Table B-17A: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)															
			Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
		CAS	7429-90-5		7440-36-0		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-47-3		18540-29-9	7440-48-4	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
Area 5																			
MW-40	10'-25'	02/27/2009	—	—	—	—	—	**9.1**	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—
MW-40	10'-25'	05/20/2009	—	—	—	—	—	**3.7**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
MW-40	10'-25'	08/26/2009	—	—	—	—	—	**6.2**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
MW-40	10'-25'	12/18/2009	—	—	—	—	—	**4.9**	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
MW-40		02/08/2018	—	—	—	—	**55.5**	**11**	—	—	—	—	0.03 U	0.03 U	**0.61 J**	**0.158 J**	13 U	**0.407**	**0.363**
MW-41	30'-40'	02/27/2009	—	—	—	—	—	**5.6**	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—
MW-41	30'-40'	05/20/2009	—	—	—	—	—	**4.5**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
MW-41	30'-40'	08/26/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
MW-41	30'-40'	12/18/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
MW-41		02/08/2018	—	—	—	—	**82.2**	**29.3**	—	—	—	—	0.03 U	0.03 U	**0.755 J**	0.13 U	**13 R**	**0.275 J**	**0.233**
Area 6																			
GP-06640	14'	03/15/1995	**2,320 J**	**20**	**1**	2 U	1 U	1 U	**31 J**	**23**	1 U	1 U	2 U	2 U	5 U	5 U	—	**12 J**	**10**
GP-06640	25'	03/15/1995	**51,100**	**30**	1 U	1 U	**9**	**2**	**196**	**14**	**1**	1 U	2 U	2 U	**53**	5 U	—	**20**	3 U
GP-06640	45'	03/15/1995	**31,700**	**90**	**2**	**2**	**9**	1 U	**84**	**6 J**	1 U	1 U	2 U	2 U	**55**	5 U	—	**11**	3 U
GP-09104	15'	11/23/1994	**31,900**	**170**	**1**	**2**	**21**	**7**	**1110**	**23**	**5**	1 U	**2**	2 U	**307**	**7**	—	**89**	3 U
GP-09104	25'	11/23/1994	**78,400**	**50**	1 U	**2**	**4**	1 U	**284**	**7**	1 U	1 U	2 U	2 U	**73**	5 U	—	**20**	3 U
GP-09104	45'	11/23/1994	**34,400**	**60**	1 U	1 U	**10**	**1**	**101**	**4**	1 U	1 U	2 U	2 U	**60**	5 U	—	**13**	3 U
GP-09105	15'	11/23/1994	**313,000**	**120**	**2**	**4**	**61**	**92**	**1100**	**17**	**5**	1 U	2 U	2 U	**300**	5 U	—	**90**	3 U
GP-09105	25'	11/23/1994	**28,500**	**20**	1 U	**4**	**2**	1 U	**141**	**13**	1 U	1 U	2 U	2 U	**34**	5 U	—	**7**	3 U
GP-09105	45'	11/23/1994	**21,400**	**40**	1 U	**3**	**3**	1 U	**74**	**7**	1 U	1 U	2 U	2 U	**51**	5 U	—	**7**	3 U
GP-09107	14'	03/14/1995	**54,500**	**130**	**2**	1 U	**86**	**76**	**213**	**23**	1 U	1 U	2 U	2 U	**45**	5 U	—	**14**	3 U
GP-09107	25'	03/14/1995	**69,900**	**120**	**1**	1 U	**2**	1 U	**274**	**8**	1 U	1 U	2 U	2 U	**69**	5 U	—	**19**	3 U
GP-09107	45'	03/14/1995	**23,600**	**50**	**2**	1 U	**4**	1 U	**76**	**2**	1 U	1 U	2 U	2 U	**66**	5 U	—	**9**	3 U
GP-09108	14'	03/14/1995	**44,500**	**350**	**1**	1 U	**85**	**72**	**180**	**20**	1 U	1 U	2 U	2 U	**47**	**6**	—	**11**	3 U
GP-09108	25'	03/14/1995	**16,900**	**30**	1 U	1 U	**3**	**2**	**75**	**12**	1 U	1 U	2 U	2 U	**21**	5 U	—	**6**	3 U
GP-09108	45'	03/14/1995	**6,930**	20 U	**1**	1 U	**4**	1 U	**24**	**3**	1 U	1 U	2 U	2 U	**8**	5 U	—	**4**	3 U
GP-09109	14'	03/15/1995	**22,400**	**410**	**1**	**3**	**13**	**11**	**81**	**10 J**	1 U	1 U	2 U	2 U	**38**	**15**	—	**6**	3 U
GP-09109	25'	03/15/1995	**47,500**	**130**	**1**	2 U	**12**	**8**	**177**	**10 J**	1 U	1 U	2 U	2 U	**40**	5 U	—	**15**	3 U
GP-09109	45'	03/15/1995	**27,000**	**70**	**1**	**1**	**4**	1 U	**77**	**2 J**	1 U	1 U	2 U	2 U	**30**	5 U	—	**9**	3 U
GP-09110	15'	09/19/1995	—	—	1 U	1 U	**14**	**14**	**32**	**17**	1 U	1 U	2 U	2 U	**19**	**17**	—	—	—
GP-09110	25'	09/19/1995	—	—	1 U	1 U	1 U	**1**	**39**	**7**	1 U	1 U	2 U	2 U	**6**	5 U	—	—	—
GP-09110	45'	09/19/1995	—	—	1 U	1 U	**1**	**1**	**16**	**9**	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—
GP-09111	15'	09/20/1995	—	—	1 U	1 U	**12**	**9**	**154**	13 U	1 U	1 U	2 U	2 U	45 U	**20**	—	—	—
GP-09111	25'	09/20/1995	—	—	1 U	1 U	**2**	**2**	**20**	9 U	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—
GP-09111	45'	09/20/1995	—	—	1 U	1 U	**1**	1 U	**14**	9 U	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—
GP-09112	15'	09/19/1995	—	—	1 U	1 U	**29**	**32**	**107**	**9**	1 U	1 U	2 U	2 U	**33**	5 U	—	—	—
GP-09112	25'	09/19/1995	—	—	1 U	1 U	1 U	**1**	**50**	**13**	1 U	1 U	2 U	2 U	**9**	5 U	—	—	—
GP-09112	45'	09/19/1995	—	—	1 U	1 U	**3**	**1**	**68**	**3**	1 U	1 U	2 U	2 U	**17**	5 U	—	—	—
* GP-09113	15'	09/19/1995	—	—	1 U	**1**	**4**	**2**	**67**	**7**	1 U	1 U	2 U	2 U	**25**	5 U	—	—	—
* GP-09113	25'	09/19/1995	—	—	1 U	1 U	**49**	**46**	**15**	**7**	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—
* GP-09113	45'	09/19/1995	—	—	1 U	1 U	1 U	**1**	**29**	**17**	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—
* GP-09114	15'	09/20/1995	—	—	1 U	1 U	**6**	**2**	**50**	5 U	1 U	1 U	2 U	2 U	14 U	**7**	—	—	—
* GP-09114	25'	09/20/1995	—	—	2 U	1 U	**11**	**4**	**127**	11 U	1 U	1 U	2 U	2 U	13 U	5 U	—	—	—
* GP-09114	45'	09/20/1995	—	—	1 U	1 U	**2**	**1**	**29 J**	2 U	1 U	1 U	2 U	2 U	5 U	**8**	—	—	—
* GP-09115	15'	09/19/1995	—	—	5 U	5 U	**8**	5 U	**144**	**133**	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—
* GP-09115	25'	09/19/1995	—	—	1 U	1 U	**10**	**7**	**33**	**2**	1 U	1 U	2 U	2 U	**5**	5 U	—	—	—
* GP-09115	45'	09/19/1995	—	—	1 U	1 U	**1**	1 U	**11**	**1**	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—

Table B-17A: Metals in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)																
				Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			CAS	7429-90-5		7440-36-0		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-47-3		18540-29-9	7440-48-4	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
*	MW-6		03/02/1990	—	—	—	—	**70**	—	**316**	—	—	—	**18**	—	**91**	—	—	—	—
*	MW-6	10'-20'	01/30/2008	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-6		08/21/2017	—	—	—	—	**39.4**	**10.8**	—	—	—	—	**0.049 J**	0.03 U	**1.76**	**0.209 J**	13 U	**0.355**	**0.092 J**
*	MW-6		02/13/2018	—	—	—	—	**11.1**	**4.58**	—	—	—	—	**0.031 J**	0.03 U	**1.25**	0.517 U	—	**0.446**	**0.226**
	MW-31	5'-20'	01/30/2008	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-31	5'-19.5'	02/26/2009	—	—	—	—	—	—	—	25 U	—	—	—	—	—	—	—	—	—
	MW-31	5'-20'	02/26/2009	—	—	—	—	—	**5.3**	—	—	—	—	—	2.6 U	—	10 U	—	—	—
	MW-31		08/16/2017	—	—	—	—	**1.95**	**1.28**	—	—	—	—	0.03 U	0.03 U	**2.08 J**	**1.02 J**	**13 R**	**0.249**	**0.2 J**
	MW-31		02/06/2018	—	—	—	—	**2.17**	**1.08**	—	—	—	—	—	—	**2.41**	**1.9 J**	**16 J**	**0.248**	**0.194 J**
	MW-45	30'-40'	02/26/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—
	MW-45	30'-40'	05/21/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-45	30'-40'	08/27/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-45	30'-40'	12/11/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
	MW-45		08/16/2017	—	—	—	—	**0.478**	**0.415**	—	—	—	—	0.03 U	0.03 U	**0.559**	0.65 U	13 U	**0.195 J**	**0.175 J**
	MW-45		02/06/2018	—	—	—	—	**0.466**	**0.365**	—	—	—	—	—	—	**0.616 J**	0.65 U	—	**0.187 J**	**0.17 J**
	MW-46	5'-20'	02/26/2009	—	—	—	—	—	**8.1**	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—
	MW-46	5'-20'	05/21/2009	—	—	—	—	—	**16**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-46	5'-20'	08/27/2009	—	—	—	—	—	**5.2**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-46	5'-20'	12/11/2009	—	—	—	—	—	**11**	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
	MW-46		02/06/2018	—	—	—	—	**20.7**	**5.91**	—	—	—	—	0.03 U	0.03 U	**1.57**	**0.49 J**	**16**	**0.297**	**0.248**
*	SB-13	12'-16'	02/06/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	SB-14	12'-16'	02/06/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	SB-15	12'-16'	02/06/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	SB-16	12'-16'	02/06/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
Area 7																				
	MW-38	10'-25'	02/24/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
	MW-38	10'-25'	05/20/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-38	10'-25'	12/10/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
	MW-38		08/16/2017	—	—	—	—	**0.523**	**0.449**	—	—	—	—	**0.074 J**	**0.059 J**	**0.177 J**	0.65 U	13 U	**0.336**	**0.22 J**
	MW-38		02/09/2018	—	—	—	—	**0.334 J**	**0.267**	—	—	—	—	0.06 U	0.03 U	0.26 U	0.13 U	—	**0.09 J**	**0.064 J**
*	MW-39	5'-20'	02/24/2009	—	—	—	—	—	4.5 U	—	**30**	—	—	—	2.5 U	—	**120**	—	—	—
*	MW-39	5'-20'	05/20/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	**56**	—	—	—
*	MW-39	5'-20'	08/26/2009	—	—	—	—	—	4 U	—	**210**	—	—	—	4 U	—	**64**	—	—	—
*	MW-39	5'-20'	12/10/2009	—	—	—	—	—	3.5 U	—	25 U	—	—	—	2.5 U	—	**18**	—	—	—
*	MW-39		08/28/2017	—	—	—	—	**1.83 J**	**1.67 J**	—	—	—	—	0.3 U	0.3 U	**22.3**	**27.4**	**24**	0.29 U	0.29 U
*	MW-39		02/13/2018	—	—	—	—	**12.9**	**1.33**	—	—	—	—	—	—	**93**	**9.44**	13 U	**2.56**	0.029 U
*	MW-42	5'-20'	02/25/2009	—	—	—	—	—	**34**	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-42	5'-20'	05/20/2009	—	—	—	—	—	**8.1**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-42	5'-20'	08/26/2009	—	—	—	—	—	**3.8**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-42	5'-20'	12/10/2009	—	—	—	—	—	**4.3**	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-42		08/23/2017	—	—	—	—	**3.45**	**2.29**	—	—	—	—	0.03 U	0.03 U	**2.3**	**0.238 J**	13 U	**0.101 J**	**0.076 J**
*	MW-42		02/14/2018	—	—	—	—	**4.36**	**4.47**	—	—	—	—	—	—	**31.7**	**29.7**	—	**0.063 J**	**0.032 J**
*	MW-43	30'-40'	02/25/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-43	30'-40'	05/20/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-43	30'-40'	08/26/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-43	30'-40'	12/11/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-43		08/24/2017	—	—	—	—	**0.141 J**	**0.075 J**	—	—	—	—	0.03 U	0.03 U	1 U	**0.346 J**	13 U	**0.197 J**	**0.132 J**
*	MW-43		02/14/2018	—	—	—	—	**0.143 J**	**0.104 J**	—	—	—	—	—	—	0.514 U	0.533 U	—	**0.173 J**	**0.108 J**
*	MW-44	50'-60'	02/25/2009	—	—	—	—	—	4.5 U	—	**130**	—	—	—	2.5 U	—	10 U	—	—	—

Table B-17A: Metals in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)																
				Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			CAS	7429-90-5		7440-36-0		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-47-3		18540-29-9	7440-48-4	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
*	MW-44	50'-60'	05/20/2009	—	—	—	—	—	4.6 U	—	**92**	—	—	—	4 U	—	**38**	—	—	—
*	MW-44	50'-60'	08/26/2009	—	—	—	—	—	9.5 U	—	**140**	—	—	—	4 U	—	10 U	—	—	—
*	MW-44	50'-60'	12/18/2009	—	—	—	—	—	8.7 U	—	**120**	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-44		08/23/2017	—	—	—	—	**1.21**	**1.06**	—	—	—	—	**0.032 J**	0.03 U	**2.11**	**1.02**	13 U	**0.453**	**0.371**
*	MW-44		02/14/2018	—	—	—	—	**1.14 J**	**0.98 J**	—	—	—	—	0.15 U	0.15 U	**5.43 J**	**2.23**	—	**0.235 J**	**0.375 J**
Area 8																				
*	GP-09113	15'	09/19/1995	—	—	1 U	**1**	**4**	**2**	**67**	**7**	1 U	1 U	2 U	2 U	**25**	5 U	—	—	—
*	GP-09113	25'	09/19/1995	—	—	1 U	1 U	**49**	**46**	**15**	**7**	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—
*	GP-09113	45'	09/19/1995	—	—	1 U	1 U	1 U	**1**	**29**	**17**	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—
*	GP-09114	15'	09/20/1995	—	—	1 U	1 U	**6**	**2**	**50**	5 U	1 U	1 U	2 U	2 U	14 U	**7**	—	—	—
*	GP-09114	25'	09/20/1995	—	—	2 U	1 U	**11**	**4**	**127**	11 U	1 U	1 U	2 U	2 U	13 U	5 U	—	—	—
*	GP-09114	45'	09/20/1995	—	—	1 U	1 U	**2**	**1**	**29 J**	2 U	1 U	1 U	2 U	2 U	5 U	**8**	—	—	—
*	GP-09115	15'	09/19/1995	—	—	5 U	5 U	**8**	5 U	**144**	**133**	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—
*	GP-09115	25'	09/19/1995	—	—	1 U	1 U	**10**	**7**	**33**	**2**	1 U	1 U	2 U	2 U	**5**	5 U	—	—	—
*	GP-09115	45'	09/19/1995	—	—	1 U	1 U	**1**	1 U	**11**	**1**	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—
*	MW-6		03/02/1990	—	—	—	—	**70**	—	**316**	—	—	—	**18**	—	**91**	—	—	—	—
*	MW-6	10'-20'	01/30/2008	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-6		08/21/2017	—	—	—	—	**39.4**	**10.8**	—	—	—	—	**0.049 J**	0.03 U	**1.76**	**0.209 J**	13 U	**0.355**	**0.092 J**
*	MW-6		02/13/2018	—	—	—	—	**11.1**	**4.58**	—	—	—	—	**0.031 J**	0.03 U	**1.25**	0.517 U	—	**0.446**	**0.226**
*	MW-39	5'-20'	02/24/2009	—	—	—	—	—	4.5 U	—	**30**	—	—	—	2.5 U	—	**120**	—	—	—
*	MW-39	5'-20'	05/20/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	**56**	—	—	—
*	MW-39	5'-20'	08/26/2009	—	—	—	—	—	4 U	—	**210**	—	—	—	4 U	—	**64**	—	—	—
*	MW-39	5'-20'	12/10/2009	—	—	—	—	—	3.5 U	—	25 U	—	—	—	2.5 U	—	**18**	—	—	—
*	MW-39		08/28/2017	—	—	—	—	**1.83 J**	**1.67 J**	—	—	—	—	0.3 U	0.3 U	**22.3**	**27.4**	**24**	0.29 U	0.29 U
*	MW-39		02/13/2018	—	—	—	—	**12.9**	**1.33**	—	—	—	—	—	—	**93**	**9.44**	13 U	**2.56**	0.029 U
*	MW-42	5'-20'	02/25/2009	—	—	—	—	—	**34**	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-42	5'-20'	05/20/2009	—	—	—	—	—	**8.1**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-42	5'-20'	08/26/2009	—	—	—	—	—	**3.8**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-42	5'-20'	12/10/2009	—	—	—	—	—	**4.3**	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-42		08/23/2017	—	—	—	—	**3.45**	**2.29**	—	—	—	—	0.03 U	0.03 U	**2.3**	**0.238 J**	13 U	**0.101 J**	**0.076 J**
*	MW-42		02/14/2018	—	—	—	—	**4.36**	**4.47**	—	—	—	—	—	—	**31.7**	**29.7**	—	**0.063 J**	**0.032 J**
*	MW-43	30'-40'	02/25/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-43	30'-40'	05/20/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-43	30'-40'	08/26/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-43	30'-40'	12/11/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-43		08/24/2017	—	—	—	—	**0.141 J**	**0.075 J**	—	—	—	—	0.03 U	0.03 U	1 U	**0.346 J**	13 U	**0.197 J**	**0.132 J**
*	MW-43		02/14/2018	—	—	—	—	**0.143 J**	**0.104 J**	—	—	—	—	—	—	0.514 U	0.533 U	—	**0.173 J**	**0.108 J**
*	MW-44	50'-60'	02/25/2009	—	—	—	—	—	4.5 U	—	**130**	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-44	50'-60'	05/20/2009	—	—	—	—	—	4.6 U	—	**92**	—	—	—	4 U	—	**38**	—	—	—
*	MW-44	50'-60'	08/26/2009	—	—	—	—	—	9.5 U	—	**140**	—	—	—	4 U	—	10 U	—	—	—
*	MW-44	50'-60'	12/18/2009	—	—	—	—	—	8.7 U	—	**120**	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-44		08/23/2017	—	—	—	—	**1.21**	**1.06**	—	—	—	—	**0.032 J**	0.03 U	**2.11**	**1.02**	13 U	**0.453**	**0.371**
*	MW-44		02/14/2018	—	—	—	—	**1.14 J**	**0.98 J**	—	—	—	—	0.15 U	0.15 U	**5.43 J**	**2.23**	—	**0.235 J**	**0.375 J**
	MW-47	5'-20'	02/25/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
	MW-47	5'-20'	05/21/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-47	5'-20'	08/27/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-47	5'-20'	12/11/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
	PL2-JF03A	8'-22.75'	09/28/1995	**50 J**	—	**4**	—	**2**	—	**23**	—	1 U	—	2 U	—	5 U	—	—	3 U	—
	PL2-JF03A	8'-22.75'	11/17/1995	—	—	1 U	—	**2**	—	**18**	—	1 U	—	2 U	—	5 U	—	—	—	—

Table B-17A: Metals in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)																
				Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			CAS	7429-90-5		7440-36-0		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-47-3		18540-29-9	7440-48-4	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
	PL2-JF03A	8'-22.75'	03/01/1996	—	—	1 U	—	1 U	—	**7**	—	1 U	—	2 U	—	5 U	—	—	—	—
	PL2-JF03A	8'-22.75'	05/23/1996	—	—	1 U	—	**1**	—	**7**	—	1 U	—	2 U	—	5 U	—	—	—	—
	PL2-JF03A	8'-22.75'	08/26/1996	—	—	1 U	—	**1**	—	**15**	—	1 U	—	2 U	—	5 U	—	—	—	—
	PL2-JF03A	8'-22.75'	11/21/1996	—	—	1 U	—	1 U	—	**13**	—	1 U	—	2 U	—	5 U	—	—	—	—
	PL2-JF03A	8'-22.75'	04/26/2001	—	—	2 U	2 U	**0.4**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF03A	8'-22.75'	07/25/2001	—	—	2 U	2 U	**0.6**	**0.6**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF03A	8'-22.75'	10/24/2001	—	—	2 U	2 U	**0.7**	**0.6**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF03A	8'-22.75'	01/21/2002	—	—	2 U	2 U	**0.8**	**0.8**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF03A	8'-22.75'	06/16/2003	—	—	50 U	50 U	**1.1**	**1**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF03A	8'-22.75'	12/08/2003	—	—	2 U	2 U	**0.4**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF03A	8'-22.75'	11/01/2004	—	—	2 U	2 U	**0.5**	**0.5**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF03A	6'-23'	05/02/2005	—	—	2 U	2 U	**0.7**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF03A	8'-22.75'	10/31/2005	2 U	2 U	**0.6**	**0.5**	—	—	0.2 U	0.2 U	—	2 U	5 U	5 U	—	—	—	**1**	**0.7**
*	SB-13	12'-16'	02/06/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	SB-14	12'-16'	02/06/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	SB-15	12'-16'	02/06/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	SB-16	12'-16'	02/06/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	Seep-20		07/01/2004	—	—	—	—	**1.58**	**1.35**	—	—	—	—	**0.114**	**0.111**	11.4 U	8.8 U	—	—	—
	Area 9																			
	GP-06637	14'	03/15/1995	**52,700**	**150**	1 U	1 U	**3**	**2**	**167**	**6 J**	**1**	1 U	2 U	2 U	**45**	5 U	—	**9**	3 U
	GP-06637	25'	03/15/1995	**46,500**	**50**	**1**	**1**	**2**	1 U	**181**	**13**	1 U	1 U	2 U	2 U	**45**	5 U	—	**16**	3 U
	GP-06637	45'	03/15/1995	**17,600**	**40**	**3**	**2**	**4**	1 U	**55**	**10 J**	1 U	1 U	2 U	2 U	**19**	5 U	—	**6**	3 U
	GP-06638	14'	03/16/1995	**72,800**	**180**	1 U	**2**	**10**	**7**	**229**	**5**	**1**	1 U	2 U	2 U	**70**	5 U	—	**14**	3 U
	GP-06638	25'	03/16/1995	**70,300**	**200**	**1**	**2**	**4**	**1**	**292**	**12**	1 U	1 U	2 U	2 U	**70**	5 U	—	**25**	3 U
	GP-06638	45'	03/16/1995	**51,300**	**60**	**2**	**2**	**6**	1 U	**151**	**10**	1 U	1 U	2 U	2 U	**82**	5 U	—	**17**	3 U
	GP-06639	14'	03/16/1995	**39,100 J**	**310 J**	**2**	**2**	**13**	**7**	**166 J**	**16**	1 U	1 U	2 U	2 U	**47 J**	**9**	—	**10**	3 U
	GP-06639	25'	03/16/1995	**81,100**	**60**	1 U	**1**	**2**	1 U	**279**	**11**	1 U	1 U	2 U	2 U	**80**	5 U	—	**23**	3 U
	GP-06639	45'	03/16/1995	**11,700**	**50**	1 U	**1**	**3**	1 U	**41**	**6**	1 U	1 U	2 U	2 U	**13 J**	5 U	—	**5**	3 U
*	GP-08901	14'	09/14/1994	**21,400**	**40**	1 U	**5**	**25**	**24**	**82**	**12**	1 U	1 U	2 U	2 U	**30**	5 U	—	**6**	3 U
*	GP-08902	14'	09/14/1994	**16,500**	**30**	1 U	**5**	**50**	**50**	**67**	**13**	1 U	1 U	2 U	2 U	**19**	5 U	—	**5**	3 U
*	GP-08903	14'	09/14/1994	**27,300**	**40**	1 U	**5**	**11**	**9**	**93**	**1**	1 U	1 U	2 U	2 U	**16**	5 U	—	**4**	3 U
*	GP-08904	14'	09/14/1994	**14,700**	20 U	1 U	**8**	**3**	1 U	**49**	**1**	1 U	1 U	2 U	2 U	**13**	5 U	—	**7**	**3**
*	GP-08905	14'	09/13/1994	**17,300**	**40**	1 U	**8**	**3**	2 U	**72**	**4**	1 U	1 U	2 U	**2**	**20**	5 U	—	**5**	3 U
*	GP-08908	14'	03/17/1995	**23,600**	**20**	1 U	1 U	**4**	**1**	**114**	**30**	1 U	1 U	2 U	2 U	**18**	5 U	—	**14**	**6**
*	GP-08908	25'	03/17/1995	**19,200**	**170**	1 U	1 U	**9**	**6**	**90**	**9**	1 U	1 U	2 U	2 U	**14**	5 U	—	**8**	3 U
*	GP-08908	45'	03/17/1995	**6,800**	**40**	1 U	1 U	1 U	1 U	**32**	**15**	1 U	1 U	2 U	2 U	**5**	5 U	—	3 U	3 U
	GP-09101	15'	09/12/1994	**5,150**	**100**	1 U	6 U	**24**	**23**	**31**	**15**	1 U	1 U	2 U	2 U	**11**	**6**	—	**3**	3 U
	GP-09102	14'	09/08/1994	**1,590**	20 U	1 U	**3**	**30**	**34**	**16**	**6**	1 U	1 U	2 U	2 U	5 U	5 U	—	3 U	3 U
	GP-09103	14'	09/08/1994	**11,000**	20 U	1 U	**4**	**8**	**7**	**48**	**10**	1 U	1 U	2 U	2 U	**9**	5 U	—	3 U	3 U
	MW-5		03/02/1990	—	—	—	—	**3**	—	**407**	—	—	—	**6**	—	**48**	—	—	—	—
	MW-5	10'-20'	01/30/2008	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-5	10'-20'	02/24/2009	—	—	—	—	—	**14**	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
	MW-5	10'-20'	05/21/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-5	10'-20'	08/27/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—
	MW-5	10'-20'	12/11/2009	—	—	—	—	—	3 U	—	25 U	—	—	—	2.5 U	—	10 U	—	—	—
*	MW-23	6'-15.75'	11/20/1992	—	—	—	—	50 U	—	2000 U	—	—	—	25 U	—	100 U	—	—	—	—
*	MW-23	6'-15.75'	01/31/2008	—	—	—	—	—	**8.6**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-23	6'-15.75'	02/26/2009	—	—	—	—	—	**5.2**	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—
*	MW-23		08/16/2017	—	—	—	—	**18.1**	**12.2**	—	—	—	—	**0.061 J**	**0.033 J**	**0.636**	0.65 U	13 U	**3.26**	**3.25**

DRAFT FOR PUBLIC COMMENT

Table B-17A: Metals in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter)																
				Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			CAS	7429-90-5		7440-36-0		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-47-3		18540-29-9	7440-48-4	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
*	MW-23		02/12/2018	—	—	—	—	**13.2**	**7.47**	—	—	—	—	**0.05 J**	0.03 U	**0.609**	1.3 U	—	**3.05**	**3.12**
*	MW-24	6'-19.75'	01/31/2008	—	—	—	—	—	**32**	—	25 U	—	—	—	4 U	—	10 U	—	—	—
*	MW-24	6'-19.75'	02/26/2009	—	—	—	—	—	**39**	—	25 U	—	—	—	2.6 U	—	**14**	—	—	—
*	MW-24		08/25/2017	—	—	—	—	**30.6**	**29.4**	—	—	—	—	0.03 U	0.03 U	**11.4**	**11.4**	**13 R**	**0.684**	**0.665**
*	MW-24		02/09/2018	—	—	—	—	**27.3**	**6.29**	—	—	—	—	—	—	**2.46**	**1.14**	13 U	**0.326 J**	**0.291**
*	MW-49	5'-17'	02/26/2009	—	—	—	—	—	**5.5**	—	25 U	—	—	—	2.6 U	—	10 U	—	—	—
*	MW-49		02/09/2018	—	—	—	—	**0.814**	**0.639**	—	—	—	—	**0.118 J**	**0.102**	**0.632 J**	**0.302 J**	13 U	**0.612**	**0.623**
	MW-50		08/16/2017	—	—	—	—	**0.196 J**	**0.127 J**	—	—	—	—	0.03 U	0.03 U	**0.877**	**0.525**	13 U	**0.14 J**	**0.114 J**
	MW-50		02/14/2018	—	—	—	—	**0.212**	**0.142 J**	—	—	—	—	0.03 U	0.03 U	**1.3**	**0.555**	—	**0.121 J**	**0.11 J**
	MW-51		08/25/2017	—	—	—	—	**0.166 J**	**0.14 J**	—	—	—	—	0.03 U	0.03 U	**1.66**	**1.45**	**13**	**0.064 J**	**0.057 J**
	MW-51		02/14/2018	—	—	—	—	**0.137 J**	**0.084 J**	—	—	—	—	0.03 U	0.03 U	**1.64 J**	**0.684 J**	**13 R**	**0.084 J**	**0.074 J**
	MW-52		08/18/2017	—	—	—	—	**1.19**	**0.592**	—	—	—	—	0.03 U	0.03 U	**0.854 J**	0.26 U	**13 R**	**0.078 J**	**0.061 J**
	MW-52		08/18/2017	—	—	—	—	**1.16**	**0.52**	—	—	—	—	0.03 U	0.03 U	**0.802 J**	0.26 U	**13 R**	**0.087 J**	**0.06 J**
	MW-52		02/06/2018	—	—	—	—	**0.756**	**0.625**	—	—	—	—	0.03 U	0.03 U	**0.834 J**	**0.815 J**	13 U	**0.066 J**	**0.065 J**
	PL2-JF01A		03/10/1995	**50**	**30**	**1**	**2**	**1**	**1**	**12**	**11**	1 U	1 U	2 U	2 U	5 U	5 U	—	3 U	3 U
	PL2-JF01A		09/27/1995	**60**	—	1 U	—	**2**	—	**17**	—	1 U	—	2 U	—	5 U	—	—	3 U	—
	PL2-JF01A		11/17/1995	—	—	1 U	—	1 U	—	**14**	—	1 U	—	2 U	—	5 U	—	—	—	—
	PL2-JF01A		03/01/1996	—	—	1 U	—	**1**	—	**7**	—	1 U	—	2 U	—	5 U	—	—	—	—
	PL2-JF01A		05/23/1996	—	—	1 U	—	**2**	—	**7**	—	1 U	—	2 U	—	5 U	—	—	—	—
	PL2-JF01A		08/26/1996	—	—	1 U	—	1 U	—	**10**	—	1 U	—	2 U	—	5 U	—	—	—	—
	PL2-JF01A		11/21/1996	—	—	1 U	—	1 U	—	**10**	—	1 U	—	2 U	—	5 U	—	—	—	—
	PL2-JF01AR	23'-27'	05/17/2001	—	—	2 U	2 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	07/25/2001	—	—	2 U	2 U	**0.7**	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	10/24/2001	—	—	2 U	2 U	**0.8**	1 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	01/21/2002	—	—	2 U	2 U	**0.6**	**0.7**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	06/16/2003	—	—	50 U	50 U	0.5 U	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	09/02/2003	—	—	2 U	2 U	**0.4**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	12/08/2003	—	—	2 U	2 U	**0.4**	**0.3**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	12/19/2003	—	—	50 U	—	**0.3**	—	—	—	1 U	—	2 U	—	5 U	—	—	—	—
	PL2-JF01AR	23'-27'	02/02/2004	—	—	2 U	2 U	**0.4**	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	**6**	**8**	—	—	—
	PL2-JF01AR	23'-27'	05/10/2004	—	—	2 U	2 U	**0.4**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23.2'-27'	08/02/2004	—	—	2 U	2 U	**0.4**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23.2'-27'	09/27/2004	—	—	50 U	—	**0.5**	—	—	—	1 U	—	2 U	—	5 U	—	—	—	—
	PL2-JF01AR	23'-27'	11/01/2004	—	—	—	—	0.5 U	**0.8**	—	—	—	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	11/01/2004	—	—	2 U	2 U	—	—	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	02/01/2005	—	—	2 U	2 U	**0.4**	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23.2'-27'	05/02/2005	—	—	2 U	2 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	08/01/2005	—	—	—	—	**0.4**	**0.5**	—	—	—	—	—	—	—	—	—	—	—
	PL2-JF01AR	23'-27'	08/01/2005	—	—	2 U	2 U	—	—	—	—	0.2 U	0.2 U	2 U	2 U	**6**	**6**	—	—	—
	PL2-JF01AR	23'-27'	10/31/2005	—	—	2 U	2 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	02/06/2006	—	—	**2**	4 U	0.5 U	**1.8**	—	—	0.2 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	05/01/2006	—	—	2 U	2 U	0.5 U	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	07/31/2006	—	—	2 U	2 U	**0.4**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23.2'-27'	08/23/2006	—	—	50 U	50 U	**0.6**	0.5 U	—	—	1 U	1 U	0.2 U	0.2 U	2 U	5 U	—	—	—
	PL2-JF01AR	23'-27'	11/06/2006	—	—	2 U	2 U	1 U	**0.8**	—	—	0.5 U	0.5 U	2 U	2 U	**6**	**5**	—	—	—
	PL2-JF01AR	23'-27'	02/01/2007	—	—	50 U	50 U	**0.5**	**1.7**	—	—	1 U	1 U	0.5 U	0.5 U	**2**	1 U	—	—	—
	PL2-JF01AR	23'-27'	05/02/2007	—	—	4 U	2 U	**0.4**	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23.2'-27'	08/01/2007	—	—	2 U	2 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—
	PL2-JF01AR	23.2'-27'	11/12/2007	—	—	2 U	2 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	**6**	—	—	—
	PL2-JF01AR	23'-27'	01/30/2008	—	—	—	—	—	3 U	—	**67**	—	—	—	4 U	—	10 U	—	—	—

Table B-17A: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)																	
			Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt		
		CAS	7429-90-5		7440-36-0		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-47-3		18540-29-9	7440-48-4		
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	
PL2-JF01AR	23'-27'	02/04/2008	—	—	2 U	2 U	0.2 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01AR	23.2'-27'	05/12/2008	—	—	50 U	50 U	0.5 U	0.5 U	—	—	1 U	—	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01AR	23'-27'	08/04/2008	—	—	2 U	2 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01AR	23'-27'	08/04/2008	—	—	2 U	2 U	—	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01AR	23.2'-27'	02/03/2009	—	—	2 U	2 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01AR	23'-27'	08/10/2009	—	—	0.2 U	0.2 U	0.5 U	**0.9**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	**5**	—	—	—	
PL2-JF01AR	23.2'-27'	02/08/2010	—	—	0.2 U	0.2 U	**0.6**	**0.7**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01AR	23.2'-27'	08/03/2010	—	—	0.2 U	0.2 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01AR	23.2'-27'	01/31/2011	—	—	**0.057 J**	**0.066 J**	**0.625**	**0.56**	—	—	**0.03 J**	**0.018 J**	0.011 U	0.011 U	—	—	0.025 U	—	—	
PL2-JF01AR	23.2'-27'	08/15/2011	—	—	**0.054**	**0.055**	**0.388**	**0.421**	—	—	**0.019**	0.016 U	0.011 U	0.011 U	—	—	—	—	—	
PL2-JF01AR	23.2'-27'	08/19/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**0.106**	—	—	
PL2-JF01AR	23.2'-27'	02/06/2012	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**0.064**	—	—	
PL2-JF01AR	23.2'-27'	02/06/2012	—	—	0.42 U	0.42 U	0.95 U	0.95 U	—	—	0.13 U	0.13 U	0.2 U	0.2 U	—	—	**0.027**	—	—	
PL2-JF01AR	23.2'-27'	08/06/2012	—	—	0.33 U	0.33 U	0.4 U	0.4 U	—	—	0.025 U	**0.026 J**	0.082 U	0.082 U	—	—	**0.134**	—	—	
PL2-JF01AR	23.2'-27'	01/07/2013	—	—	0.33 U	0.33 U	0.4 U	0.4 U	—	—	0.044 U	0.044 U	0.12 U	0.12 U	—	—	**0.068 J**	—	—	
PL2-JF01AR	23.2'-27'	08/06/2013	—	—	0.34 U	0.34 U	0.42 U	0.42 U	—	—	0.043 U	0.043 U	0.23 U	0.23 U	—	—	**0.14**	—	—	
PL2-JF01B	40'-50'	03/31/1995	**30**	20 U	1 U	1 U	1 U	**1**	**17 J**	**18 J**	1 U	1 U	2 U	2 U	5 U	5 U	—	3 U	3 U	
PL2-JF01B	40'-50'	09/27/1995	**30**	—	1 U	—	**2**	—	**22**	—	1 U	—	2 U	—	5 U	—	—	3 U	—	
PL2-JF01B	40'-50'	11/17/1995	—	—	1 U	—	1 U	—	**22**	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF01B	40'-50'	03/01/1996	—	—	1 U	—	1 U	—	**16**	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF01B	40'-50'	05/23/1996	—	—	1 U	—	**1**	—	**13**	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF01B	40'-50'	08/26/1996	—	—	1 U	—	1 U	—	**12**	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF01B	40'-50'	11/21/1996	—	—	1 U	—	1 U	—	**19**	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF01B	40'-50'	04/26/2001	—	—	2 U	2 U	**1**	**1**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	07/25/2001	—	—	2 U	2 U	1 U	1 U	—	—	0.5 U	0.4 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	10/24/2001	—	—	2 U	2 U	**2.9**	2 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	01/21/2002	—	—	2 U	2 U	**2**	**1**	—	—	0.5 U	0.4 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	06/16/2003	—	—	50 U	50 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	09/02/2003	—	—	2 U	2 U	**2.2**	**3.5**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	12/08/2003	—	—	2 U	2 U	1 U	1 U	—	—	0.5 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	12/19/2003	—	—	50 U	—	**1.6**	—	—	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF01B	40'-50'	02/02/2004	—	—	2 U	2 U	**1**	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	05/10/2004	—	—	**2**	2 U	1 U	1 U	—	—	0.5 U	0.5 U	4 U	4 U	10 U	10 U	—	—	—	
PL2-JF01B	40'-50'	09/27/2004	—	—	50 U	—	**1.1**	—	—	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF01B	40'-50'	11/01/2004	—	—	4 U	4 U	**2.2**	**2.4**	—	—	0.5 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	02/01/2005	—	—	2 U	2 U	1 U	1 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	05/02/2005	—	—	4 U	4 U	**2.2**	**2**	—	—	0.5 U	0.5 U	4 U	4 U	10 U	10 U	—	—	—	
PL2-JF01B	40'-50'	08/01/2005	—	—	2 U	2 U	**0.5**	**0.6**	—	—	0.2 U	0.2 U	2 U	2 U	**10**	**12**	—	—	—	
PL2-JF01B	40'-50'	10/31/2005	—	—	2 U	2 U	2 U	2 U	—	—	0.5 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	02/06/2006	—	—	10 U	20 U	**0.7**	**1**	—	—	0.2 U	1 U	2 U	10 U	5 U	20 U	—	—	—	
PL2-JF01B	40'-50'	05/01/2006	—	—	4 U	4 U	1 U	1 U	—	—	0.5 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	07/31/2006	—	—	4 U	4 U	**1.6**	1 U	—	—	0.5 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	08/23/2006	—	—	50 U	50 U	**0.7**	0.5 U	—	—	1 U	1 U	0.2 U	0.2 U	**0.6**	2 U	—	—	—	
PL2-JF01B	40'-50'	11/06/2006	—	—	2 U	10 U	**2.4**	**1.8**	—	—	0.5 U	0.5 U	2 U	2 U	**8**	**8**	—	—	—	
PL2-JF01B	40'-50'	02/01/2007	—	—	50 U	50 U	**2**	1 U	—	—	1 U	1 U	0.5 U	0.5 U	1 U	1 U	—	—	—	
PL2-JF01B	40'-50'	05/02/2007	—	—	2 U	4 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	08/01/2007	—	—	10 U	10 U	1 U	1 U	—	—	0.5 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	11/12/2007	—	—	4 U	4 U	1 U	1 U	—	—	0.5 U	0.5 U	2 U	2 U	5 U	**6**	—	—	—	
PL2-JF01B	40'-50'	01/30/2008	—	—	—	—	—	3 U	—	**72**	—	—	—	4 U	—	10 U	—	—	—	
PL2-JF01B	40'-50'	02/04/2008	—	—	4 U	4 U	**0.7**	**1.2**	—	—	0.2 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—	

Table B-17A: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)																	
			Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt		
		CAS	7429-90-5		7440-36-0		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-47-3		18540-29-9	7440-48-4		
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	
PL2-JF01B	40'-50'	05/12/2008	—	—	50 U	50 U	1 U	1 U	—	—	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	08/04/2008	—	—	4 U	4 U	**0.8**	**0.5**	—	—	0.2 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	02/03/2009	—	—	4 U	4 U	1 U	1 U	—	—	0.5 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	08/10/2009	—	—	0.5 U	0.5 U	1 U	1 U	—	—	0.5 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	02/08/2010	—	—	0.5 U	0.5 U	**2**	**2**	—	—	0.5 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	08/03/2010	—	—	0.2 U	0.2 U	1 U	1 U	—	—	0.5 U	0.5 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01B	40'-50'	01/31/2011	—	—	**0.029 J**	**0.038 J**	**0.391**	**0.357**	—	—	**0.021 J**	0.016 U	0.011 U	0.011 U	—	—	0.025 U	—	—	
PL2-JF01B	40'-50'	08/15/2011	—	—	**0.037**	**0.065**	**0.37**	**0.333**	—	—	**0.034**	**0.026**	0.011 U	0.011 U	—	—	—	—	—	
PL2-JF01B	40'-50'	08/19/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**0.09**	—	—	
PL2-JF01B	40'-50'	02/06/2012	—	—	0.42 U	0.42 U	0.95 U	0.95 U	—	—	0.13 U	0.13 U	0.2 U	0.2 U	—	—	0.012 U	—	—	
PL2-JF01B	40'-50'	08/06/2012	—	—	0.33 U	0.33 U	0.4 U	0.4 U	—	—	0.025 U	0.025 U	0.082 U	0.082 U	—	—	**0.146**	—	—	
PL2-JF01B	40'-50'	01/07/2013	—	—	0.33 U	0.33 U	0.4 U	0.4 U	—	—	0.039 U	0.039 U	0.12 U	0.12 U	—	—	**0.076 J**	—	—	
PL2-JF01B	40'-50'	08/06/2013	—	—	0.34 U	0.34 U	0.42 U	0.42 U	—	—	0.043 U	0.043 U	0.23 U	0.23 U	—	—	**0.254**	—	—	
PL2-JF01C	74'-78'	05/17/2001	—	—	2 U	2 U	**8**	**4**	—	—	1 U	1 U	4 U	4 U	**10**	10 U	—	—	—	
PL2-JF01C	74'-78'	07/25/2001	—	—	2 U	4 U	**3**	2 U	—	—	1 U	1 U	2 U	2 U	**8**	5 U	—	—	—	
PL2-JF01C	74'-78'	10/24/2001	—	—	10 U	10 U	**10**	**6**	—	—	1 U	1 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01C	74'-78'	01/21/2002	—	—	10 U	10 U	5 U	**6**	—	—	2 U	2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF01C	74'-78'	06/16/2003	—	—	100 U	100 U	**6**	**3**	—	—	1 U	1 U	4 U	4 U	10 U	10 U	—	—	—	
PL2-JF01C	74'-78'	12/08/2003	—	—	10 U	10 U	**4**	2 U	—	—	1 U	1 U	4 U	4 U	**10**	10 U	—	—	—	
PL2-JF01C	74'-78'	12/19/2003	—	—	100 U	—	**4**	—	—	—	2 U	—	4 U	—	10 U	—	—	—	—	
PL2-JF01C	74'-78.5'	09/27/2004	—	—	100 U	—	**6**	—	—	—	2 U	—	4 U	—	10 U	—	—	—	—	
PL2-JF01C	74'-78'	11/01/2004	—	—	10 U	20 U	—	—	—	—	1 U	1 U	4 U	4 U	10 U	10 U	—	—	—	
PL2-JF01C	74'-78'	11/03/2004	—	—	—	—	**0.4**	—	—	—	—	—	—	—	—	—	—	—	—	
PL2-JF01C	74'-78.5'	02/01/2005	—	—	10 U	10 U	5 U	**3**	—	—	1 U	1 U	10 U	10 U	20 U	20 U	—	—	—	
PL2-JF01C	74'-78.5'	05/02/2005	—	—	10 U	10 U	**2.65**	**0.317 J**	—	—	1 U	1 U	20 U	20 U	50 U	50 U	—	—	—	
PL2-JF01C	74'-78.5'	08/01/2005	—	—	2 U	2 U	**2.94**	**0.3**	—	—	0.5 U	0.5 U	4 U	4 U	**60**	**60**	—	—	—	
PL2-JF01C	74'-78'	10/31/2005	—	—	10 U	10 U	**2.15**	**0.297**	—	—	1 U	1 U	4 U	4 U	10 U	10 U	—	—	—	
PL2-JF01C	74'-78'	02/06/2006	—	—	2 U	**4**	**1.72**	**0.291**	—	—	0.2 U	0.2 U	10 U	2 U	20 U	5 U	—	—	—	
PL2-JF01C	74'-78.5'	07/31/2006	—	—	10 U	10 U	**6**	**0.277**	—	—	1 U	1 U	4 U	10 U	10 U	20 U	—	—	—	
PL2-JF01C	74'-78.5'	08/23/2006	—	—	100 U	100 U	2 U	2 U	—	—	2 U	2 U	1 U	1 U	2 U	2 U	—	—	—	
PL2-JF01C	74'-78'	11/06/2006	—	—	2 U	20 U	**0.912**	**0.174**	—	—	0.5 U	0.5 U	4 U	4 U	**10**	10 U	—	—	—	
PL2-JF01C	74'-78.5'	02/01/2007	—	—	20 U	20 U	**5.2**	**4**	—	—	1 U	1 U	0.5 U	0.5 U	**4**	**2**	—	—	—	
PL2-JF01C	74'-78.5'	08/01/2007	—	—	20 U	20 U	**0.892**	**0.164**	—	—	1 U	1 U	4 U	10 U	10 U	20 U	—	—	—	
PL2-JF01C	74'-78.5'	11/12/2007	—	—	10 U	10 U	**0.772**	**4**	—	—	1 U	1 U	4 U	10 U	**20**	20 U	—	—	—	
PL2-JF01C	74'-78'	01/30/2008	—	—	—	—	—	3 U	—	—	—	—	—	4 U	—	10 U	—	—	—	
PL2-JF01C	74'-78.5'	05/12/2008	—	—	100 U	100 U	**0.79**	**4.12**	—	—	2 U	2 U	4 U	4 U	10 U	10 U	—	—	—	
PL2-JF01C	74'-78'	08/04/2008	—	—	—	—	**0.729**	**3**	—	—	—	—	4 U	10 U	10 U	20 U	—	—	—	
PL2-JF01C	74'-78'	08/10/2009	—	—	—	—	**4**	**9**	—	—	—	—	4 U	4 U	10 U	10 U	—	—	—	
PL2-JF01C	74'-78.5'	08/03/2010	—	—	1 U	1 U	**0.607**	**0.512**	—	—	1 U	1 U	4 U	4 U	10 U	10 U	—	—	—	
PL2-JF01C	74'-78.5'	01/31/2011	—	—	**0.177 J**	**0.068 J**	**2.18**	**0.844**	—	—	**0.163 J**	0.016 U	**0.04**	0.011 U	—	—	0.025 U	—	—	
PL2-JF01C	74'-78.5'	08/15/2011	—	—	**0.17**	**0.264**	**1.15**	**0.679**	—	—	**0.074**	**0.026**	**0.02**	0.011 U	—	—	—	—	—	
PL2-JF01C	74'-78.5'	08/19/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**0.112**	—	—	
PL2-JF01C	74'-78.5'	08/06/2012	—	—	10 U	10 U	20 U	20 U	—	—	0.5 U	0.5 U	5 U	5 U	—	—	**0.226**	—	—	
PL2-JF01C	74'-78.5'	08/06/2013	—	—	1 U	1 U	2 U	2 U	—	—	0.5 U	0.5 U	0.5 U	0.5 U	—	—	**0.186**	—	—	
PL2-JF02A	8'-22.75'	09/27/1995	**50**	—	1 U	—	**5**	—	**21**	—	1 U	—	2 U	—	5 U	—	—	3 U	—	
PL2-JF02A	8'-22.75'	11/17/1995	—	—	1 U	—	**2**	—	**10**	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF02A	8'-22.75'	03/01/1996	—	—	1 U	—	**4**	—	**14**	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF02A	8'-22.75'	05/23/1996	—	—	1 U	—	**4**	—	**6**	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF02A	8'-22.75'	08/26/1996	—	—	1 U	—	**4**	—	**9**	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF02A	8'-22.75'	11/21/1996	—	—	1 U	—	**2**	—	**3**	—	1 U	—	2 U	—	5 U	—	—	—	—	

Table B-17A: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter)																	
			Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt		
		CAS	7429-90-5		7440-36-0		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-47-3		18540-29-9	7440-48-4		
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved	
PL2-JF02A	8'-22.75'	11/21/1996	—	—	1 U	—	**2**	—	**4**	—	1 U	—	2 U	—	5 U	—	—	—	—	
PL2-JF02A	8'-22.75'	04/26/2001	—	—	2 U	2 U	**0.7**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	07/25/2001	—	—	2 U	2 U	**0.9**	**0.7**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	10/24/2001	—	—	2 U	2 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	01/21/2002	—	—	2 U	2 U	**3.8**	**3.9**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	06/16/2003	—	—	50 U	50 U	0.5 U	**0.5**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	09/02/2003	—	—	2 U	2 U	0.5 U	**0.8**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	12/08/2003	—	—	2 U	2 U	**1**	**0.8**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	02/02/2004	—	—	2 U	2 U	**1.4**	**0.8**	—	—	0.2 U	0.2 U	2 U	2 U	**6**	**6**	—	—	—	
PL2-JF02A	8'-22.75'	05/10/2004	—	—	**2**	2 U	**1.1**	**0.6**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	11/01/2004	—	—	2 U	2 U	**1.3**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	02/01/2005	—	—	2 U	2 U	**1.1**	**0.3**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	5.5'-23'	05/02/2005	—	—	2 U	**2**	**0.8**	**0.3**	—	—	0.2 U	0.2 U	2 U	2 U	**8**	5 U	—	—	—	
PL2-JF02A	8'-22.75'	08/01/2005	—	—	2 U	2 U	**0.4**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	**6**	**6**	—	—	—	
PL2-JF02A	8'-22.75'	10/31/2005	—	—	2 U	2 U	**0.5**	**0.2**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	02/06/2006	—	—	**2**	2 U	**0.9**	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	05/01/2006	—	—	2 U	2 U	**0.4**	**0.3**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	07/31/2006	—	—	2 U	2 U	**0.5**	**0.2**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	5.5'-23'	08/23/2006	—	—	50 U	50 U	**0.5**	**0.4**	—	—	1 U	1 U	0.2 U	0.2 U	2 U	1 U	—	—	—	
PL2-JF02A	8'-22.75'	11/06/2006	—	—	4 U	4 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	2 U	2 U	**5**	5 U	—	—	—	
PL2-JF02A	8'-22.75'	02/01/2007	—	—	50 U	50 U	0.5 U	0.5 U	—	—	1 U	1 U	0.5 U	0.5 U	1 U	1 U	—	—	—	
PL2-JF02A	8'-22.75'	05/02/2007	—	—	2 U	2 U	**0.4**	**0.3**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	5.5'-23'	08/01/2007	—	—	2 U	2 U	**0.3**	**0.3**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	5.5'-23'	11/12/2007	—	—	2 U	2 U	**0.3**	**0.2**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	01/30/2008	—	—	—	—	—	3 U	—	25 U	—	—	—	4 U	—	10 U	—	—	—	
PL2-JF02A	8'-22.75'	02/04/2008	—	—	2 U	2 U	**0.2**	**0.2**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	08/04/2008	—	—	2 U	2 U	0.5 U	0.5 U	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	5.5'-23'	02/03/2009	—	—	2 U	2 U	**0.8**	**0.2**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	08/10/2009	—	—	0.2 U	0.2 U	**0.3**	**0.3**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	8'-22.75'	02/08/2010	—	—	0.2 U	0.2 U	**0.7**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	5.5'-23'	08/03/2010	—	—	0.2 U	0.2 U	**0.2**	**0.4**	—	—	0.2 U	0.2 U	2 U	2 U	5 U	5 U	—	—	—	
PL2-JF02A	5.5'-23'	01/31/2011	—	—	**0.05 J**	**0.038 J**	**0.67**	**0.285**	—	—	**0.017 J**	0.016 U	**0.016**	0.011 U	—	—	0.025 U	—	—	
PL2-JF02A	5.5'-23'	08/15/2011	—	—	**0.039**	0.019 U	**0.308**	**0.299**	—	—	0.016 U	**0.022**	**0.012**	0.011 U	—	—	—	—	—	
PL2-JF02A	5.5'-23'	08/19/2011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**0.075**	—	—	
PL2-JF02A	5.5'-23'	02/06/2012	—	—	0.42 U	0.42 U	0.95 U	0.95 U	—	—	0.13 U	0.13 U	0.2 U	0.2 U	—	—	**0.024**	—	—	
PL2-JF02A	5.5'-23'	08/06/2012	—	—	0.33 U	0.33 U	0.4 U	0.4 U	—	—	0.025 U	0.025 U	0.082 U	0.082 U	—	—	0.039 U	—	—	
PL2-JF02A	5.5'-23'	01/07/2013	—	—	0.33 U	0.33 U	**0.65 J**	0.4 U	—	—	0.039 U	0.039 U	0.12 U	0.12 U	—	—	**0.055 J**	—	—	
PL2-JF02A	5.5'-23'	08/06/2013	—	—	0.34 U	0.34 U	0.42 U	0.42 U	—	—	0.043 U	0.043 U	0.23 U	0.23 U	—	—	**0.056 J**	—	—	
PL2-JF04A	8'-18'	08/23/2006	—	—	50 U	50 U	**8.1**	**8.5**	—	—	1 U	1 U	0.2 U	0.2 U	5 U	1 U	—	—	—	
PL2-JF04A	8'-18'	01/30/2008	—	—	—	—	—	**21**	—	25 U	—	—	—	4 U	—	10 U	—	—	—	

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-17B: Metals in Groundwater

	Sample Location	Sample Depths	Sample Date	(micrograms per liter)															
			CAS	Copper 7440-50-8		Iron 7439-89-6		Lead 7439-92-1		Manganese 7439-96-5		Mercury 7439-97-6		Nickel 7440-02-0		Selenium 7782-49-2		Silver 7440-22-4	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Area 1																			
*	GP-08901	14'	09/14/1994	**16**	**2**	—	—	**7**	1 U	—	—	**0.2**	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
*	GP-08902	14'	09/14/1994	**15**	2 U	—	—	**7**	**2**	—	—	0.1 U	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
*	GP-08903	14'	09/14/1994	**19**	2 U	—	—	4 U	**2**	—	—	0.1 U	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
*	GP-08904	14'	09/14/1994	**12**	**2**	—	—	3 U	**3**	—	—	0.1 U	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
*	GP-08905	14'	09/13/1994	**17**	2 U	—	—	**3**	**2**	—	—	0.1 U	0.1 U	**20**	10 U	50 U	50 U	3 U	3 U
	GP-08906	15'	11/29/1994	**51**	2 U	—	—	**12**	3 U	—	—	**0.1**	0.1 U	30 U	10 U	50 U	50 U	3 U	3 U
	GP-08906	25'	11/29/1994	5 U	2 U	—	—	3 U	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
	GP-08906	45'	11/29/1994	**19**	2 U	—	—	4 U	1 U	—	—	0.1 U	0.1 U	20 U	10 U	50 U	50 U	3 U	3 U
	GP-08906	65'	11/29/1994	**16**	2 U	—	—	4 U	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
	GP-08907	15'	11/28/1994	**100**	**3**	—	—	**16**	3 U	—	—	**0.2**	0.1 U	**60**	10 U	50 U	50 U	3 U	3 U
	GP-08907	25'	11/28/1994	**62**	2 U	—	—	**9**	2 U	—	—	**0.1**	0.1 U	**40**	10 U	50 U	50 U	3 U	3 U
	GP-08907	45'	11/28/1994	**26**	2 U	—	—	**6**	3 U	—	—	0.1 U	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
	GP-08907	63'	11/29/1994	**350**	2 U	—	—	**29**	3 U	—	—	**0.3**	0.1 U	**150**	10 U	**60**	50 U	3 U	3 U
*	GP-08908	14'	03/17/1995	**25**	2 U	—	—	**4**	1 U	—	—	0.1 U	0.1 U	**30**	10 U	50 U	50 U	3 U	3 U
*	GP-08908	25'	03/17/1995	**20**	**6**	—	—	**4**	**1**	—	—	0.1 U	0.1 U	**30**	**20**	50 U	50 U	3 U	3 U
*	GP-08908	45'	03/17/1995	**6**	2 U	—	—	**1**	**1**	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
	GP-09106	14'	03/14/1995	**3**	**43**	—	—	**7**	**7**	—	—	0.1 U	0.1 U	10 U	**20**	50 U	50 U	3 U	3 U
	GP-09106	25'	03/14/1995	**40**	2 U	—	—	**6**	1 U	—	—	0.1 U	0.1 U	**30**	**20**	50 U	50 U	3 U	3 U
	GP-09106	45'	03/14/1995	**25**	2 U	—	—	**5**	1 U	—	—	**0.3**	0.1 U	**20**	10 U	50 U	50 U	3 U	3 U
	MW-9	5'-20'	03/24/1992	**110**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	MW-9	5'-20'	01/31/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-9		08/17/2017	**6.21**	**2.09**	—	—	**0.16**	0.068 U	**1,140**	**810**	0.1 U	0.1 U	**2.95**	**2.38**	0.44 U	0.44 U	0.017 U	0.017 U
	MW-9		02/13/2018	**25.9 J**	2.25 U	—	—	**0.807**	0.068 U	**896**	**177**	—	—	**3.89**	**1.07**	**0.671**	0.44 U	—	—
*	MW-23	6'-15.75'	11/20/1992	100 U	—	—	—	500 U	—	—	—	500 U	—	—	—	500 U	—	100 U	—
*	MW-23	6'-15.75'	01/31/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-23	6'-15.75'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-23		08/16/2017	**1.22**	**0.649**	—	—	0.068 U	0.068 U	**2,280**	**2,270**	0.1 U	0.1 U	**1.17**	**1.13**	0.44 U	0.88 U	0.017 U	0.017 U
*	MW-23		02/12/2018	0.853 U	0.5 U	—	—	—	—	**2,130**	**1,790**	—	—	**0.99**	**1.06**	0.44 U	0.44 U	—	—
*	MW-24	6'-19.75'	01/31/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-24	6'-19.75'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-24		08/25/2017	**2.14**	**3.09**	—	—	0.34 U	**0.218**	**1,110**	**1,100**	0.1 U	0.1 U	**0.675**	**0.532**	**0.971**	**0.972**	**0.048 J**	**0.044 J**
*	MW-24		02/09/2018	0.68 U	0.979 U	—	—	0.068 U	0.068 U	**1,740**	**1,580**	—	—	**0.838 J**	**0.558**	0.88 U	0.44 U	0.017 U	0.017 U
	MW-25	6'-19.75'	01/31/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-25	6'-19.75'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
	MW-25		08/23/2017	**1.51**	0.34 U	—	—	**0.28**	0.068 U	**401**	**318**	0.1 U	0.1 U	**1.18**	**0.091 J**	0.44 U	0.44 U	0.017 U	0.017 U
	MW-25		02/09/2018	1.37 U	0.34 U	—	—	0.136 U	0.068 U	**387**	**194**	—	—	**0.906 J**	**0.285 J**	0.88 U	0.44 U	—	—
	MW-30	5'-19.5'	01/31/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-30		08/18/2017	0.34 U	0.34 U	—	—	0.068 U	0.068 U	**850**	**763**	0.1 U	0.1 U	**0.412 J**	**0.308 J**	0.44 U	0.44 U	0.017 U	0.017 U
	MW-30		02/09/2018	—	—	—	—	—	—	**882**	**713**	—	—	1 U	**0.244 J**	0.88 U	0.44 U	—	—
	MW-30		02/09/2018	—	—	—	—	—	—	**889**	**840**	—	—	1 U	**0.25 J**	0.88 U	0.44 U	—	—
	MW-48	5'-17'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
	MW-48	5'-17'	05/20/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-48	5'-17'	08/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-48	5'-17'	12/10/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
	MW-48		08/16/2017	**0.496 J**	0.34 U	—	—	0.068 U	0.068 U	**561**	**512**	0.1 U	0.1 U	**0.183 J**	0.192 U	0.44 U	2.2 U	0.017 U	0.017 U
	MW-48		02/09/2018	0.68 U	0.34 U	—	—	—	—	**503**	**497**	—	—	1 U	**0.071 J**	0.88 U	0.44 U	—	—
*	MW-49	5'-17'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-49		02/09/2018	1 U	0.729 U	—	—	0.068 U	0.068 U	**104**	**96.4**	0.1 U	0.1 U	**4.33**	**4.12**	0.88 U	0.44 U	0.017 U	0.017 U

Table B-17B: Metals in Groundwater

Sample Location	Sample Depths	Sample Date	(micrograms per liter)															
		CAS	Copper 7440-50-8		Iron 7439-89-6		Lead 7439-92-1		Manganese 7439-96-5		Mercury 7439-97-6		Nickel 7440-02-0		Selenium 7782-49-2		Silver 7440-22-4	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Area 2																		
MW-7		03/02/1990	—	—	—	—	**84**	—	—	—	**0.7**	—	—	—	**2**	—	10 U	—
MW-7	10'-20'	02/01/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-7	10'-20'	02/25/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
MW-7	10'-20'	05/20/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-7	10'-20'	08/25/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-7	10'-20'	12/10/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
MW-7		08/17/2017	**1.9 J**	**1.35**	—	—	**0.232**	0.068 U	**98.6**	**6.45**	0.1 U	0.1 U	**2.4**	**1.41**	0.44 U	0.44 U	0.017 U	0.017 U
MW-7		02/07/2018	1.68 U	1.23 U	—	—	0.068 U	0.068 U	**17.2**	2.22 U	—	—	**1.58**	**1.25**	0.44 U	0.44 U	—	—
MW-13	5'-20'	09/10/1992	—	—	—	—	**30**	—	—	—	—	—	—	—	—	—	—	—
MW-14	5'-20'	02/01/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-14	5'-20'	02/27/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
MW-14		08/25/2017	**0.727**	**0.348 J**	—	—	0.068 U	**4.19**	**2,130**	**2,050**	0.1 U	0.1 U	**2**	**1.7**	0.44 U	0.44 U	0.017 U	0.017 U
MW-14		02/12/2018	0.893 U	0.5 U	—	—	0.068 U	0.068 U	**1,690**	**1,680**	—	—	**1.62**	**1.49**	0.44 U	0.44 U	—	—
MW-15	5'-20'	01/31/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-15		08/23/2017	**2.96**	**1.09**	—	—	0.136 U	0.068 U	**457**	**5.96**	0.1 U	0.1 U	**5.9**	**1.47**	0.44 U	0.44 U	0.034 U	0.017 U
MW-15		02/12/2018	2.97 U	1.21 U	—	—	—	—	**196**	**17.7**	—	—	**4.49**	**2.34**	0.44 U	0.44 U	—	—
MW-32	5'-20'	02/01/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-32	5'-20'	02/27/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
MW-32		08/24/2017	0.5 U	0.34 U	—	—	0.34 U	0.068 U	**1,110**	**971**	0.1 U	0.1 U	0.725 U	**0.588 J**	0.44 U	0.44 U	0.017 U	0.017 U
MW-32		02/07/2018	0.916 U	0.519 U	—	—	0.068 U	0.068 U	**390**	**373**	0.1 U	0.1 U	**2.08**	**2.11**	0.88 U	0.44 U	0.034 U	0.017 U
MW-34	5'-15'	02/01/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-36		02/01/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-36		02/27/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
MW-36		08/21/2017	0.34 U	0.34 U	—	—	0.068 U	0.068 U	**3,210**	**3,110**	0.1 U	0.1 U	**0.656**	**0.557**	0.44 U	0.44 U	0.017 U	0.017 U
MW-36		02/08/2018	—	—	—	—	—	—	**2,950**	**2,510**	—	—	**0.511 J**	**0.468 J**	0.44 U	0.44 U	—	—
MW-37	10'-25'	02/25/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
MW-37	10'-25'	05/20/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-37	10'-25'	08/27/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-37	10'-25'	12/11/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
MW-37		08/17/2017	**7.17**	**4.81**	—	—	0.34 U	0.068 U	**1,100**	**1,010**	0.1 U	0.1 U	**8.6**	**6.54**	0.44 U	0.44 U	0.085 U	0.017 U
MW-37		02/09/2018	2.15 U	1 U	—	—	—	—	**9.11 J**	0.5 U	—	—	**5.23**	**4.76**	0.88 U	**0.503**	—	—
Area 3																		
MW-3	4.5'-19.75'	01/31/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-3		02/07/2018	—	—	—	—	**0.074 J**	0.068 U	—	—	—	—	—	—	—	—	—	—
MW-4	4.75'-20'	01/31/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-4		02/07/2018	2.6 U	1.52 U	—	—	**0.124**	0.068 U	**23.7**	**16.8**	0.1 U	0.1 U	**2.85**	**2.98**	0.44 U	0.44 U	0.017 U	0.017 U
MW-8		03/02/1990	—	—	—	—	10 U	—	—	—	—	—	—	—	—	—	—	—
MW-8	5'-20'	01/31/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-8	5'-20'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
MW-8		02/07/2018	0.94 U	0.934 U	—	—	0.068 U	0.068 U	4.99 U	**4.95 J**	0.1 U	0.1 U	0.5 U	**0.343 J**	0.44 U	0.44 U	0.017 U	0.017 U
MW-8		02/07/2018	0.773 U	0.855 U	—	—	0.068 U	0.068 U	2.95 U	2.2 U	0.1 U	0.1 U	0.5 U	**0.373 J**	0.44 U	0.44 U	0.017 U	0.017 U
Area 4																		
MW-10	5'-20'	02/01/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-11	5'-20'	03/24/1992	**38**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-11		08/24/2017	1.36 U	**1.12**	—	—	0.287 U	0.068 U	**1,740**	**1,570**	0.1 U	0.1 U	**2.95**	**1.49**	0.44 U	0.44 U	0.017 U	0.017 U
MW-11		02/13/2018	0.34 U	0.34 U	—	—	0.068 U	0.068 U	**2,030**	**1,930**	0.1 U	0.1 U	**1.21**	**0.988**	0.44 U	0.44 U	0.017 U	0.017 U

Table B-17B: Metals in Groundwater

Sample Location	Sample Depths	Sample Date	(micrograms per liter)															
		CAS	Copper 7440-50-8		Iron 7439-89-6		Lead 7439-92-1		Manganese 7439-96-5		Mercury 7439-97-6		Nickel 7440-02-0		Selenium 7782-49-2		Silver 7440-22-4	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Area 5																		
MW-40	10'-25'	02/27/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
MW-40	10'-25'	05/20/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-40	10'-25'	08/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-40	10'-25'	12/18/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
MW-40		02/08/2018	0.34 U	0.34 U	—	—	0.068 U	0.068 U	**1,540**	**1,340**	0.1 U	0.1 U	**1.05**	**0.704**	0.44 U	0.44 U	0.017 U	0.017 U
MW-41	30'-40'	02/27/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
MW-41	30'-40'	05/20/2009	—	10 U	—	—	—	**2.7**	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-41	30'-40'	08/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
MW-41	30'-40'	12/18/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
MW-41		02/08/2018	1.7 U	0.34 U	—	—	0.068 U	0.068 U	**998**	**888**	0.1 U	0.1 U	**1.7 J**	**0.63**	2.2 U	0.44 U	0.017 U	0.017 U
Area 6																		
GP-06640	14'	03/15/1995	**3 J**	2 U	—	—	**2 J**	**1 J**	—	—	0.1 U	0.1 U	**20 J**	**20**	50 U	50 U	3 U	3 U
GP-06640	25'	03/15/1995	**45**	2 U	—	—	**7 J**	1 U	—	—	0.1 U	0.1 U	**40**	10 U	50 U	50 U	3 U	3 U
GP-06640	45'	03/15/1995	**60**	2 U	—	—	**7 J**	**1 J**	—	—	**0.1**	0.1 U	**50**	**20**	50 U	50 U	3 U	3 U
GP-09104	15'	11/23/1994	**517**	2 U	—	—	**83**	**2**	—	—	**0.9**	0.1 U	**210**	10 U	**70**	50 U	3 U	3 U
GP-09104	25'	11/23/1994	**65**	2 U	—	—	**10**	**2**	—	—	0.1 U	0.1 U	**60**	10 U	50 U	50 U	3 U	3 U
GP-09104	45'	11/23/1994	**101**	2 U	—	—	8 U	1 U	—	—	0.1 U	0.1 U	**30**	10 U	50 U	50 U	3 U	3 U
GP-09105	15'	11/23/1994	**398**	2 U	—	—	**59**	**2**	—	—	**0.8**	0.1 U	**210**	10 U	**60**	50 U	3 U	3 U
GP-09105	25'	11/23/1994	**39**	2 U	—	—	7 U	**2**	—	—	0.1 U	0.1 U	**30**	10 U	50 U	50 U	3 U	3 U
GP-09105	45'	11/23/1994	**122**	2 U	—	—	7 U	**1**	—	—	0.1 U	0.1 U	**40**	10 U	50 U	50 U	3 U	3 U
GP-09107	14'	03/14/1995	**53**	2 U	—	—	**9**	1 U	—	—	**0.2**	0.1 U	**30**	10 U	50 U	50 U	3 U	3 U
GP-09107	25'	03/14/1995	**63**	2 U	—	—	**11**	1 U	—	—	**0.1**	0.1 U	**50**	10 U	50 U	50 U	3 U	3 U
GP-09107	45'	03/14/1995	**97**	2 U	—	—	**7**	1 U	—	—	0.1 U	0.1 U	**30**	10 U	50 U	50 U	3 U	3 U
GP-09108	14'	03/14/1995	**56**	**3**	—	—	**8**	**1**	—	—	**0.1**	0.1 U	**30**	10 U	50 U	50 U	3 U	3 U
GP-09108	25'	03/14/1995	**12**	2 U	—	—	**4**	1 U	—	—	0.1 U	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
GP-09108	45'	03/14/1995	**13**	2 U	—	—	**4**	1 U	—	—	0.1 U	0.1 U	10 U	**10**	50 U	50 U	3 U	3 U
GP-09109	14'	03/15/1995	**37**	**7**	—	—	**6 J**	**1 J**	—	—	0.1 U	0.1 U	**20**	10 U	50 U	50 U	3 U	3 U
GP-09109	25'	03/15/1995	**37**	2 U	—	—	**8 J**	1 U	—	—	0.1 U	0.1 U	**30**	10 U	50 U	50 U	3 U	3 U
GP-09109	45'	03/15/1995	**46**	2 U	—	—	**8 J**	1 U	—	—	0.1 U	0.1 U	**20**	10 U	50 U	50 U	3 U	3 U
GP-09110	15'	09/19/1995	**15**	**7**	—	—	4 U	4 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
GP-09110	25'	09/19/1995	**6**	2 U	—	—	2 U	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
GP-09110	45'	09/19/1995	**3**	2 U	—	—	2 U	2 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
GP-09111	15'	09/20/1995	**63**	14 U	—	—	**10**	2 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
GP-09111	25'	09/20/1995	**3**	2 U	—	—	**2**	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
GP-09111	45'	09/20/1995	**3**	2 U	—	—	**2**	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
GP-09112	15'	09/19/1995	**30**	2 U	—	—	**8**	1 U	—	—	0.1 U	0.1 U	**30**	10 U	50 U	50 U	3 U	3 U
GP-09112	25'	09/19/1995	**9**	2 U	—	—	2 U	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
GP-09112	45'	09/19/1995	**25**	**2**	—	—	5 U	1 U	—	—	0.1 U	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
* GP-09113	15'	09/19/1995	**45**	2 U	—	—	**12**	2 U	—	—	0.1 U	0.1 U	**50**	**20**	50 U	50 U	3 U	3 U
* GP-09113	25'	09/19/1995	**3**	2 U	—	—	3 U	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
* GP-09113	45'	09/19/1995	**4**	2 U	—	—	2 U	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
* GP-09114	15'	09/20/1995	**16**	3 U	—	—	**6**	2 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
* GP-09114	25'	09/20/1995	**15**	2 U	—	—	**8**	**8**	—	—	0.1 U	0.1 U	10 U	10 U	**80**	50 U	3 U	3 U
* GP-09114	45'	09/20/1995	**6**	2 U	—	—	**1**	3 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
* GP-09115	15'	09/19/1995	**5**	2 U	—	—	**9**	**6**	—	—	0.1 U	0.1 U	10 U	10 U	**50**	50 U	3 U	3 U
* GP-09115	25'	09/19/1995	**5**	2 U	—	—	**2**	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
* GP-09115	45'	09/19/1995	**5**	2 U	—	—	**1**	2 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
* MW-6		03/02/1990	—	—	—	—	**55**	—	—	—	**0.2**	—	—	—	**0.8**	—	10 U	—

Table B-17B: Metals in Groundwater

	Sample Location	Sample Depths	Sample Date	Copper 7440-50-8		Iron 7439-89-6		Lead 7439-92-1		Manganese 7439-96-5		Mercury 7439-97-6		Nickel 7440-02-0		Selenium 7782-49-2		Silver 7440-22-4	
			CAS																
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
								(micrograms per liter)											
*	MW-6	10'-20'	01/30/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-6		08/21/2017	**9.69**	**0.434 J**	—	—	**1.26**	0.068 U	**516**	**510**	0.1 U	0.1 U	**1.22**	**0.272 J**	0.44 U	0.44 U	0.017 U	0.017 U
*	MW-6		02/13/2018	4.48 U	1.23 U	—	—	**0.807**	**0.072 J**	**245**	**208**	—	—	**1.61**	**0.607**	**1.31**	**0.855**	—	—
	MW-31	5'-20'	01/30/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-31	5'-20'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
	MW-31		08/16/2017	**0.531 J**	0.34 U	—	—	0.068 U	0.068 U	**841**	**767**	0.1 U	0.1 U	**1.29**	**1.12**	0.44 U	0.88 U	0.017 U	0.017 U
	MW-31		02/06/2018	0.546 U	0.34 U	—	—	—	—	**830**	**786**	—	—	0.5 U	**0.398 J**	0.44 U	0.44 U	—	—
	MW-45	30'-40'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
	MW-45	30'-40'	05/21/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-45	30'-40'	08/27/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-45	30'-40'	12/11/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
	MW-45		08/16/2017	0.34 U	0.34 U	—	—	0.068 U	0.068 U	**867**	**814**	0.1 U	0.1 U	**0.554**	**0.439 J**	0.44 U	2.2 U	0.017 U	0.017 U
	MW-45		02/06/2018	—	—	—	—	—	—	**891**	**838**	—	—	**0.554 J**	**0.662**	0.44 U	0.44 U	—	—
	MW-46	5'-20'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
	MW-46	5'-20'	05/21/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-46	5'-20'	08/27/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-46	5'-20'	12/11/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
	MW-46		02/06/2018	0.34 U	0.34 U	—	—	0.068 U	0.068 U	**1,120**	**1,100**	0.1 U	0.1 U	**0.712 J**	**0.563**	0.44 U	0.44 U	0.017 U	0.017 U
*	SB-13	12'-16'	02/06/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	SB-14	12'-16'	02/06/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	SB-15	12'-16'	02/06/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	SB-16	12'-16'	02/06/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
Area 7																			
	MW-38	10'-25'	02/24/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
	MW-38	10'-25'	05/20/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-38	10'-25'	12/10/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
	MW-38		08/16/2017	**2.87**	**2.54**	—	—	0.068 U	0.068 U	**103**	**82.6**	0.1 U	0.1 U	**1.54**	**1.32**	**0.646**	2.2 U	0.017 U	0.017 U
	MW-38		02/09/2018	2.63 U	2.11 U	—	—	—	—	**23.3**	**10.3**	—	—	**0.754 J**	**0.562**	**0.91 J**	**0.771**	—	—
*	MW-39	5'-20'	02/24/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-39	5'-20'	05/20/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-39	5'-20'	08/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-39	5'-20'	12/10/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
*	MW-39		08/28/2017	3.4 U	3.4 U	—	—	0.68 U	0.68 U	**4.41**	**1.27 J**	0.1 U	0.1 U	**0.72 J**	**0.6 J**	4.4 U	4.4 U	0.17 U	0.17 U
*	MW-39		02/13/2018	—	—	—	—	—	—	**2,180**	0.5 U	—	—	**24.7**	**0.074 J**	**1.46**	0.44 U	—	—
*	MW-42	5'-20'	02/25/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-42	5'-20'	05/20/2009	—	10 U	—	—	—	**1**	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-42	5'-20'	08/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-42	5'-20'	12/10/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
*	MW-42		08/23/2017	**0.928**	**0.79**	—	—	**0.073 J**	0.068 U	**95.7**	**89**	**0.1**	0.1 U	**0.33 J**	**0.322 J**	0.44 U	0.44 U	0.017 U	0.017 U
*	MW-42		02/14/2018	1.02 U	0.886 U	—	—	0.068 U	0.068 U	2.46 U	0.5 U	0.1 U	0.1 U	0.5 U	**0.154 J**	**0.578**	**0.619**	—	—
*	MW-43	30'-40'	02/25/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-43	30'-40'	05/20/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-43	30'-40'	08/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-43	30'-40'	12/11/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
*	MW-43		08/24/2017	2.15 U	**0.376 J**	—	—	0.136 U	0.068 U	**130**	**116**	0.1 U	0.1 U	0.5 U	0.5 U	0.44 U	0.44 U	0.017 U	0.017 U
*	MW-43		02/14/2018	0.527 U	0.34 U	—	—	—	—	**105**	**87.6**	—	—	0.5 U	**0.149 J**	0.44 U	0.44 U	—	—
*	MW-44	50'-60'	02/25/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-44	50'-60'	05/20/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-44	50'-60'	08/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-44	50'-60'	12/18/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U

Table B-17B: Metals in Groundwater

	Sample Location	Sample Depths	Sample Date	(micrograms per liter)													
			CAS	Copper 7440-50-8		Iron 7439-89-6		Lead 7439-92-1		Manganese 7439-96-5		Mercury 7439-97-6		Nickel 7440-02-0		Selenium 7782-49-2		Silver 7440-22-4	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
*	MW-44		08/23/2017	**1.28**	**0.466 J**	—	—	0.34 U	0.068 U	**117**	**80.9**	**0.1**	0.1 U	**2.04**	**2.01**	**0.545**	**0.529**	0.085 U	0.017 U
*	MW-44		02/14/2018	1.7 U	2.5 U	—	—	—	—	**412**	**377**	0.1 U	0.1 U	0.25 U	0.25 U	**2.63**	**4.02**	—	—
Area 8																			
*	GP-09113	15'	09/19/1995	**45**	2 U	—	—	**12**	2 U	—	—	0.1 U	0.1 U	**50**	**20**	50 U	50 U	3 U	3 U
*	GP-09113	25'	09/19/1995	**3**	2 U	—	—	3 U	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
*	GP-09113	45'	09/19/1995	**4**	2 U	—	—	2 U	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
*	GP-09114	15'	09/20/1995	**16**	3 U	—	—	**6**	2 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
*	GP-09114	25'	09/20/1995	**15**	2 U	—	—	**8**	**8**	—	—	0.1 U	0.1 U	10 U	10 U	**80**	50 U	3 U	3 U
*	GP-09114	45'	09/20/1995	**6**	2 U	—	—	**1**	3 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
*	GP-09115	15'	09/19/1995	**5**	2 U	—	—	**9**	**6**	—	—	0.1 U	0.1 U	10 U	10 U	**50**	50 U	3 U	3 U
*	GP-09115	25'	09/19/1995	**5**	2 U	—	—	**2**	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
*	GP-09115	45'	09/19/1995	**5**	2 U	—	—	**1**	2 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
*	MW-6		03/02/1990	—	—	—	—	**55**	—	—	—	**0.2**	—	—	—	**0.8**	—	10 U	—
*	MW-6	10'-20'	01/30/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-6		08/21/2017	**9.69**	**0.434 J**	—	—	**1.26**	0.068 U	**516**	**510**	0.1 U	0.1 U	**1.22**	**0.272 J**	0.44 U	0.44 U	0.017 U	0.017 U
*	MW-6		02/13/2018	4.48 U	1.23 U	—	—	**0.807**	**0.072 J**	**245**	**208**	—	—	**1.61**	**0.607**	**1.31**	**0.855**	—	—
*	MW-39	5'-20'	02/24/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-39	5'-20'	05/20/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-39	5'-20'	08/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-39	5'-20'	12/10/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
*	MW-39		08/28/2017	3.4 U	3.4 U	—	—	0.68 U	0.68 U	**4.41**	**1.27 J**	0.1 U	0.1 U	**0.72 J**	**0.6 J**	4.4 U	4.4 U	0.17 U	0.17 U
*	MW-39		02/13/2018	—	—	—	—	—	—	**2,180**	0.5 U	—	—	**24.7**	**0.074 J**	**1.46**	0.44 U	—	—
*	MW-42	5'-20'	02/25/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-42	5'-20'	05/20/2009	—	10 U	—	—	—	**1**	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-42	5'-20'	08/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-42	5'-20'	12/10/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
*	MW-42		08/23/2017	**0.928**	**0.79**	—	—	**0.073 J**	0.068 U	**95.7**	**89**	**0.1**	0.1 U	**0.33 J**	**0.322 J**	0.44 U	0.44 U	0.017 U	0.017 U
*	MW-42		02/14/2018	1.02 U	0.886 U	—	—	0.068 U	0.068 U	2.46 U	0.5 U	0.1 U	0.1 U	0.5 U	**0.154 J**	**0.578**	**0.619**	—	—
*	MW-43	30'-40'	02/25/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-43	30'-40'	05/20/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-43	30'-40'	08/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-43	30'-40'	12/11/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
*	MW-43		08/24/2017	2.15 U	**0.376 J**	—	—	0.136 U	0.068 U	**130**	**116**	0.1 U	0.1 U	0.5 U	0.5 U	0.44 U	0.44 U	0.017 U	0.017 U
*	MW-43		02/14/2018	0.527 U	0.34 U	—	—	—	—	**105**	**87.6**	—	—	0.5 U	**0.149 J**	0.44 U	0.44 U	—	—
*	MW-44	50'-60'	02/25/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-44	50'-60'	05/20/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-44	50'-60'	08/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-44	50'-60'	12/18/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
*	MW-44		08/23/2017	**1.28**	**0.466 J**	—	—	0.34 U	0.068 U	**117**	**80.9**	**0.1**	0.1 U	**2.04**	**2.01**	**0.545**	**0.529**	0.085 U	0.017 U
*	MW-44		02/14/2018	1.7 U	2.5 U	—	—	—	—	**412**	**377**	0.1 U	0.1 U	0.25 U	0.25 U	**2.63**	**4.02**	—	—
	MW-47	5'-20'	02/25/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
	MW-47	5'-20'	05/21/2009	—	**10**	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-47	5'-20'	08/27/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-47	5'-20'	12/11/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
	PL2-JF03A	8'-22.75'	09/28/1995	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
	PL2-JF03A	8'-22.75'	11/17/1995	2 U	—	—	—	**1**	—	—	—	0.1 U	—	**10**	—	50 U	—	3 U	—
	PL2-JF03A	8'-22.75'	03/01/1996	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
	PL2-JF03A	8'-22.75'	05/23/1996	**8**	—	—	—	**2**	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
	PL2-JF03A	8'-22.75'	08/26/1996	**7**	—	—	—	**2**	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
	PL2-JF03A	8'-22.75'	11/21/1996	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—

Table B-17B: Metals in Groundwater

	Sample Location	Sample Depths	Sample Date	(micrograms per liter)															
			CAS	Copper 7440-50-8		Iron 7439-89-6		Lead 7439-92-1		Manganese 7439-96-5		Mercury 7439-97-6		Nickel 7440-02-0		Selenium 7782-49-2		Silver 7440-22-4	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
	PL2-JF03A	8'-22.75'	04/26/2001	**2.2 J**	**2.9**	—	—	1 U	1 U	—	—	**0.000426 J**	0.0002 U	**1.4**	**1.1**	50 U	50 U	0.5 U	0.5 U
	PL2-JF03A	8'-22.75'	07/25/2001	**0.7**	0.5 U	—	—	**2**	1 U	—	—	**0.00514 J**	0.0002 U	**1.2**	**1**	50 U	50 U	0.5 U	0.5 U
	PL2-JF03A	8'-22.75'	10/24/2001	0.5 U	0.5 U	—	—	1 U	1 U	—	—	0.0002 U	**0.000283 J**	**1.6**	**1.2**	50 U	50 U	0.5 U	0.5 U
	PL2-JF03A	8'-22.75'	01/21/2002	**1**	**0.6**	—	—	1 U	1 U	—	—	**0.000422 J**	0.0002 U	**1.6**	**0.9**	50 U	50 U	0.5 U	0.5 U
	PL2-JF03A	8'-22.75'	06/16/2003	**1.3**	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1.5**	**1.2**	0.5 U	0.5 U	0.5 U	0.5 U
	PL2-JF03A	8'-22.75'	12/08/2003	**2.1**	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1.6**	**0.8**	50 U	50 U	0.5 U	0.5 U
	PL2-JF03A	8'-22.75'	11/01/2004	**2.1**	0.6 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1.1**	**1**	50 U	50 U	0.2 U	0.2 U
	PL2-JF03A	6'-23'	05/02/2005	**7.1**	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**3.6**	**0.9**	50 U	50 U	0.2 U	0.2 U
	PL2-JF03A	8'-22.75'	10/31/2005	1 U	1 U	—	—	—	—	—	—	0.02 U	0.02 U	**0.8**	**1**	50 U	50 U	0.2 U	0.2 U
*	SB-13	12'-16'	02/06/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	SB-14	12'-16'	02/06/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	SB-15	12'-16'	02/06/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	SB-16	12'-16'	02/06/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	Seep-20		07/01/2004	**10.2 J**	**8.16 J**	—	—	**1.44**	**0.096**	—	—	**0.00061**	**0.00062**	—	—	—	—	**0.086**	**0.112**
	Area 9																		
	GP-06637	14'	03/15/1995	**47**	**4**	—	—	**8 J**	1 U	—	—	**0.1**	0.1 U	**110**	**60**	50 U	50 U	3 U	3 U
	GP-06637	25'	03/15/1995	**45**	2 U	—	—	**6 J**	1 U	—	—	0.1 U	0.1 U	**30**	10 U	50 U	50 U	3 U	3 U
	GP-06637	45'	03/15/1995	**22**	2 U	—	—	**4 J**	1 U	—	—	0.1 U	0.1 U	**10**	**10**	50 U	50 U	3 U	3 U
	GP-06638	14'	03/16/1995	**88**	**2**	—	—	**10**	**1**	—	—	**0.1**	0.1 U	**50**	**10**	50 U	50 U	3 U	3 U
	GP-06638	25'	03/16/1995	**55**	2 U	—	—	**8**	**1**	—	—	0.1 U	0.1 U	**50**	10 U	50 U	50 U	3 U	3 U
	GP-06638	45'	03/16/1995	**116**	2 U	—	—	**8**	1 U	—	—	0.1 U	0.1 U	**60**	10 U	50 U	50 U	3 U	3 U
	GP-06639	14'	03/16/1995	**67 J**	**6**	—	—	**8 J**	1 U	—	—	**0.1**	0.1 U	**30**	10 U	50 U	50 U	3 U	3 U
	GP-06639	25'	03/16/1995	**67**	2 U	—	—	**9**	**1**	—	—	**0.5**	0.1 U	**50**	10 U	50 U	50 U	3 U	3 U
	GP-06639	45'	03/16/1995	**16 J**	2 U	—	—	**2**	1 U	—	—	0.1 U	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
*	GP-08901	14'	09/14/1994	**16**	**2**	—	—	**7**	1 U	—	—	**0.2**	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
*	GP-08902	14'	09/14/1994	**15**	2 U	—	—	**7**	**2**	—	—	0.1 U	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
*	GP-08903	14'	09/14/1994	**19**	2 U	—	—	4 U	**2**	—	—	0.1 U	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
*	GP-08904	14'	09/14/1994	**12**	**2**	—	—	3 U	**3**	—	—	0.1 U	0.1 U	**10**	10 U	50 U	50 U	3 U	3 U
*	GP-08905	14'	09/13/1994	**17**	2 U	—	—	**3**	**2**	—	—	0.1 U	0.1 U	**20**	10 U	50 U	50 U	3 U	3 U
*	GP-08908	14'	03/17/1995	**25**	2 U	—	—	**4**	1 U	—	—	0.1 U	0.1 U	**30**	10 U	50 U	50 U	3 U	3 U
*	GP-08908	25'	03/17/1995	**20**	**6**	—	—	**4**	**1**	—	—	0.1 U	0.1 U	**30**	**20**	50 U	50 U	3 U	3 U
*	GP-08908	45'	03/17/1995	**6**	2 U	—	—	**1**	**1**	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
	GP-09101	15'	09/12/1994	**6**	2 U	—	—	3 U	3 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
	GP-09102	14'	09/08/1994	2 U	2 U	—	—	3 U	**2**	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
	GP-09103	14'	09/08/1994	**9**	2 U	—	—	4 U	**4**	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
	MW-5		03/02/1990	—	—	—	—	52 U	—	—	—	**2**	—	—	—	**0.3**	—	10 U	—
	MW-5	10'-20'	01/30/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-5	10'-20'	02/24/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
	MW-5	10'-20'	05/21/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-5	10'-20'	08/27/2009	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	MW-5	10'-20'	12/11/2009	—	10 U	—	—	—	1 U	—	—	—	0.13 U	—	—	—	—	—	1.5 U
*	MW-23	6'-15.75'	11/20/1992	100 U	—	—	—	500 U	—	—	—	500 U	—	—	—	500 U	—	100 U	—
*	MW-23	6'-15.75'	01/31/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-23	6'-15.75'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-23		08/16/2017	**1.22**	**0.649**	—	—	0.068 U	0.068 U	**2,280**	**2,270**	0.1 U	0.1 U	**1.17**	**1.13**	0.44 U	0.88 U	0.017 U	0.017 U
*	MW-23		02/12/2018	0.853 U	0.5 U	—	—	—	—	**2,130**	**1,790**	—	—	**0.99**	**1.06**	0.44 U	0.44 U	—	—
*	MW-24	6'-19.75'	01/31/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
*	MW-24	6'-19.75'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-24		08/25/2017	**2.14**	**3.09**	—	—	0.34 U	**0.218**	**1,110**	**1,100**	0.1 U	0.1 U	**0.675**	**0.532**	**0.971**	**0.972**	**0.048 J**	**0.044 J**
*	MW-24		02/09/2018	0.68 U	0.979 U	—	—	0.068 U	0.068 U	**1,740**	**1,580**	—	—	**0.838 J**	**0.558**	0.88 U	0.44 U	0.017 U	0.017 U

Table B-17B: Metals in Groundwater

	Sample Location	Sample Depths	Sample Date	(micrograms per liter)													
				Copper		Iron		Lead		Manganese		Mercury		Nickel		Selenium		Silver	
			CAS	7440-50-8		7439-89-6		7439-92-1		7439-96-5		7439-97-6		7440-02-0		7782-49-2		7440-22-4	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
*	MW-49	5'-17'	02/26/2009	—	10 U	—	—	—	1 U	—	—	—	0.125 U	—	—	—	—	—	1.5 U
*	MW-49		02/09/2018	1 U	0.729 U	—	—	0.068 U	0.068 U	**104**	**96.4**	0.1 U	0.1 U	**4.33**	**4.12**	0.88 U	0.44 U	0.017 U	0.017 U
	MW-50		08/16/2017	0.34 U	0.34 U	—	—	0.34 U	0.068 U	**740**	**693**	0.1 U	0.1 U	**0.238 J**	**0.233 J**	0.44 U	0.44 U	0.085 U	0.017 U
	MW-50		02/14/2018	0.34 U	0.34 U	—	—	0.068 U	0.068 U	**597**	**542**	0.1 U	0.1 U	0.5 U	**0.188 J**	0.44 U	0.44 U	0.017 U	0.017 U
	MW-51		08/25/2017	**0.519**	**0.462 J**	—	—	0.068 U	0.068 U	**335**	**338**	0.1 U	0.1 U	**0.131 J**	**0.178 J**	0.44 U	0.44 U	0.017 U	0.017 U
	MW-51		02/14/2018	0.5 U	0.34 U	—	—	0.068 U	0.068 U	**722**	**646**	0.1 U	0.1 U	0.5 U	**0.161 J**	0.44 U	0.44 U	0.017 U	0.017 U
	MW-52		08/18/2017	0.34 U	0.34 U	—	—	0.068 U	0.068 U	**1,220**	**1,000**	0.1 U	0.1 U	**0.369 J**	**0.314 J**	0.44 U	0.44 U	0.017 U	0.017 U
	MW-52		08/18/2017	**0.677 J**	0.34 U	—	—	0.068 U	0.068 U	**1,160**	**1,080**	0.1 U	0.1 U	**0.43 J**	**0.374 J**	0.44 U	0.44 U	0.017 U	0.017 U
	MW-52		02/06/2018	0.34 U	0.34 U	—	—	0.068 U	0.068 U	**900**	**828**	0.1 U	0.1 U	0.5 U	**0.246 J**	0.44 U	0.44 U	0.017 U	0.017 U
	PL2-JF01A		03/10/1995	2 U	2 U	—	—	1 U	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
	PL2-JF01A		09/27/1995	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
	PL2-JF01A		11/17/1995	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
	PL2-JF01A		03/01/1996	**2**	—	—	—	2 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
	PL2-JF01A		05/23/1996	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
	PL2-JF01A		08/26/1996	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
	PL2-JF01A		11/21/1996	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
	PL2-JF01AR	23'-27'	05/17/2001	**2**	0.5 U	—	—	1 U	1 U	—	—	**0.000917**	**0.000401 J**	**1.2**	**0.8**	50 U	50 U	0.5 U	0.5 U
	PL2-JF01AR	23'-27'	07/25/2001	0.5 U	0.5 U	—	—	1 U	1 U	—	—	**0.000544 J**	**0.000588 J**	**0.8**	**0.7**	50 U	50 U	0.5 U	0.5 U
	PL2-JF01AR	23'-27'	10/24/2001	**0.6**	**0.5**	—	—	1 U	1 U	—	—	**0.000334 J**	**0.000296 J**	**1.2**	**1.1**	50 U	50 U	0.5 U	0.5 U
	PL2-JF01AR	23'-27'	01/21/2002	0.5 U	**0.5**	—	—	1 U	1 U	—	—	**0.000227 J**	**0.000254 J**	**1.6**	**1.3**	50 U	50 U	0.5 U	2 U
	PL2-JF01AR	23'-27'	06/16/2003	0.5 U	**0.5**	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**0.8**	**0.8**	2 U	**0.9**	0.5 U	0.5 U
	PL2-JF01AR	23'-27'	09/02/2003	**0.9**	**0.9**	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1.2**	**0.9**	**0.8**	**0.8**	0.5 U	0.5 U
	PL2-JF01AR	23'-27'	12/08/2003	**0.7**	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**0.9**	**0.8**	50 U	50 U	0.5 U	0.5 U
	PL2-JF01AR	23'-27'	12/19/2003	**0.6**	—	—	—	1 U	—	—	—	0.025 U	—	**0.7**	—	50 U	—	0.5 U	—
	PL2-JF01AR	23'-27'	02/02/2004	**1**	**0.5**	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1.1**	**1.1**	50 U	50 U	0.5 U	0.5 U
	PL2-JF01AR	23'-27'	05/10/2004	0.5 U	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1.1**	**1**	50 U	50 U	0.5 U	0.5 U
	PL2-JF01AR	23.2'-27'	08/02/2004	0.5 U	0.5 U	—	—	1 U	—	—	—	0.025 U	0.025 U	**1.2**	**1**	50 U	50 U	0.2 U	0.2 U
	PL2-JF01AR	23.2'-27'	09/27/2004	0.5 U	—	—	—	1 U	—	—	—	0.025 U	—	**1.7**	—	50 U	—	0.2 U	—
	PL2-JF01AR	23'-27'	11/01/2004	0.7 U	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	—	—	50 U	50 U	0.2 U	0.2 U
	PL2-JF01AR	23'-27'	11/01/2004	—	—	—	—	—	—	—	—	—	—	**2.6**	**2.4**	—	—	—	—
	PL2-JF01AR	23'-27'	02/01/2005	**0.5**	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1**	**0.9**	50 U	50 U	0.2 U	0.2 U
	PL2-JF01AR	23.2'-27'	05/02/2005	**1.7**	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**0.5**	0.5 U	50 U	50 U	0.2 U	0.2 U
	PL2-JF01AR	23'-27'	08/01/2005	1.4 U	—	—	—	1 U	1 U	—	—	—	—	**1.4**	**1.2**	50 U	50 U	—	—
	PL2-JF01AR	23'-27'	08/01/2005	—	0.5 U	—	—	—	—	—	—	0.025 U	0.025 U	—	—	—	—	0.2 U	0.2 U
	PL2-JF01AR	23'-27'	10/31/2005	0.5 U	0.5 U	—	—	1 U	1 U	—	—	0.02 U	0.02 U	**0.8**	**0.7**	50 U	50 U	0.2 U	0.2 U
	PL2-JF01AR	23'-27'	02/06/2006	0.5 U	**1**	—	—	1 U	2 U	—	—	0.025 U	0.025 U	**0.9**	**2**	50 U	50 U	0.2 U	0.5 U
	PL2-JF01AR	23'-27'	05/01/2006	0.5 U	**0.7**	—	—	1 U	1 U	—	—	0.02 U	0.02 U	**1.4**	**1.3**	50 U	50 U	0.2 U	0.5 U
	PL2-JF01AR	23'-27'	07/31/2006	0.5 U	0.5 U	—	—	1 U	1 U	—	—	0.02 U	0.02 U	**1**	**1.1**	50 U	50 U	**0.2**	0.2 U
	PL2-JF01AR	23.2'-27'	08/23/2006	0.5 U	0.5 U	**16,300**	**16,700**	1 U	1 U	**1,190**	**1,200**	0.02 U	0.02 U	**1.2**	**1.6**	50 U	50 U	0.2 U	0.2 U
	PL2-JF01AR	23'-27'	11/06/2006	1 U	1 U	—	—	2 U	2 U	—	—	0.02 U	0.02 U	**1**	**1**	50 U	50 U	0.5 U	0.5 U
	PL2-JF01AR	23'-27'	02/01/2007	1 U	**2**	—	—	2 U	2 U	—	—	0.02 U	0.02 U	1 U	**5**	50 U	50 U	0.5 U	0.5 U
	PL2-JF01AR	23'-27'	05/02/2007	0.5 U	0.5 U	—	—	1 U	1 U	—	—	0.02 U	0.02 U	**0.8**	**1.2**	50 U	50 U	0.2 U	0.2 U
	PL2-JF01AR	23.2'-27'	08/01/2007	**0.7**	0.5 U	**16,700**	**17,700**	1 U	1 U	**1,230**	**1,310**	0.02 U	0.02 U	**1**	**1**	50 U	50 U	0.2 U	0.2 U
	PL2-JF01AR	23.2'-27'	11/12/2007	**2**	**0.5**	**31,200**	**32,900**	1 U	1 U	**2,050**	**2,070**	0.02 U	0.02 U	**1.1**	**1.3**	50 U	50 U	0.2 U	0.2 U
	PL2-JF01AR	23'-27'	01/30/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
	PL2-JF01AR	23'-27'	02/04/2008	0.8 U	0.5 U	—	—	1 U	1 U	—	—	0.02 U	0.02 U	—	—	—	—	0.2 U	0.2 U
	PL2-JF01AR	23.2'-27'	05/12/2008	0.5 U	0.5 U	**11,100**	**10,700**	1 U	1 U	**827**	**790**	0.02 U	0.02 U	**0.8**	**0.9**	50 U	50 U	0.2 U	0.2 U
	PL2-JF01AR	23'-27'	08/04/2008	0.5 U	0.5 U	—	—	1 U	1 U	—	—	0.02 U	0.02 U	—	—	—	—	0.2 U	0.2 U
	PL2-JF01AR	23'-27'	08/04/2008	1.1 U	0.5 U	—	—	1 U	1 U	—	—	0.02 U	0.02 U	—	—	—	—	0.2 U	0.2 U
	PL2-JF01AR	23.2'-27'	02/03/2009	**0.7 J**	0.5 U	**5,610**	**6,520**	1 U	1 U	**543**	**635**	0.02 U	0.02 U	**1 J**	**0.9**	50 U	50 U	0.2 U	0.2 U
	PL2-JF01AR	23'-27'	08/10/2009	**0.7**	0.5 U	—	—	1 U	1 U	—	—	0.02 U	0.02 U	—	—	—	—	0.2 U	0.2 U

Table B-17B: Metals in Groundwater

Sample Location	Sample Depths	Sample Date	(micrograms per liter)															
		CAS	Copper 7440-50-8		Iron 7439-89-6		Lead 7439-92-1		Manganese 7439-96-5		Mercury 7439-97-6		Nickel 7440-02-0		Selenium 7782-49-2		Silver 7440-22-4	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
PL2-JF01AR	23.2'-27'	02/08/2010	**0.7**	**0.5**	**23,700**	**24,600**	1 U	1 U	**2,670**	**2,650**	0.02 U	0.02 U	**1**	**2**	50 U	50 U	0.2 U	0.2 U
PL2-JF01AR	23.2'-27'	08/03/2010	0.5 U	0.5 U	**16,100**	**16,200**	1 U	1 U	**1,110**	**1,130**	0.02 U	0.02 U	**1.1 J**	**1.1**	50 U	50 U	0.2 U	0.2 U
PL2-JF01AR	23.2'-27'	01/31/2011	0.91 U	0.91 U	**27,600**	**27,300**	0.068 U	0.068 U	**1,630**	**1,870**	**0.025**	0.012 U	1.7 U	1.7 U	**0.137**	**0.086**	**0.01 J**	**0.009 J**
PL2-JF01AR	23.2'-27'	08/15/2011	**0.66 J**	**0.38 J**	**20,800**	**22,400**	**0.044**	0.023 U	**1,670**	**1,650**	**0.001**	0.001 U	0.69 U	**1.47**	**0.137**	**0.128**	**0.02**	**0.014**
PL2-JF01AR	23.2'-27'	02/06/2012	—	—	—	—	—	—	—	—	0.0016 U	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	02/06/2012	0.38 U	0.38 U	**10,300**	**9,470**	0.08 U	0.08 U	**985**	**855**	—	0.0016 U	0.5 U	0.5 U	0.27 U	0.27 U	0.098 U	0.098 U
PL2-JF01AR	23.2'-27'	08/06/2012	—	0.15 U	—	**13,300**	0.034 U	0.05 U	—	**799**	0.00016 U	—	0.35 U	0.35 U	0.18 U	**0.19 J**	0.1 U	0.1 U
PL2-JF01AR	23.2'-27'	08/06/2012	**0.22 J**	—	**13,100 J**	—	—	—	**782**	—	—	**0.000175 J**	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	01/07/2013	**1.9 J**	**1.5 J**	**8,250**	**8,140**	0.047 U	0.047 U	**680**	**738**	**0.000342 J**	0.0028 U	0.35 U	0.35 U	0.5 U	0.5 U	0.1 U	0.1 U
PL2-JF01AR	23.2'-27'	07/02/2013	—	—	**13,200**	**12,000**	—	—	**747**	**727**	—	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	07/02/2013	—	—	**13,400**	**12,600**	—	—	**741**	**791**	—	—	—	—	—	—	—	—
PL2-JF01AR	23.2'-27'	08/06/2013	0.4 U	0.4 U	**11,300**	**9,500**	0.085 U	0.085 U	**729**	**691**	0.0056 U	0.0056 U	0.65 U	0.65 U	0.5 U	0.5 U	0.11 U	0.11 U
PL2-JF01B	40'-50'	03/31/1995	2 U	2 U	—	—	1 U	1 U	—	—	0.1 U	0.1 U	10 U	10 U	50 U	50 U	3 U	3 U
PL2-JF01B	40'-50'	09/27/1995	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF01B	40'-50'	11/17/1995	2 U	—	—	—	**1**	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF01B	40'-50'	03/01/1996	2 U	—	—	—	4 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF01B	40'-50'	05/23/1996	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF01B	40'-50'	08/26/1996	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF01B	40'-50'	11/21/1996	2 U	—	—	—	**1**	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF01B	40'-50'	04/26/2001	**2.5 J**	**1.1**	—	—	1 U	1 U	—	—	0.0002 U	0.0002 U	**1.8**	**2.6**	50 U	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	07/25/2001	**3**	**1**	—	—	2 U	2 U	—	—	0.0002 U	0.0002 U	**7**	**2**	**50**	**60**	1 U	1 U
PL2-JF01B	40'-50'	10/24/2001	**1.5**	**1.2**	—	—	1 U	1 U	—	—	**0.000274 J**	0.0002 U	**3.4**	**2.2**	**50**	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	01/21/2002	**1**	**1**	—	—	2 U	2 U	—	—	0.0002 U	**0.000234 J**	**3**	**2**	**50**	50 U	**2**	1 U
PL2-JF01B	40'-50'	06/16/2003	**1.8**	**0.8**	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**3**	**1.6**	**2**	**3**	0.5 U	0.5 U
PL2-JF01B	40'-50'	09/02/2003	**1.7**	**1.5**	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**3.4**	**6.1**	**1.9**	**1.4**	0.5 U	0.5 U
PL2-JF01B	40'-50'	12/08/2003	1 U	1 U	—	—	2 U	2 U	—	—	0.025 U	0.025 U	**3**	**2**	50 U	50 U	1 U	1 U
PL2-JF01B	40'-50'	12/19/2003	**3**	—	—	—	2 U	—	—	—	0.025 U	—	**3**	—	50 U	—	1 U	—
PL2-JF01B	40'-50'	02/02/2004	**4.4**	**1.7**	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**3.7**	**2.4**	50 U	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	05/10/2004	**2**	1 U	—	—	2 U	2 U	—	—	**0.0365**	0.025 U	**4**	**4**	100 U	100 U	1 U	1 U
PL2-JF01B	40'-50'	09/27/2004	**1.2**	—	—	—	1 U	—	—	—	0.025 U	—	**15.3**	—	50 U	—	0.2 U	—
PL2-JF01B	40'-50'	11/01/2004	**2**	**2**	—	—	2 U	2 U	—	—	0.025 U	0.025 U	**6**	**5**	50 U	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	02/01/2005	**2**	**2**	—	—	2 U	2 U	—	—	0.025 U	0.025 U	**3**	**3**	50 U	50 U	0.5 U	0.4 U
PL2-JF01B	40'-50'	05/02/2005	**2**	**2**	—	—	2 U	2 U	—	—	0.025 U	0.025 U	**4**	**3**	100 U	100 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	08/01/2005	1.7 U	1.3 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**2.7**	**2.7**	50 U	50 U	0.2 U	0.2 U
PL2-JF01B	40'-50'	10/31/2005	2 U	2 U	—	—	5 U	5 U	—	—	0.02 U	0.02 U	2 U	2 U	50 U	50 U	1 U	1 U
PL2-JF01B	40'-50'	02/06/2006	**1.3**	**4**	—	—	1 U	5 U	—	—	0.025 U	0.025 U	**2.4**	2 U	50 U	250 U	0.2 U	1 U
PL2-JF01B	40'-50'	05/01/2006	**3**	**3**	—	—	2 U	2 U	—	—	0.02 U	0.02 U	**4**	**4**	50 U	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	07/31/2006	**2**	1 U	—	—	2 U	2 U	—	—	0.02 U	0.02 U	**3**	**3**	50 U	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	08/23/2006	0.9 U	1 U	**27,400**	**31,700**	1 U	1 U	**1,880**	**2,030**	0.02 U	0.02 U	**2.3**	**2.3**	50 U	50 U	0.2 U	0.2 U
PL2-JF01B	40'-50'	11/06/2006	**2**	**1**	—	—	2 U	2 U	—	—	0.02 U	0.02 U	**3**	**3**	50 U	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	02/01/2007	1 U	1 U	—	—	2 U	2 U	—	—	0.02 U	0.02 U	**2**	**2**	50 U	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	05/02/2007	1.3 U	1.1 U	—	—	1 U	1 U	—	—	0.02 U	0.02 U	**4.2**	**4.2**	50 U	50 U	0.2 U	0.2 U
PL2-JF01B	40'-50'	08/01/2007	**2**	1 U	**64,500**	**38,900**	2 U	2 U	**1,980**	**2,020**	0.02 U	0.02 U	**3**	**3**	50 U	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	11/12/2007	**2**	**2**	**37,500**	**37,500**	2 U	2 U	**1,820**	**1,930**	0.02 U	0.02 U	**4**	**4**	50 U	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	01/30/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
PL2-JF01B	40'-50'	02/04/2008	1.4 U	1 U	—	—	1 U	2 U	—	—	0.02 U	0.02 U	—	—	—	—	0.2 U	0.5 U
PL2-JF01B	40'-50'	05/12/2008	1 U	1 U	**39,800**	**37,900**	2 U	2 U	**1,980**	**2,050**	0.02 U	0.02 U	**2**	**3**	50 U	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	08/04/2008	1.5 U	1.3 U	—	—	1 U	1 U	—	—	0.02 U	0.02 U	—	—	—	—	0.2 U	0.2 U
PL2-JF01B	40'-50'	02/03/2009	1 U	1 U	**33,700**	**29,200**	2 U	2 U	**1,650**	**1,730**	0.02 U	0.02 U	**2 J**	**2**	50 U	50 U	0.5 U	0.5 U
PL2-JF01B	40'-50'	08/10/2009	**2**	**1**	—	—	2 U	2 U	—	—	0.02 U	0.02 U	—	—	—	—	0.5 U	0.5 U
PL2-JF01B	40'-50'	02/08/2010	**1**	1 U	—	—	2 U	2 U	—	—	0.02 U	0.02 U	—	—	—	—	0.5 U	0.5 U

Table B-17B: Metals in Groundwater

Sample Location	Sample Depths	Sample Date	(micrograms per liter)															
		CAS	Copper 7440-50-8		Iron 7439-89-6		Lead 7439-92-1		Manganese 7439-96-5		Mercury 7439-97-6		Nickel 7440-02-0		Selenium 7782-49-2		Silver 7440-22-4	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
PL2-JF01B	40'-50'	08/03/2010	**1.2**	1 U	**32,100**	**21,400**	1 U	1 U	**1,460**	**1,380**	0.02 U	0.02 U	**2.9 J**	**3**	50 U	50 U	0.2 U	0.2 U
PL2-JF01B	40'-50'	01/31/2011	0.91 U	0.91 U	**19,600**	**18,500**	0.068 U	0.068 U	**1,060**	**1,100**	0.012 U	0.012 U	**1.8**	**1.9**	**0.096**	0.065 U	**0.008 J**	**0.007 J**
PL2-JF01B	40'-50'	08/15/2011	**0.61 J**	**0.59 J**	**20,300**	**14,900**	**0.044**	0.023 U	**901**	**962**	0.001 U	0.001 U	**4.78**	**4.84**	**0.198**	**0.15**	**0.012**	**0.011**
PL2-JF01B	40'-50'	02/06/2012	0.38 U	0.38 U	**21,400**	**13,200**	**0.093 J**	0.08 U	**907**	**926**	0.0032 U	0.0032 U	**0.59 J**	0.5 U	0.27 U	0.27 U	0.098 U	0.098 U
PL2-JF01B	40'-50'	08/06/2012	0.33 U	**0.16 J**	**22,700**	**23,000**	**0.06 J**	0.034 U	**1,390**	**1,570**	0.0032 U	0.0032 U	0.35 U	0.35 U	**0.31 J**	**0.27 J**	0.1 U	0.1 U
PL2-JF01B	40'-50'	01/07/2013	**2 J**	0.4 U	**26,400**	**21,700**	**0.065 J**	0.047 U	**1,490**	**1,470**	0.0056 U	0.0056 U	**0.37 J**	0.35 U	0.5 U	0.5 U	0.1 U	0.1 U
PL2-JF01B	40'-50'	07/02/2013	—	—	**25,700**	**25,100**	—	—	**2,140**	**2,120**	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	07/02/2013	—	—	**28,900**	**30,100**	—	—	**2,590**	**2,990**	—	—	—	—	—	—	—	—
PL2-JF01B	40'-50'	08/06/2013	0.4 U	0.4 U	**22,600**	**15,000**	**0.13 J**	0.085 U	**1,710**	**1,690**	0.0056 U	0.0056 U	0.65 U	0.65 U	**0.54 J**	0.5 U	0.11 U	0.11 U
PL2-JF01C	74'-78'	05/17/2001	**30**	2 U	—	—	5 U	5 U	—	—	**0.0248**	0.0002 U	**15**	**5**	**110**	**120**	2 U	2 U
PL2-JF01C	74'-78'	07/25/2001	**23**	2 U	—	—	5 U	5 U	—	—	**0.0224 J**	0.0002 U	**13**	**6**	50 U	**70**	2 U	2 U
PL2-JF01C	74'-78'	10/24/2001	**14**	**3**	—	—	5 U	5 U	—	—	**0.0082**	**0.00045 J**	**9**	**6**	**90**	**90**	2 U	5 U
PL2-JF01C	74'-78'	01/21/2002	**15**	5 U	—	—	10 U	10 U	—	—	**0.0114**	0.0002 U	**10**	**7**	50 U	50 U	5 U	5 U
PL2-JF01C	74'-78'	06/16/2003	**36**	2 U	—	—	5 U	5 U	—	—	0.025 U	0.025 U	**16**	**5**	**12**	**12**	2 U	2 U
PL2-JF01C	74'-78'	12/08/2003	**28**	2 U	—	—	5 U	5 U	—	—	**0.0276**	0.025 U	**16**	**6**	100 U	100 U	2 U	2 U
PL2-JF01C	74'-78'	12/19/2003	**3**	—	—	—	5 U	—	—	—	0.025 U	—	**5**	—	100 U	—	2 U	—
PL2-JF01C	74'-78.5'	09/27/2004	**3**	—	—	—	5 U	—	—	—	0.025 U	—	**14**	—	100 U	—	1 U	—
PL2-JF01C	74'-78'	11/01/2004	**20**	**4**	—	—	**6**	5 U	—	—	0.025 U	0.025 U	**15**	**10**	—	—	1 U	1 U
PL2-JF01C	74'-78'	11/03/2004	—	—	—	—	—	—	—	—	—	—	—	—	0.113 U	—	—	—
PL2-JF01C	74'-78.5'	02/01/2005	**8**	2 U	—	—	10 U	5 U	—	—	0.025 U	0.025 U	**8**	**6**	200 U	200 U	2 U	1 U
PL2-JF01C	74'-78.5'	05/02/2005	**25**	2 U	—	—	**8 J**	5 U	—	—	0.025 U	0.025 U	**14**	**7**	**0.082**	0.04 U	1 U	1 U
PL2-JF01C	74'-78.5'	08/01/2005	**35**	2 U	—	—	**12**	5 U	**558**	**423**	0.025 U	0.025 U	**18**	**8**	**0.177**	**0.171**	0.5 U	0.5 U
PL2-JF01C	74'-78'	10/31/2005	**28**	2 U	—	—	**17**	5 U	—	—	0.02 U	0.02 U	**13**	**5**	**0.257**	**0.238**	1 U	1 U
PL2-JF01C	74'-78'	02/06/2006	**19.7**	1.3 U	—	—	**10**	1 U	—	—	0.025 U	0.025 U	**12.2**	**0.8**	**0.225**	**0.19**	0.2 U	0.2 U
PL2-JF01C	74'-78.5'	07/31/2006	**15**	2 U	**17,300**	**11,400**	5 U	5 U	**409**	**452**	0.02 U	0.02 U	**7**	**10**	**0.166**	**0.167**	1 U	1 U
PL2-JF01C	74'-78.5'	08/23/2006	**4**	**3**	100 U	100 U	5 U	5 U	**330**	**341**	0.02 U	0.02 U	**19**	**19**	100 U	100 U	1 U	1 U
PL2-JF01C	74'-78'	11/06/2006	**13**	**2**	—	—	2 U	2 U	—	—	0.02 U	0.02 U	**10**	**25**	**0.31**	**0.225**	**0.8**	0.5 U
PL2-JF01C	74'-78.5'	02/01/2007	**8**	**2**	**15,100**	**11,800**	2 U	2 U	**402**	**418**	0.02 U	0.02 U	**7**	**7**	**0.253**	**0.217**	0.5 U	0.5 U
PL2-JF01C	74'-78.5'	08/01/2007	**8**	2 U	**14,500**	**13,100**	5 U	5 U	**412**	**424**	0.02 U	0.02 U	**7**	**6**	**0.31**	**0.258**	1 U	1 U
PL2-JF01C	74'-78.5'	11/12/2007	**5**	2 U	**13,600**	**12,700**	5 U	5 U	**387**	**431**	0.02 U	0.02 U	**8**	**8**	**0.218**	**0.201**	1 U	1 U
PL2-JF01C	74'-78'	01/30/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
PL2-JF01C	74'-78.5'	05/12/2008	**11**	2 U	**16,300**	**12,100**	5 U	5 U	**439**	**404**	0.02 U	0.02 U	**11**	**7**	**0.266**	**0.245**	1 U	1 U
PL2-JF01C	74'-78'	08/04/2008	**9**	**2**	—	—	2 U	2 U	—	—	0.02 U	0.02 U	—	—	—	—	0.5 U	0.5 U
PL2-JF01C	74'-78'	08/10/2009	**7**	2 U	—	—	5 U	5 U	—	—	0.02 U	0.02 U	—	—	—	—	1 U	1 U
PL2-JF01C	74'-78.5'	08/03/2010	**9**	5 U	**15,300**	**12,100**	5 U	5 U	**437**	**416**	**0.0237**	0.02 U	**13 J**	**10**	**0.303**	**110**	1 U	1 U
PL2-JF01C	74'-78.5'	01/31/2011	**13.23**	0.91 U	**19,800**	**12,900**	**1.36**	0.068 U	**478**	**435**	0.012 U	0.012 U	**11.7**	**5.5**	**0.762**	**0.243**	**0.051 J**	**0.007 J**
PL2-JF01C	74'-78.5'	08/15/2011	**4.94 J**	**1 J**	**13,500**	**11,800**	**0.582**	**0.05**	**402**	**392**	**0.017**	**0.007**	**17**	**14.9**	**0.533**	**0.424**	**0.055**	**0.037**
PL2-JF01C	74'-78.5'	08/06/2012	20 U	20 U	**11,600**	**11,100**	10 U	10 U	**383**	**376**	0.025 U	0.01 U	20 U	20 U	2 U	20 U	5 U	5 U
PL2-JF01C	74'-78.5'	07/02/2013	—	—	**13,100**	**12,700**	—	—	**491**	**494**	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	07/02/2013	—	—	**12,700**	**13,200**	—	—	**469**	**516**	—	—	—	—	—	—	—	—
PL2-JF01C	74'-78.5'	08/06/2013	**4.1**	2 U	**12,000**	**11,100**	1 U	1 U	**411**	**399**	0.01 U	0.01 U	**2.2**	2 U	2 U	2 U	0.5 U	0.5 U
PL2-JF02A	8'-22.75'	09/27/1995	2 U	—	—	—	2 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF02A	8'-22.75'	11/17/1995	2 U	—	—	—	**1**	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF02A	8'-22.75'	03/01/1996	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF02A	8'-22.75'	05/23/1996	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF02A	8'-22.75'	08/26/1996	2 U	—	—	—	**1**	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF02A	8'-22.75'	11/21/1996	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	—	—	3 U	—
PL2-JF02A	8'-22.75'	11/21/1996	2 U	—	—	—	1 U	—	—	—	0.1 U	—	10 U	—	50 U	—	3 U	—
PL2-JF02A	8'-22.75'	04/26/2001	**4.6 J**	**0.6**	—	—	1 U	1 U	—	—	**0.00104**	**0.00103**	**2.6**	**0.7**	50 U	50 U	0.5 U	0.5 U
PL2-JF02A	8'-22.75'	07/25/2001	**0.7**	0.5 U	—	—	1 U	1 U	—	—	**0.000899 J**	**0.000964 J**	**0.8**	**0.7**	50 U	50 U	0.5 U	0.5 U
PL2-JF02A	8'-22.75'	10/24/2001	0.5 U	0.5 U	—	—	1 U	1 U	—	—	**0.000668**	**0.00064**	**1.2**	**1**	50 U	50 U	0.5 U	0.5 U

Table B-17B: Metals in Groundwater

Sample Location	Sample Depths	Sample Date	(micrograms per liter)															
		CAS	Copper 7440-50-8		Iron 7439-89-6		Lead 7439-92-1		Manganese 7439-96-5		Mercury 7439-97-6		Nickel 7440-02-0		Selenium 7782-49-2		Silver 7440-22-4	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
PL2-JF02A	8'-22.75'	01/21/2002	**1.7**	**1.5**	—	—	1 U	1 U	—	—	**0.00177**	**0.00084**	**3.2**	**2.4**	50 U	50 U	0.5 U	0.5 U
PL2-JF02A	8'-22.75'	06/16/2003	**0.9**	**1**	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1.4**	**1.2**	2 U	2 U	0.5 U	0.5 U
PL2-JF02A	8'-22.75'	09/02/2003	**1.1**	**0.8**	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1.4**	**2.1**	2 U	**2**	0.5 U	0.5 U
PL2-JF02A	8'-22.75'	12/08/2003	**0.9**	**0.6**	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**0.9**	**0.7**	50 U	50 U	0.5 U	0.5 U
PL2-JF02A	8'-22.75'	02/02/2004	**1.2**	**0.7**	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**2.3**	**0.8**	50 U	50 U	0.5 U	0.5 U
PL2-JF02A	8'-22.75'	05/10/2004	**1.3**	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1.5**	**1.2**	50 U	50 U	0.5 U	0.5 U
PL2-JF02A	8'-22.75'	11/01/2004	1 U	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1.1**	**0.9**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	02/01/2005	**1.1**	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**0.8**	**1**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	5.5'-23'	05/02/2005	**1.8**	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**0.9**	0.5 U	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	08/01/2005	**2**	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**1.4**	**1.2**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	10/31/2005	**0.7**	**0.6**	—	—	1 U	1 U	—	—	0.02 U	0.02 U	**0.5**	**0.8**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	02/06/2006	0.7 U	0.5 U	—	—	1 U	1 U	—	—	0.025 U	0.025 U	**0.7**	**1.1**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	05/01/2006	**1**	**0.6**	—	—	1 U	1 U	—	—	0.02 U	0.02 U	**0.5**	**0.6**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	07/31/2006	**1.8**	**0.6**	—	—	1 U	1 U	—	—	0.02 U	0.02 U	**0.8**	**0.5**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	5.5'-23'	08/23/2006	0.5 U	0.5 U	**6,720**	**6,050**	1 U	1 U	**444**	**436**	0.02 U	0.02 U	**1**	**0.8**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	11/06/2006	**1**	1 U	—	—	2 U	2 U	—	—	0.02 U	0.02 U	**1**	1 U	50 U	50 U	0.5 U	0.5 U
PL2-JF02A	8'-22.75'	02/01/2007	1 U	1 U	—	—	2 U	2 U	—	—	0.02 U	0.02 U	1 U	**4**	50 U	50 U	0.5 U	0.5 U
PL2-JF02A	8'-22.75'	05/02/2007	0.5 U	**1.3**	—	—	1 U	1 U	—	—	0.02 U	0.02 U	**0.7**	**5.6**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	5.5'-23'	08/01/2007	**1.6**	**1.5**	**5,200**	**4,640**	1 U	1 U	**418**	**426**	0.02 U	0.02 U	**0.7**	**5.5**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	5.5'-23'	11/12/2007	**2.5**	0.5 U	**5,960**	**5,050**	1 U	1 U	**453**	**434**	0.02 U	0.02 U	**1**	**1.7**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	01/30/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	—	—	—	—	10 U
PL2-JF02A	8'-22.75'	02/04/2008	0.5 U	**0.5**	—	—	1 U	1 U	—	—	0.02 U	0.02 U	—	—	—	—	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	08/04/2008	1.4 U	0.5 U	—	—	1 U	1 U	—	—	0.02 U	0.02 U	—	—	—	—	0.2 U	0.2 U
PL2-JF02A	5.5'-23'	02/03/2009	**2.9 J**	**1.2**	**15,300**	**4,760**	1 U	1 U	**695**	**404**	0.02 U	0.02 U	**2.3 J**	**2.1**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	08/10/2009	**1**	0.5 U	—	—	1 U	1 U	—	—	0.02 U	0.02 U	—	—	—	—	0.2 U	0.2 U
PL2-JF02A	8'-22.75'	02/08/2010	0.5 U	**0.8**	—	—	1 U	1 U	—	—	0.02 U	0.02 U	—	—	—	—	0.2 U	0.2 U
PL2-JF02A	5.5'-23'	08/03/2010	**1.2**	**0.5**	**7,580**	**6,220**	1 U	1 U	**499**	**468**	0.02 U	0.02 U	**1.8 J**	**1**	50 U	50 U	0.2 U	0.2 U
PL2-JF02A	5.5'-23'	01/31/2011	**2.42**	0.91 U	**13,300**	**6,980**	**0.434**	0.068 U	**529**	**511**	**0.032**	0.012 U	1.7 U	1.7 U	**0.099**	0.065 U	**0.007 J**	0.006 U
PL2-JF02A	5.5'-23'	08/15/2011	**0.5 J**	**0.3 J**	**7,450**	**7,180**	**0.047**	0.023 U	**462**	**490**	**0.003**	0.001 U	0.69 U	0.69 U	**0.121**	**0.077**	**0.004**	**0.007**
PL2-JF02A	5.5'-23'	02/06/2012	**0.82 J**	0.38 U	**8,970**	**5,350**	0.08 U	0.08 U	**352**	**381**	0.0016 U	0.0016 U	**0.82 J**	**0.51 J**	0.27 U	0.27 U	0.098 U	0.098 U
PL2-JF02A	5.5'-23'	08/06/2012	0.32 U	0.15 U	**5,460**	**4,640**	0.034 U	0.034 U	**338**	**349**	0.0016 U	0.0016 U	**0.52 J**	**0.6 J**	0.18 U	0.18 U	0.1 U	0.1 U
PL2-JF02A	5.5'-23'	01/07/2013	**5.6**	0.4 U	**18,700**	**7,670**	**1.3**	0.047 U	**626**	**482**	0.0056 U	0.0028 U	**1.5 J**	**0.8 J**	0.5 U	0.5 U	0.1 U	0.1 U
PL2-JF02A	5.5'-23'	08/06/2013	**0.41 J**	0.4 U	**10,900**	**6,540**	0.085 U	0.085 U	**416**	**405**	0.0028 U	0.0028 U	0.65 U	0.65 U	0.5 U	0.5 U	0.11 U	0.11 U
PL2-JF04A	8'-18'	08/23/2006	0.5 U	1.4 U	**53,800**	**52,400**	1 U	1 U	**1,030**	**1,010**	0.02 U	0.02 U	**2.9**	**1.3**	50 U	50 U	0.2 U	0.2 U
PL2-JF04A	8'-18'	01/30/2008	—	10 U	—	—	—	1 U	—	—	—	0.5 U	—	2 U	—	—	—	10 U

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-17C: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Thallium 7440-28-0 (micrograms per liter)		Vanadium 7440-62-2 (micrograms per liter)		Zinc 7440-66-6 (micrograms per liter)	
		CAS Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
Area 1								
* GP-08901	14'	09/14/1994	50 U	50 U	**62**	**10**	**38**	4 U
* GP-08902	14'	09/14/1994	50 U	50 U	**57**	**21**	**20**	4 U
* GP-08903	14'	09/14/1994	50 U	50 U	**53**	2 U	**36**	**4**
* GP-08904	14'	09/14/1994	50 U	50 U	**39**	**6**	**25**	**7**
* GP-08905	14'	09/13/1994	50 U	50 U	**35**	2 U	**30**	**6**
GP-08906	15'	11/29/1994	50 U	50 U	—	—	65 U	4 U
GP-08906	25'	11/29/1994	50 U	50 U	—	—	13 U	4 U
GP-08906	45'	11/29/1994	50 U	50 U	—	—	27 U	5 U
GP-08906	65'	11/29/1994	50 U	50 U	—	—	27 U	4 U
GP-08907	15'	11/28/1994	50 U	50 U	—	—	**188**	**9**
GP-08907	25'	11/28/1994	50 U	50 U	—	—	**109**	**6**
GP-08907	45'	11/28/1994	50 U	50 U	—	—	**39**	**4**
GP-08907	63'	11/29/1994	50 U	50 U	—	—	**430**	4 U
* GP-08908	14'	03/17/1995	50 U	50 U	**64**	2 U	**43**	**4**
* GP-08908	25'	03/17/1995	50 U	50 U	**43**	**7**	**34**	**7**
* GP-08908	45'	03/17/1995	50 U	50 U	**15**	**2**	**16**	4 U
GP-09106	14'	03/14/1995	50 U	50 U	**18**	**90**	4 U	**46**
GP-09106	25'	03/14/1995	50 U	50 U	**104**	**7**	**71**	4 U
GP-09106	45'	03/14/1995	50 U	50 U	**57**	2 U	**54**	4 U
MW-9	5'-20'	03/24/1992	—	—	—	—	**90**	—
MW-9	5'-20'	01/31/2008	—	—	—	—	—	50 U
MW-9		08/17/2017	—	—	—	—	4.82 U	**2.86 J**
MW-9		02/13/2018	—	—	—	—	13.2 U	4 U
* MW-23	6'-15.75'	11/20/1992	—	—	—	—	100 U	—
* MW-23	6'-15.75'	01/31/2008	—	—	—	—	—	50 U
* MW-23	6'-15.75'	02/26/2009	—	—	—	—	—	25 U
* MW-23		08/16/2017	—	—	—	—	**1.09 J**	**1.84 J**
* MW-23		02/12/2018	—	—	—	—	4 U	4 U
* MW-24	6'-19.75'	01/31/2008	—	—	—	—	—	50 U
* MW-24	6'-19.75'	02/26/2009	—	—	—	—	—	25 U
* MW-24		08/25/2017	—	—	—	—	**5.2**	**2.53 J**
* MW-24		02/09/2018	—	—	—	—	8 U	4 U
MW-25	6'-19.75'	01/31/2008	—	—	—	—	—	50 U
MW-25	6'-19.75'	02/26/2009	—	—	—	—	—	25 U
MW-25		08/23/2017	—	—	—	—	**2.86 J**	**1.07 J**
MW-25		02/09/2018	—	—	—	—	8 U	4 U
MW-30	5'-19.5'	01/31/2008	—	—	—	—	—	50 U
MW-30		08/18/2017	—	—	—	—	4 U	**0.879 J**
MW-30		02/09/2018	—	—	—	—	8 U	4 U
MW-30		02/09/2018	—	—	—	—	8 U	4 U
MW-48	5'-17'	02/26/2009	—	—	—	—	—	25 U
MW-48	5'-17'	05/20/2009	—	—	—	—	—	50 U
MW-48	5'-17'	08/26/2009	—	—	—	—	—	50 U
MW-48	5'-17'	12/10/2009	—	—	—	—	—	25 U
MW-48		08/16/2017	—	—	—	—	0.82 U	**1.34 J**
MW-48		02/09/2018	—	—	—	—	8 U	4 U
* MW-49	5'-17'	02/26/2009	—	—	—	—	—	25 U
* MW-49		02/09/2018	—	—	—	—	8 U	4 U

Table B-17C: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Thallium 7440-28-0 (micrograms per liter)		Vanadium 7440-62-2 (micrograms per liter)		Zinc 7440-66-6 (micrograms per liter)	
		CAS / Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
Area 2								
MW-7	10'-20'	02/01/2008	—	—	—	—	—	50 U
MW-7	10'-20'	02/25/2009	—	—	—	—	—	25 U
MW-7	10'-20'	05/20/2009	—	—	—	—	—	50 U
MW-7	10'-20'	08/25/2009	—	—	—	—	—	50 U
MW-7	10'-20'	12/10/2009	—	—	—	—	—	25 U
MW-7		08/17/2017	—	—	—	—	4 U	**2.23 J**
MW-7		02/07/2018	—	—	—	—	4 U	4 U
MW-14	5'-20'	02/01/2008	—	—	—	—	—	50 U
MW-14	5'-20'	02/27/2009	—	—	—	—	—	25 U
MW-14		08/25/2017	—	—	—	—	**4.04**	**1.98 J**
MW-14		02/12/2018	—	—	—	—	4 U	4 U
MW-15	5'-20'	01/31/2008	—	—	—	—	—	50 U
MW-15		08/23/2017	—	—	—	—	**1.76 J**	**1.52 J**
MW-15		02/12/2018	—	—	—	—	4 U	4 U
MW-32	5'-20'	02/01/2008	—	—	—	—	—	50 U
MW-32	5'-20'	02/27/2009	—	—	—	—	—	25 U
MW-32		08/24/2017	—	—	—	—	4 U	4 U
MW-32		02/07/2018	—	—	—	—	0.82 U	4 U
MW-34	5'-15'	02/01/2008	—	—	—	—	—	50 U
MW-36		02/01/2008	—	—	—	—	—	50 U
MW-36		02/27/2009	—	—	—	—	—	25 U
MW-36		08/21/2017	—	—	—	—	4 U	**1.75 J**
MW-36		02/08/2018	—	—	—	—	0.82 U	4 U
MW-37	10'-25'	02/25/2009	—	—	—	—	—	25 U
MW-37	10'-25'	05/20/2009	—	—	—	—	—	50 U
MW-37	10'-25'	08/27/2009	—	—	—	—	—	50 U
MW-37	10'-25'	12/11/2009	—	—	—	—	—	25 U
MW-37		08/17/2017	—	—	—	—	**2.69 J**	**2.35 J**
MW-37		02/09/2018	—	—	—	—	8 U	4 U
Area 3								
MW-3	4.5'-19.75'	01/31/2008	—	—	—	—	—	50 U
MW-4	4.75'-20'	01/31/2008	—	—	—	—	—	50 U
MW-4		02/07/2018	—	—	—	—	4 U	4 U
MW-8	5'-20'	01/31/2008	—	—	—	—	—	50 U
MW-8	5'-20'	02/26/2009	—	—	—	—	—	25 U
MW-8		02/07/2018	—	—	—	—	4 U	4 U
MW-8		02/07/2018	—	—	—	—	0.82 U	4 U
Area 4								
MW-10	5'-20'	02/01/2008	—	—	—	—	—	50 U
MW-11	5'-20'	03/24/1992	—	—	—	—	**78**	—
MW-11		08/24/2017	—	—	—	—	6.31 U	4 U
MW-11		02/13/2018	—	—	—	—	4 U	4 U
Area 5								
MW-40	10'-25'	02/27/2009	—	—	—	—	—	25 U
MW-40	10'-25'	05/20/2009	—	—	—	—	—	50 U
MW-40	10'-25'	08/26/2009	—	—	—	—	—	50 U
MW-40	10'-25'	12/18/2009	—	—	—	—	—	25 U

Table B-17C: Metals in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter) Thallium 7440-28-0		Vanadium 7440-62-2		Zinc 7440-66-6	
			CAS Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
	MW-40		02/08/2018	—	—	—	—	0.82 U	4 U
	MW-41	30'-40'	02/27/2009	—	—	—	—	—	25 U
	MW-41	30'-40'	05/20/2009	—	—	—	—	—	50 U
	MW-41	30'-40'	08/26/2009	—	—	—	—	—	50 U
	MW-41	30'-40'	12/18/2009	—	—	—	—	—	25 U
	MW-41		02/08/2018	—	—	—	—	20 U	4 U
Area 6									
	GP-06640	14'	03/15/1995	50 U	50 U	**25 J**	**20**	**116 J**	**106**
	GP-06640	25'	03/15/1995	50 U	50 U	**191**	2 U	**101**	**10 J**
	GP-06640	45'	03/15/1995	50 U	50 U	**67**	**2**	**173**	**68**
	GP-09104	15'	11/23/1994	**80**	50 U	**1,020**	**40**	**527**	4 U
	GP-09104	25'	11/23/1994	50 U	50 U	**179**	**9**	**123**	4 U
	GP-09104	45'	11/23/1994	50 U	50 U	**69**	2 U	**98**	4 U
	GP-09105	15'	11/23/1994	**60**	50 U	**865**	**29**	**509**	4 U
	GP-09105	25'	11/23/1994	50 U	50 U	**63**	**5**	**54**	4 U
	GP-09105	45'	11/23/1994	50 U	50 U	**34**	2 U	**92**	**7**
	GP-09107	14'	03/14/1995	50 U	50 U	**154**	**23**	**73**	4 U
	GP-09107	25'	03/14/1995	50 U	50 U	**149**	**10**	**108**	4 U
	GP-09107	45'	03/14/1995	50 U	50 U	**46**	2 U	**78**	4 U
	GP-09108	14'	03/14/1995	50 U	50 U	**143**	**36**	**66**	4 U
	GP-09108	25'	03/14/1995	50 U	50 U	**41**	**5**	**27**	4 U
	GP-09108	45'	03/14/1995	50 U	50 U	**16**	2 U	**16**	4 U
	GP-09109	14'	03/15/1995	50 U	50 U	**144**	**75**	**39 J**	**6 J**
	GP-09109	25'	03/15/1995	50 U	50 U	**109**	**9**	**79**	4 U
	GP-09109	45'	03/15/1995	50 U	50 U	**57**	2 U	**50 J**	**5 J**
	GP-09110	15'	09/19/1995	50 U	50 U	—	—	**10**	**5**
	GP-09110	25'	09/19/1995	50 U	50 U	—	—	**15**	4 U
	GP-09110	45'	09/19/1995	50 U	50 U	—	—	**7**	4 U
	GP-09111	15'	09/20/1995	50 U	50 U	—	—	66 U	4 U
	GP-09111	25'	09/20/1995	50 U	50 U	—	—	7 U	4 U
	GP-09111	45'	09/20/1995	50 U	50 U	—	—	4 U	4 U
	GP-09112	15'	09/19/1995	50 U	50 U	—	—	**59**	4 U
	GP-09112	25'	09/19/1995	50 U	50 U	—	—	**13**	4 U
	GP-09112	45'	09/19/1995	50 U	50 U	—	—	**29**	4 U
*	GP-09113	15'	09/19/1995	50 U	50 U	—	—	**44**	4 U
*	GP-09113	25'	09/19/1995	50 U	50 U	—	—	**6**	4 U
*	GP-09113	45'	09/19/1995	50 U	50 U	—	—	**6**	4 U
*	GP-09114	15'	09/20/1995	50 U	50 U	—	—	33 U	4 U
*	GP-09114	25'	09/20/1995	50 U	50 U	—	—	37 U	4 U
*	GP-09114	45'	09/20/1995	50 U	50 U	—	—	14 U	4 U
*	GP-09115	15'	09/19/1995	50 U	50 U	—	—	11 U	4 U
*	GP-09115	25'	09/19/1995	50 U	50 U	—	—	12 U	4 U
*	GP-09115	45'	09/19/1995	50 U	50 U	—	—	9 U	4 U
*	MW-6	10'-20'	01/30/2008	—	—	—	—	—	50 U
*	MW-6		08/21/2017	—	—	—	—	4.75 U	**1.11 J**
*	MW-6		02/13/2018	—	—	—	—	4 U	4 U
	MW-31	5'-20'	01/30/2008	—	—	—	—	—	50 U
	MW-31	5'-20'	02/26/2009	—	—	—	—	—	25 U
	MW-31		08/16/2017	—	—	—	—	**2.14 J**	**2.85 J**
	MW-31		02/06/2018	—	—	—	—	4 U	4 U

Table B-17C: Metals in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter) Thallium 7440-28-0		Vanadium 7440-62-2		Zinc 7440-66-6	
			CAS Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
	MW-45	30'-40'	02/26/2009	—	—	—	—	—	**39**
	MW-45	30'-40'	05/21/2009	—	—	—	—	—	50 U
	MW-45	30'-40'	08/27/2009	—	—	—	—	—	50 U
	MW-45	30'-40'	12/11/2009	—	—	—	—	—	25 U
	MW-45		08/16/2017	—	—	—	—	0.82 U	**1.37 J**
	MW-45		02/06/2018	—	—	—	—	0.82 U	4 U
	MW-46	5'-20'	02/26/2009	—	—	—	—	—	25 U
	MW-46	5'-20'	05/21/2009	—	—	—	—	—	50 U
	MW-46	5'-20'	08/27/2009	—	—	—	—	—	50 U
	MW-46	5'-20'	12/11/2009	—	—	—	—	—	25 U
	MW-46		02/06/2018	—	—	—	—	4 U	4 U
*	SB-13	12'-16'	02/06/2009	—	—	—	—	—	50 U
*	SB-14	12'-16'	02/06/2009	—	—	—	—	—	50 U
*	SB-15	12'-16'	02/06/2009	—	—	—	—	—	50 U
*	SB-16	12'-16'	02/06/2009	—	—	—	—	—	50 U
Area 7									
	MW-38	10'-25'	02/24/2009	—	—	—	—	—	25 U
	MW-38	10'-25'	05/20/2009	—	—	—	—	—	50 U
	MW-38	10'-25'	12/10/2009	—	—	—	—	—	25 U
	MW-38		08/16/2017	—	—	—	—	**1.41 J**	**2.54 J**
	MW-38		02/09/2018	—	—	—	—	8 U	4 U
*	MW-39	5'-20'	02/24/2009	—	—	—	—	—	25 U
*	MW-39	5'-20'	05/20/2009	—	—	—	—	—	50 U
*	MW-39	5'-20'	08/26/2009	—	—	—	—	—	50 U
*	MW-39	5'-20'	12/10/2009	—	—	—	—	—	25 U
*	MW-39		08/28/2017	—	—	—	—	**16.6 J**	8.2 U
*	MW-39		02/13/2018	—	—	—	—	**130**	4 U
*	MW-42	5'-20'	02/25/2009	—	—	—	—	—	25 U
*	MW-42	5'-20'	05/20/2009	—	—	—	—	—	50 U
*	MW-42	5'-20'	08/26/2009	—	—	—	—	—	50 U
*	MW-42	5'-20'	12/10/2009	—	—	—	—	—	25 U
*	MW-42		08/23/2017	—	—	—	—	**1.49 J**	**1.17 J**
*	MW-42		02/14/2018	—	—	—	—	4 U	4 U
*	MW-43	30'-40'	02/25/2009	—	—	—	—	—	25 U
*	MW-43	30'-40'	05/20/2009	—	—	—	—	—	50 U
*	MW-43	30'-40'	08/26/2009	—	—	—	—	—	50 U
*	MW-43	30'-40'	12/11/2009	—	—	—	—	—	25 U
*	MW-43		08/24/2017	—	—	—	—	4 U	4 U
*	MW-43		02/14/2018	—	—	—	—	4 U	4 U
*	MW-44	50'-60'	02/25/2009	—	—	—	—	—	25 U
*	MW-44	50'-60'	05/20/2009	—	—	—	—	—	50 U
*	MW-44	50'-60'	08/26/2009	—	—	—	—	—	50 U
*	MW-44	50'-60'	12/18/2009	—	—	—	—	—	25 U
*	MW-44		08/23/2017	—	—	—	—	**49**	**24**
*	MW-44		02/14/2018	—	—	—	—	4.1 U	4.1 U

Table B-17C: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Thallium 7440-28-0 (micrograms per liter)		Vanadium 7440-62-2 (micrograms per liter)		Zinc 7440-66-6 (micrograms per liter)	
		CAS Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
Area 8								
* GP-09113	15'	09/19/1995	50 U	50 U	—	—	**44**	4 U
* GP-09113	25'	09/19/1995	50 U	50 U	—	—	**6**	4 U
* GP-09113	45'	09/19/1995	50 U	50 U	—	—	**6**	4 U
* GP-09114	15'	09/20/1995	50 U	50 U	—	—	33 U	4 U
* GP-09114	25'	09/20/1995	50 U	50 U	—	—	37 U	4 U
* GP-09114	45'	09/20/1995	50 U	50 U	—	—	14 U	4 U
* GP-09115	15'	09/19/1995	50 U	50 U	—	—	11 U	4 U
* GP-09115	25'	09/19/1995	50 U	50 U	—	—	12 U	4 U
* GP-09115	45'	09/19/1995	50 U	50 U	—	—	9 U	4 U
* MW-6	10'-20'	01/30/2008	—	—	—	—	—	50 U
* MW-6		08/21/2017	—	—	—	—	4.75 U	**1.11 J**
* MW-6		02/13/2018	—	—	—	—	4 U	4 U
* MW-39	5'-20'	02/24/2009	—	—	—	—	—	25 U
* MW-39	5'-20'	05/20/2009	—	—	—	—	—	50 U
* MW-39	5'-20'	08/26/2009	—	—	—	—	—	50 U
* MW-39	5'-20'	12/10/2009	—	—	—	—	—	25 U
* MW-39		08/28/2017	—	—	—	—	**16.6 J**	8.2 U
* MW-39		02/13/2018	—	—	—	—	**130**	4 U
* MW-42	5'-20'	02/25/2009	—	—	—	—	—	25 U
* MW-42	5'-20'	05/20/2009	—	—	—	—	—	50 U
* MW-42	5'-20'	08/26/2009	—	—	—	—	—	50 U
* MW-42	5'-20'	12/10/2009	—	—	—	—	—	25 U
* MW-42		08/23/2017	—	—	—	—	**1.49 J**	**1.17 J**
* MW-42		02/14/2018	—	—	—	—	4 U	4 U
* MW-43	30'-40'	02/25/2009	—	—	—	—	—	25 U
* MW-43	30'-40'	05/20/2009	—	—	—	—	—	50 U
* MW-43	30'-40'	08/26/2009	—	—	—	—	—	50 U
* MW-43	30'-40'	12/11/2009	—	—	—	—	—	25 U
* MW-43		08/24/2017	—	—	—	—	4 U	4 U
* MW-43		02/14/2018	—	—	—	—	4 U	4 U
* MW-44	50'-60'	02/25/2009	—	—	—	—	—	25 U
* MW-44	50'-60'	05/20/2009	—	—	—	—	—	50 U
* MW-44	50'-60'	08/26/2009	—	—	—	—	—	50 U
* MW-44	50'-60'	12/18/2009	—	—	—	—	—	25 U
* MW-44		08/23/2017	—	—	—	—	**49**	**24**
* MW-44		02/14/2018	—	—	—	—	4.1 U	4.1 U
MW-47	5'-20'	02/25/2009	—	—	—	—	—	25 U
MW-47	5'-20'	05/21/2009	—	—	—	—	—	50 U
MW-47	5'-20'	08/27/2009	—	—	—	—	—	50 U
MW-47	5'-20'	12/11/2009	—	—	—	—	—	25 U
PL2-JF03A	8'-22.75'	09/28/1995	50 U	—	2 U	—	4 U	—
PL2-JF03A	8'-22.75'	11/17/1995	50 U	—	—	—	4 U	—
PL2-JF03A	8'-22.75'	03/01/1996	50 U	—	—	—	4 U	—
PL2-JF03A	8'-22.75'	05/23/1996	50 U	—	—	—	**7**	—
PL2-JF03A	8'-22.75'	08/26/1996	50 U	—	—	—	**14**	—
PL2-JF03A	8'-22.75'	11/21/1996	50 U	—	—	—	4 U	—
PL2-JF03A	8'-22.75'	04/26/2001	0.2 U	0.2 U	3 U	3 U	**14**	6 U
PL2-JF03A	8'-22.75'	07/25/2001	0.2 U	0.2 U	3 U	3 U	6 U	6 U
PL2-JF03A	8'-22.75'	10/24/2001	0.2 U	0.2 U	3 U	3 U	6 U	6 U

Table B-17C: Metals in Groundwater

	Sample Location	Sample Depth	Sample Date	(micrograms per liter) Thallium 7440-28-0		Vanadium 7440-62-2		Zinc 7440-66-6	
			CAS Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
	PL2-JF03A	8'-22.75'	01/21/2002	0.2 U	0.2 U	3 U	3 U	6 U	6 U
	PL2-JF03A	8'-22.75'	06/16/2003	0.2 U	0.2 U	3 U	3 U	6 U	6 U
	PL2-JF03A	8'-22.75'	12/08/2003	0.2 U	0.2 U	3 U	3 U	6 U	6 U
	PL2-JF03A	8'-22.75'	11/01/2004	0.2 U	0.2 U	3 U	3 U	6 U	6 U
	PL2-JF03A	6'-23'	05/02/2005	0.2 U	0.2 U	3 U	3 U	**9**	6 U
	PL2-JF03A	8'-22.75'	10/31/2005	0.2 U	0.2 U	3 U	3 U	6 U	6 U
*	SB-13	12'-16'	02/06/2009	—	—	—	—	—	50 U
*	SB-14	12'-16'	02/06/2009	—	—	—	—	—	50 U
*	SB-15	12'-16'	02/06/2009	—	—	—	—	—	50 U
*	SB-16	12'-16'	02/06/2009	—	—	—	—	—	50 U
	Seep-20		07/01/2004	—	—	—	—	**10.8**	**8.08**
Area 9									
	GP-06637	14'	03/15/1995	50 U	50 U	**184**	**27**	**421**	**91**
	GP-06637	25'	03/15/1995	50 U	50 U	**133**	**12**	**490**	**76**
	GP-06637	45'	03/15/1995	50 U	50 U	**39**	2 U	**85**	**59**
	GP-06638	14'	03/16/1995	50 U	50 U	**212**	**12**	**654**	**111**
	GP-06638	25'	03/16/1995	50 U	50 U	**213**	**18**	**2,440**	**293**
	GP-06638	45'	03/16/1995	50 U	50 U	**105**	**6**	**170**	**18 J**
	GP-06639	14'	03/16/1995	50 U	50 U	**177 J**	**54**	**240 J**	**40 J**
	GP-06639	25'	03/16/1995	50 U	50 U	**201**	**5**	**137**	**6 J**
	GP-06639	45'	03/16/1995	50 U	50 U	**32**	**5**	**29 J**	4 U
*	GP-08901	14'	09/14/1994	50 U	50 U	**62**	**10**	**38**	4 U
*	GP-08902	14'	09/14/1994	50 U	50 U	**57**	**21**	**20**	4 U
*	GP-08903	14'	09/14/1994	50 U	50 U	**53**	2 U	**36**	**4**
*	GP-08904	14'	09/14/1994	50 U	50 U	**39**	**6**	**25**	**7**
*	GP-08905	14'	09/13/1994	50 U	50 U	**35**	2 U	**30**	**6**
*	GP-08908	14'	03/17/1995	50 U	50 U	**64**	2 U	**43**	**4**
*	GP-08908	25'	03/17/1995	50 U	50 U	**43**	**7**	**34**	**7**
*	GP-08908	45'	03/17/1995	50 U	50 U	**15**	**2**	**16**	4 U
	GP-09101	15'	09/12/1994	50 U	50 U	**41**	**29**	9 U	**7**
	GP-09102	14'	09/08/1994	50 U	50 U	**15**	**10**	**7**	**5**
	GP-09103	14'	09/08/1994	50 U	50 U	**27**	**3**	**20**	**4**
	MW-5	10'-20'	01/30/2008	—	—	—	—	—	50 U
	MW-5	10'-20'	02/24/2009	—	—	—	—	—	25 U
	MW-5	10'-20'	05/21/2009	—	—	—	—	—	50 U
	MW-5	10'-20'	08/27/2009	—	—	—	—	—	50 U
	MW-5	10'-20'	12/11/2009	—	—	—	—	—	25 U
*	MW-23	6'-15.75'	11/20/1992	—	—	—	—	100 U	—
*	MW-23	6'-15.75'	01/31/2008	—	—	—	—	—	50 U
*	MW-23	6'-15.75'	02/26/2009	—	—	—	—	—	25 U
*	MW-23		08/16/2017	—	—	—	—	**1.09 J**	**1.84 J**
*	MW-23		02/12/2018	—	—	—	—	4 U	4 U
*	MW-24	6'-19.75'	01/31/2008	—	—	—	—	—	50 U
*	MW-24	6'-19.75'	02/26/2009	—	—	—	—	—	25 U
*	MW-24		08/25/2017	—	—	—	—	**5.2**	**2.53 J**
*	MW-24		02/09/2018	—	—	—	—	8 U	4 U
*	MW-49	5'-17'	02/26/2009	—	—	—	—	—	25 U
*	MW-49		02/09/2018	—	—	—	—	8 U	4 U
	MW-50		08/16/2017	—	—	—	—	**0.952 J**	**1.04 J**
	MW-50		02/14/2018	—	—	—	—	0.82 U	4 U

Table B-17C: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter) Thallium 7440-28-0		Vanadium 7440-62-2		Zinc 7440-66-6	
		CAS / Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-51		08/25/2017	—	—	—	—	0.82 U	**4.12**
MW-51		02/14/2018	—	—	—	—	0.82 U	4 U
MW-52		08/18/2017	—	—	—	—	4 U	**1.12 J**
MW-52		08/18/2017	—	—	—	—	0.82 U	0.82 U
MW-52		02/06/2018	—	—	—	—	0.82 U	4 U
PL2-JF01A		03/10/1995	50 U	50 U	**18**	**17**	4 U	**5**
PL2-JF01A		09/27/1995	50 U	—	**21**	—	4 U	—
PL2-JF01A		11/17/1995	50 U	—	—	—	4 U	—
PL2-JF01A		03/01/1996	50 U	—	—	—	4 U	—
PL2-JF01A		05/23/1996	50 U	—	—	—	4 U	—
PL2-JF01A		08/26/1996	50 U	—	—	—	**4**	—
PL2-JF01A		11/21/1996	50 U	—	—	—	4 U	—
PL2-JF01AR	23'-27'	05/17/2001	0.2 U	0.2 U	**19**	**21**	**8**	6 U
PL2-JF01AR	23'-27'	07/25/2001	0.2 U	0.2 U	**20**	**21**	6 U	6 U
PL2-JF01AR	23'-27'	10/24/2001	0.2 U	0.2 U	**11**	**12**	6 U	6 U
PL2-JF01AR	23'-27'	01/21/2002	0.2 U	0.2 U	**10**	**11**	6 U	6 U
PL2-JF01AR	23'-27'	06/16/2003	0.2 U	0.2 U	**13**	**13**	6 U	6 U
PL2-JF01AR	23'-27'	09/02/2003	0.2 U	0.2 U	**13**	**13**	**4**	**6**
PL2-JF01AR	23'-27'	12/08/2003	0.2 U	0.2 U	**16**	**15**	6 U	6 U
PL2-JF01AR	23'-27'	12/19/2003	50 U	—	**16**	—	6 U	—
PL2-JF01AR	23'-27'	02/02/2004	0.2 U	0.2 U	**14**	**14**	6 U	6 U
PL2-JF01AR	23'-27'	05/10/2004	0.2 U	0.2 U	**19**	**19**	6 U	6 U
PL2-JF01AR	23.2'-27'	08/02/2004	0.2 U	0.2 U	**13**	**15**	6 U	6 U
PL2-JF01AR	23.2'-27'	09/27/2004	50 U	—	**14**	—	6 U	—
PL2-JF01AR	23'-27'	11/01/2004	—	—	**14**	**13**	—	—
PL2-JF01AR	23'-27'	11/01/2004	0.2 U	0.2 U	—	—	6 U	6 U
PL2-JF01AR	23'-27'	02/01/2005	0.2 U	0.2 U	**17**	**15**	**7**	6 U
PL2-JF01AR	23.2'-27'	05/02/2005	0.2 U	0.2 U	**12**	**12**	**7**	6 U
PL2-JF01AR	23'-27'	08/01/2005	0.2 U	0.2 U	**12**	**11**	6 U	6 U
PL2-JF01AR	23'-27'	10/31/2005	0.2 U	0.2 U	**15**	**14**	6 U	6 U
PL2-JF01AR	23'-27'	02/06/2006	0.2 U	0.5 U	**11**	**4**	6 U	6 U
PL2-JF01AR	23'-27'	05/01/2006	0.2 U	0.2 U	**9**	**9**	6 U	6 U
PL2-JF01AR	23'-27'	07/31/2006	0.2 U	0.2 U	**9**	**9**	6 U	6 U
PL2-JF01AR	23.2'-27'	08/23/2006	0.2 U	0.2 U	**11**	**10**	6 U	6 U
PL2-JF01AR	23'-27'	11/06/2006	0.5 U	0.5 U	**10**	**9**	**12**	6 U
PL2-JF01AR	23'-27'	02/01/2007	0.5 U	0.5 U	**9**	**8**	**10**	10 U
PL2-JF01AR	23'-27'	05/02/2007	0.2 U	0.2 U	**11**	**10**	**10**	10 U
PL2-JF01AR	23.2'-27'	08/01/2007	0.2 U	0.2 U	**8**	**8**	10 U	10 U
PL2-JF01AR	23.2'-27'	11/12/2007	0.2 U	0.2 U	**8**	**8**	10 U	10 U
PL2-JF01AR	23'-27'	01/30/2008	—	—	—	—	—	50 U
PL2-JF01AR	23'-27'	02/04/2008	—	—	—	—	10 U	10 U
PL2-JF01AR	23.2'-27'	05/12/2008	0.2 U	0.2 U	**13**	**12**	10 U	10 U
PL2-JF01AR	23'-27'	08/04/2008	—	—	—	—	10 U	10 U
PL2-JF01AR	23'-27'	08/04/2008	—	—	—	—	10 U	10 U
PL2-JF01AR	23.2'-27'	02/03/2009	0.2 U	0.2 U	**20**	**19**	10 U	10 U
PL2-JF01AR	23'-27'	08/10/2009	—	—	—	—	10 U	10 U
PL2-JF01AR	23.2'-27'	02/08/2010	0.2 U	0.2 U	**11**	**11**	**10**	10 U
PL2-JF01AR	23.2'-27'	08/03/2010	0.2 U	0.2 U	**10**	**11**	10 U	10 U
PL2-JF01AR	23.2'-27'	01/31/2011	0.02 U	0.02 U	**13.337 J**	**14.124 J**	3.1 U	**5.9**
PL2-JF01AR	23.2'-27'	08/15/2011	**0.002**	0.001 U	**8.81**	**8.94**	**2.7**	**2.65**
PL2-JF01AR	23.2'-27'	02/06/2012	0.15 U	0.15 U	**13.8**	**12**	4 U	4 U

Table B-17C: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter) Thallium 7440-28-0		Vanadium 7440-62-2		Zinc 7440-66-6	
		CAS						
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
PL2-JF01AR	23.2'-27'	08/06/2012	—	—	**7.6**	—	**3.4 J**	—
PL2-JF01AR	23.2'-27'	08/06/2012	0.15 U	0.15 U	—	**8**	—	4.1 U
PL2-JF01AR	23.2'-27'	01/07/2013	0.15 U	0.15 U	**9.7 J**	**10.6 J**	**1.9 J**	1.5 U
PL2-JF01AR	23.2'-27'	08/06/2013	0.15 U	0.15 U	**14.1**	**11.1**	**1.9 J**	1.5 U
PL2-JF01B	40'-50'	03/31/1995	50 U	50 U	**8**	**7**	4 U	4 U
PL2-JF01B	40'-50'	09/27/1995	50 U	—	**7**	—	4 U	—
PL2-JF01B	40'-50'	11/17/1995	50 U	—	—	—	4 U	—
PL2-JF01B	40'-50'	03/01/1996	50 U	—	—	—	4 U	—
PL2-JF01B	40'-50'	05/23/1996	50 U	—	—	—	4 U	—
PL2-JF01B	40'-50'	08/26/1996	50 U	—	—	—	4 U	—
PL2-JF01B	40'-50'	11/21/1996	50 U	—	—	—	4 U	—
PL2-JF01B	40'-50'	04/26/2001	0.2 U	0.2 U	**4**	**4**	6 U	6 U
PL2-JF01B	40'-50'	07/25/2001	0.5 U	0.4 U	**3**	**6**	6 U	6 U
PL2-JF01B	40'-50'	10/24/2001	0.2 U	0.2 U	3 U	3 U	6 U	6 U
PL2-JF01B	40'-50'	01/21/2002	0.5 U	0.4 U	**4**	**3**	6 U	6 U
PL2-JF01B	40'-50'	06/16/2003	0.2 U	0.2 U	**4**	3 U	6 U	6 U
PL2-JF01B	40'-50'	09/02/2003	0.2 U	0.2 U	3 U	3 U	4 U	4 U
PL2-JF01B	40'-50'	12/08/2003	0.5 U	0.5 U	**3**	3 U	6 U	6 U
PL2-JF01B	40'-50'	12/19/2003	50 U	—	**5**	—	**16**	—
PL2-JF01B	40'-50'	02/02/2004	0.2 U	0.2 U	**9**	3 U	**9**	6 U
PL2-JF01B	40'-50'	05/10/2004	0.5 U	0.5 U	6 U	6 U	10 U	10 U
PL2-JF01B	40'-50'	09/27/2004	50 U	—	**3**	—	6 U	—
PL2-JF01B	40'-50'	11/01/2004	0.5 U	0.5 U	**4**	4 U	6 U	**6**
PL2-JF01B	40'-50'	02/01/2005	0.5 U	0.4 U	3 U	3 U	6 U	6 U
PL2-JF01B	40'-50'	05/02/2005	0.5 U	0.5 U	6 U	6 U	10 U	10 U
PL2-JF01B	40'-50'	08/01/2005	0.2 U	0.2 U	**5**	**4**	6 U	6 U
PL2-JF01B	40'-50'	10/31/2005	1 U	1 U	**4**	**3**	6 U	6 U
PL2-JF01B	40'-50'	02/06/2006	0.2 U	1 U	**5**	20 U	6 U	30 U
PL2-JF01B	40'-50'	05/01/2006	0.5 U	0.5 U	**6**	**4**	6 U	6 U
PL2-JF01B	40'-50'	07/31/2006	0.5 U	0.5 U	**5**	**3**	6 U	6 U
PL2-JF01B	40'-50'	08/23/2006	0.2 U	0.2 U	**4**	**5**	6 U	6 U
PL2-JF01B	40'-50'	11/06/2006	0.5 U	0.5 U	3 U	3 U	6 U	6 U
PL2-JF01B	40'-50'	02/01/2007	0.5 U	0.5 U	**5**	**3**	10 U	10 U
PL2-JF01B	40'-50'	05/02/2007	0.2 U	0.2 U	**4**	3 U	10 U	10 U
PL2-JF01B	40'-50'	08/01/2007	0.5 U	0.5 U	**7**	3 U	10 U	10 U
PL2-JF01B	40'-50'	11/12/2007	0.5 U	0.5 U	**4**	**3**	10 U	10 U
PL2-JF01B	40'-50'	01/30/2008	—	—	—	—	—	50 U
PL2-JF01B	40'-50'	02/04/2008	—	—	—	—	10 U	10 U
PL2-JF01B	40'-50'	05/12/2008	0.5 U	0.5 U	**3**	3 U	10 U	10 U
PL2-JF01B	40'-50'	08/04/2008	—	—	—	—	10 U	10 U
PL2-JF01B	40'-50'	02/03/2009	0.5 U	0.5 U	**4**	3 U	10 U	10 U
PL2-JF01B	40'-50'	08/10/2009	—	—	—	—	10 U	10 U
PL2-JF01B	40'-50'	02/08/2010	—	—	—	—	10 U	10 U
PL2-JF01B	40'-50'	08/03/2010	0.2 U	0.2 U	**6**	**3**	10 U	10 U
PL2-JF01B	40'-50'	01/31/2011	0.02 U	0.02 U	**4.795 J**	**4.748 J**	3.1 U	**3.6**
PL2-JF01B	40'-50'	08/15/2011	**0.002**	0.001 U	**4.76**	**2.88**	**2.9**	**3.56**
PL2-JF01B	40'-50'	02/06/2012	0.15 U	0.15 U	**7**	**3.4**	4 U	4 U
PL2-JF01B	40'-50'	08/06/2012	0.15 U	0.15 U	**2.7**	**2.3**	5.4 U	**3.7 J**
PL2-JF01B	40'-50'	01/07/2013	0.15 U	0.15 U	**4.1 J**	**2 J**	**2.7 J**	1.5 U
PL2-JF01B	40'-50'	08/06/2013	0.15 U	0.15 U	**4**	**1.5**	**2.4 J**	1.5 U
PL2-JF01C	74'-78'	05/17/2001	1 U	1 U	**34**	6 U	**130**	**60**

Table B-17C: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter) Thallium 7440-28-0		Vanadium 7440-62-2		Zinc 7440-66-6	
		CAS Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
PL2-JF01C	74'-78'	07/25/2001	1 U	1 U	**22**	**5**	**48**	6 U
PL2-JF01C	74'-78'	10/24/2001	1 U	1 U	**17**	**3**	**18**	6 U
PL2-JF01C	74'-78'	01/21/2002	2 U	2 U	**18**	**4**	**20**	6 U
PL2-JF01C	74'-78'	06/16/2003	1 U	1 U	**37**	6 U	**50**	10 U
PL2-JF01C	74'-78'	12/08/2003	1 U	1 U	**39**	**6**	**30**	10 U
PL2-JF01C	74'-78'	12/19/2003	100 U	—	6 U	—	**20**	—
PL2-JF01C	74'-78.5'	09/27/2004	100 U	—	6 U	—	10 U	—
PL2-JF01C	74'-78'	11/01/2004	5 U	5 U	**24**	**7**	**10**	10 U
PL2-JF01C	74'-78.5'	02/01/2005	2 U	1 U	20 U	20 U	30 U	30 U
PL2-JF01C	74'-78.5'	05/02/2005	5 U	5 U	**40**	30 U	60 U	60 U
PL2-JF01C	74'-78.5'	08/01/2005	5 U	5 U	**42**	**7**	**40**	10 U
PL2-JF01C	74'-78'	10/31/2005	5 U	5 U	**38**	**6**	**30**	10 U
PL2-JF01C	74'-78'	02/06/2006	**2 J**	1 U	**30**	**8**	30 U	**7**
PL2-JF01C	74'-78.5'	07/31/2006	1 U	1 U	20 U	**18**	10 U	30 U
PL2-JF01C	74'-78.5'	08/23/2006	1 U	1 U	6 U	6 U	10 U	10 U
PL2-JF01C	74'-78'	11/06/2006	0.5 U	0.5 U	**16**	6 U	10 U	10 U
PL2-JF01C	74'-78.5'	02/01/2007	0.5 U	0.5 U	**9**	6 U	10 U	**20**
PL2-JF01C	74'-78.5'	08/01/2007	1 U	1 U	**9**	20 U	20 U	50 U
PL2-JF01C	74'-78.5'	11/12/2007	1 U	1 U	**10**	20 U	20 U	50 U
PL2-JF01C	74'-78'	01/30/2008	—	—	—	—	—	50 U
PL2-JF01C	74'-78.5'	05/12/2008	1 U	1 U	**10**	6 U	20 U	20 U
PL2-JF01C	74'-78'	08/04/2008	—	—	—	—	20 U	50 U
PL2-JF01C	74'-78'	08/10/2009	—	—	—	—	20 U	20 U
PL2-JF01C	74'-78.5'	08/03/2010	1 U	1 U	**12**	6 U	20 U	20 U
PL2-JF01C	74'-78.5'	01/31/2011	**0.042**	0.02 U	**19.434 J**	**3.472 J**	**19.6**	3.1 U
PL2-JF01C	74'-78.5'	08/15/2011	**0.014**	0.001 U	**7.72**	**2.73**	**11**	**6.37**
PL2-JF01C	74'-78.5'	08/06/2012	5 U	5 U	**4.5**	**2.7**	150 U	150 U
PL2-JF01C	74'-78.5'	08/06/2013	0.5 U	0.5 U	**5.4**	**2.7**	15 U	15 U
PL2-JF02A	8'-22.75'	09/27/1995	50 U	—	**10**	—	4 U	—
PL2-JF02A	8'-22.75'	11/17/1995	50 U	—	—	—	4 U	—
PL2-JF02A	8'-22.75'	03/01/1996	50 U	—	—	—	4 U	—
PL2-JF02A	8'-22.75'	05/23/1996	50 U	—	—	—	4 U	—
PL2-JF02A	8'-22.75'	08/26/1996	50 U	—	—	—	**5**	—
PL2-JF02A	8'-22.75'	11/21/1996	50 U	—	—	—	4 U	—
PL2-JF02A	8'-22.75'	11/21/1996	50 U	—	—	—	4 U	—
PL2-JF02A	8'-22.75'	04/26/2001	0.2 U	0.2 U	**7**	**5**	6 U	6 U
PL2-JF02A	8'-22.75'	07/25/2001	0.2 U	0.2 U	**6**	**6**	6 U	6 U
PL2-JF02A	8'-22.75'	10/24/2001	0.2 U	0.2 U	**4**	**5**	6 U	6 U
PL2-JF02A	8'-22.75'	01/21/2002	0.2 U	0.2 U	**13**	**13**	6 U	6 U
PL2-JF02A	8'-22.75'	06/16/2003	0.2 U	0.2 U	**5**	**4**	6 U	**9**
PL2-JF02A	8'-22.75'	09/02/2003	0.2 U	0.2 U	**6**	**4**	4 U	4 U
PL2-JF02A	8'-22.75'	12/08/2003	0.2 U	0.2 U	**8**	**7**	6 U	6 U
PL2-JF02A	8'-22.75'	02/02/2004	0.2 U	0.2 U	**9**	**8**	6 U	6 U
PL2-JF02A	8'-22.75'	05/10/2004	0.2 U	0.2 U	**8**	**7**	6 U	6 U
PL2-JF02A	5.5'-23'	08/02/2004	—	—	—	—	6 U	—
PL2-JF02A	8'-22.75'	11/01/2004	0.2 U	0.2 U	**10**	**7**	6 U	6 U
PL2-JF02A	8'-22.75'	02/01/2005	0.2 U	0.2 U	**10**	**6**	**7**	6 U
PL2-JF02A	5.5'-23'	05/02/2005	0.2 U	0.2 U	**7**	**7**	**10**	6 U
PL2-JF02A	8'-22.75'	08/01/2005	0.2 U	0.2 U	**6**	**6**	6 U	6 U
PL2-JF02A	8'-22.75'	10/31/2005	0.2 U	0.2 U	**7**	**6**	**10**	6 U
PL2-JF02A	8'-22.75'	02/06/2006	0.2 U	0.2 U	**11**	**10**	6 U	**7**

Table B-17C: Metals in Groundwater

Sample Location	Sample Depth	Sample Date	(micrograms per liter) Thallium 7440-28-0		Vanadium 7440-62-2		Zinc 7440-66-6	
		CAS						
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
PL2-JF02A	8'-22.75'	05/01/2006	0.2 U	—	**7**	**6**	6 U	6 U
PL2-JF02A	8'-22.75'	07/31/2006	0.2 U	0.2 U	**7**	**5**	**12**	6 U
PL2-JF02A	5.5'-23'	08/23/2006	0.2 U	0.2 U	**6**	**6**	**7**	**6**
PL2-JF02A	8'-22.75'	11/06/2006	0.5 U	0.5 U	**6**	**5**	**12**	6 U
PL2-JF02A	8'-22.75'	02/01/2007	0.5 U	0.5 U	**5**	**5**	10 U	10 U
PL2-JF02A	8'-22.75'	05/02/2007	0.2 U	0.2 U	**5**	**5**	10 U	10 U
PL2-JF02A	5.5'-23'	08/01/2007	0.2 U	0.2 U	**5**	**5**	10 U	10 U
PL2-JF02A	5.5'-23'	11/12/2007	0.2 U	0.2 U	**6**	**5**	10 U	10 U
PL2-JF02A	8'-22.75'	01/30/2008	—	—	—	—	—	50 U
PL2-JF02A	8'-22.75'	02/04/2008	—	—	—	—	10 U	10 U
PL2-JF02A	8'-22.75'	08/04/2008	—	—	—	—	10 U	10 U
PL2-JF02A	5.5'-23'	02/03/2009	0.2 U	0.2 U	**9**	**5**	10 U	10 U
PL2-JF02A	8'-22.75'	08/10/2009	—	—	—	—	10 U	10 U
PL2-JF02A	8'-22.75'	02/08/2010	—	—	—	—	10 U	10 U
PL2-JF02A	5.5'-23'	08/03/2010	0.2 U	0.2 U	**5**	**5**	10 U	10 U
PL2-JF02A	5.5'-23'	01/31/2011	0.02 U	0.02 U	**7.12 J**	**5.094 J**	**6.1**	3.1 U
PL2-JF02A	5.5'-23'	08/15/2011	**0.007**	**0.001**	**4.56**	**4.49**	**2.5**	**1.99**
PL2-JF02A	5.5'-23'	02/06/2012	0.15 U	0.15 U	**6.6**	**4.9**	**4.2 J**	4 U
PL2-JF02A	5.5'-23'	08/06/2012	0.15 U	0.15 U	**10**	**8.2**	1.5 U	1.7 U
PL2-JF02A	5.5'-23'	01/07/2013	0.15 U	0.15 U	**10.5 J**	**5.1 J**	**9.2 J**	**2.1 J**
PL2-JF02A	5.5'-23'	08/06/2013	0.15 U	0.15 U	**4.9**	**3.3**	**3.1 J**	**2.8 J**
PL2-JF04A	8'-18'	08/23/2006	0.2 U	0.2 U	**13**	**7**	**7**	6 U
PL2-JF04A	8'-18'	01/30/2008	—	—	—	—	—	50 U

NOTES:
Bold text indicates a detected result.
* Sample appears twice in table because it is located within overlapping Site areas.
J = estimated concentration, detected greater than the method detection limit and less than the reporting limit.
R = result rejected due to quality control failures.
U = analyte not detected above the indicated reporting limit.
CAS = Chemical Abstracts Service Number

Table B-18: LNAPL Analyses

		Sample Location	MW-21	MW-27	MW-27	MW-35	MW-35
		Sample Date	08/18/17	08/18/17	02/05/18	08/21/17	02/05/18
		Sample ID	MW-21-08182017	MW-27-08182017	MW-27-02052018	MW-35-08212017	MW-35-02052018
Units	Analyte						
Physical Parameters							
kg/L	Density		**0.920**	**0.937**	---	**0.924**	---
g/mL	Specific Gravity		**0.921**	**0.938**	---	**0.924**	---
cSt	Kinematic Viscosity		**31.5**	**31.9**	---	**20.4**	---
oF	Ignitability (Closed Cup)		---	**210**	---	**210**	---
PCB Congeners							
mg/kg	DECACB		---	<0.00125	---	**0.00244**	---
	Total diCB		---	<0.00171	---	**0.00487**	---
	Total heptaCB		---	**0.0215**	---	**0.0522**	---
	Total hexaCB		---	**0.0219**	---	**0.0623**	---
	Total monoCB		---	**0.00212**	---	**0.0162**	---
	Total nonaCB		---	**0.0342**	---	**0.0361**	---
	Total octaCB		---	**0.0575**	---	**0.0613**	---
	TOTAL PCBS (SMS)		---	**0.190**	---	**0.415**	---
	Total pentaCB		---	**0.0340**	---	**0.0954**	---
	Total tetraCB			**0.0129**	---	**0.0461**	---
	Total triCB		---	**0.00582**	---	**0.0383**	---
PCB Aroclors							
mg/kg	Total PCB Aroclors		<1000	<1000	---	<1.00	---
Petroleum Hydrocarbons							
mg/kg	Diesel Range Organics		---	<2000	---	**50,000**	---
	Oil Range Organics		---	**58,500**	---	**124,000**	---
	Gasoline Range Organics		---	<500	---	<50.0	---
Volatile Organic Compounds							
mg/kg	1,1,1,2-Tetrachloroethane		---	<0.500	---	<0.500	---
	1,1,1-Trichloroethane		---	<0.500	---	<0.500	---
	1,1,2,2-Tetrachloroethane		---	<0.500	---	**1.38**	---
	1,1,2-Trichloroethane		---	<0.500	---	**26.1**	---
	1,1-Dichloroethane		---	<0.500	---	<0.500	---
	1,1-Dichloroethene		---	<0.500	---	<0.500	---
	1,1-Dichloropropene		---	<0.500	---	<0.500	---
	1,2,3-Trichlorobenzene		---	<0.500	---	<0.500	---
	1,2,3-Trichloropropane		---	<0.500	---	<0.500	---
	1,2,4-Trichlorobenzene		---	<0.500	---	<0.500	---
	1,2,4-Trimethylbenzene		---	<0.500	---	**248**	---
	1,2-Dibromo-3-chloropropane		---	<5.00	---	<5.00	---
	1,2-Dibromoethane		---	<0.500	---	<0.500	---
	1,2-Dichlorobenzene		---	<0.500	---	<0.500	---
	1,2-Dichloroethane		---	<0.500	---	<0.500	---
	1,2-Dichloropropane		---	<0.500	---	<0.500	---
	1,3,5-Trimethylbenzene		---	**1,200**	---	**36.8**	---
	1,3-Dichlorobenzene		---	<0.500	---	<0.500	---
	1,3-Dichloropropane		---	<0.500	---	<0.500	---
	1,4-Dichlorobenzene		---	<0.500	---	<0.500	---

Table B-18: LNAPL Analyses

	Sample Location	MW-21	MW-27	MW-27	MW-35	MW-35
	Sample Date	08/18/17	08/18/17	02/05/18	08/21/17	02/05/18
	2,2-Dichloropropane	---	<0.500	---	<0.500	---
	2-Butanone (MEK)	---	<5.00	---	**15.3**	---
	2-Chlorotoluene	---	<0.500	---	<0.500	---
	2-Hexanone	---	<5.00	---	**14.3**	---
	4-Chlorotoluene	---	<0.500	---	<0.500	---
	Acetone	---	<5.00	---	<5.00	---
	Acrolein	---	<5.00	---	<5.00	---
	Acrylonitrile	---	<5.00	---	<5.00	---
	Benzene	---	<0.500	---	<0.500	---
	Bromobenzene	---	<0.500	---	<0.500	---
	Bromochloromethane	---	<0.500	---	<0.500	---
	Bromodichloromethane	---	<0.500	---	<0.500	---
	Bromoform	---	<0.500	---	<0.500	---
	Bromomethane	---	<0.500	---	<0.500	---
	Carbon tetrachloride	---	<0.500	---	<0.500	---
	Chlorobenzene	---	<0.500	---	<0.500	---
	Chloroethane	---	<0.500	---	<0.500	---
	Chloroform	---	<0.500	---	<0.500	---
	Chloromethane	---	<0.500	---	<0.500	---
	cis-1,2-Dichloroethene	---	<0.500	---	<0.500	---
	cis-1,3-Dichloropropene	---	<0.500	---	<0.500	---
	Dibromochloromethane	---	<0.500	---	<0.500	---
	Dibromomethane	---	<0.500	---	<0.500	---
	Dichlorodifluoromethane	---	<0.500	---	<0.500	---
	Ethylbenzene	---	<0.500	---	**3.78**	---
	Hexachlorobutadiene	---	<0.500	---	<0.500	---
	Isopropylbenzene	---	<0.500	---	**2.23**	---
	Methyl isobutyl ketone	---	<5.00	---	**21.3**	---
	Methylene chloride	---	<2.50	---	<2.50	---
	Methyl-t-butyl ether (MTBE)	---	<0.500	---	<0.500	---
	Naphthalene	---	<0.500	---	**6.91**	---
	n-Butylbenzene	---	**0.530**	---	**7.51**	---
	n-Propylbenzene	---	<0.500	---	**39.9**	---
	p-Isopropyltoluene	---	**0.730**	---	**66.5**	---
	sec-Butylbenzene	---	<0.500	---	**36.8**	---
	Styrene	---	<0.500	---	<0.500	---
	tert-Butylbenzene	---	**0.840**	---	**59.6**	---
	Tetrachloroethene	---	<0.500	---	<0.500	---
	Toluene	---	**0.580**	---	**1.5**	---
	Total Xylenes	---	<1.00	---	**40.5**	---
	trans-1,2-Dichloroethene	---	<0.500	---	<0.500	---
	trans-1,3-Dichloropropene	---	<0.500	---	<0.500	---
	Trichloroethene	---	<0.500	---	<0.500	---
	Trichlorofluoromethane	---	<0.500	---	<0.500	---
	Vinyl acetate	---	<5.00	---	<5.00	---
	Vinyl chloride	---	<0.500	---	<0.500	---
Semivolatile Organic Compounds						
mg/kg	1,2,4-Trichlorobenzene	---	<500	---	<500	---
	1,2-Dichlorobenzene	---	<500	---	<500	---
	1,3-Dichlorobenzene	---	<500	---	<500	---
	1,4-Dichlorobenzene	---	<500	---	<500	---

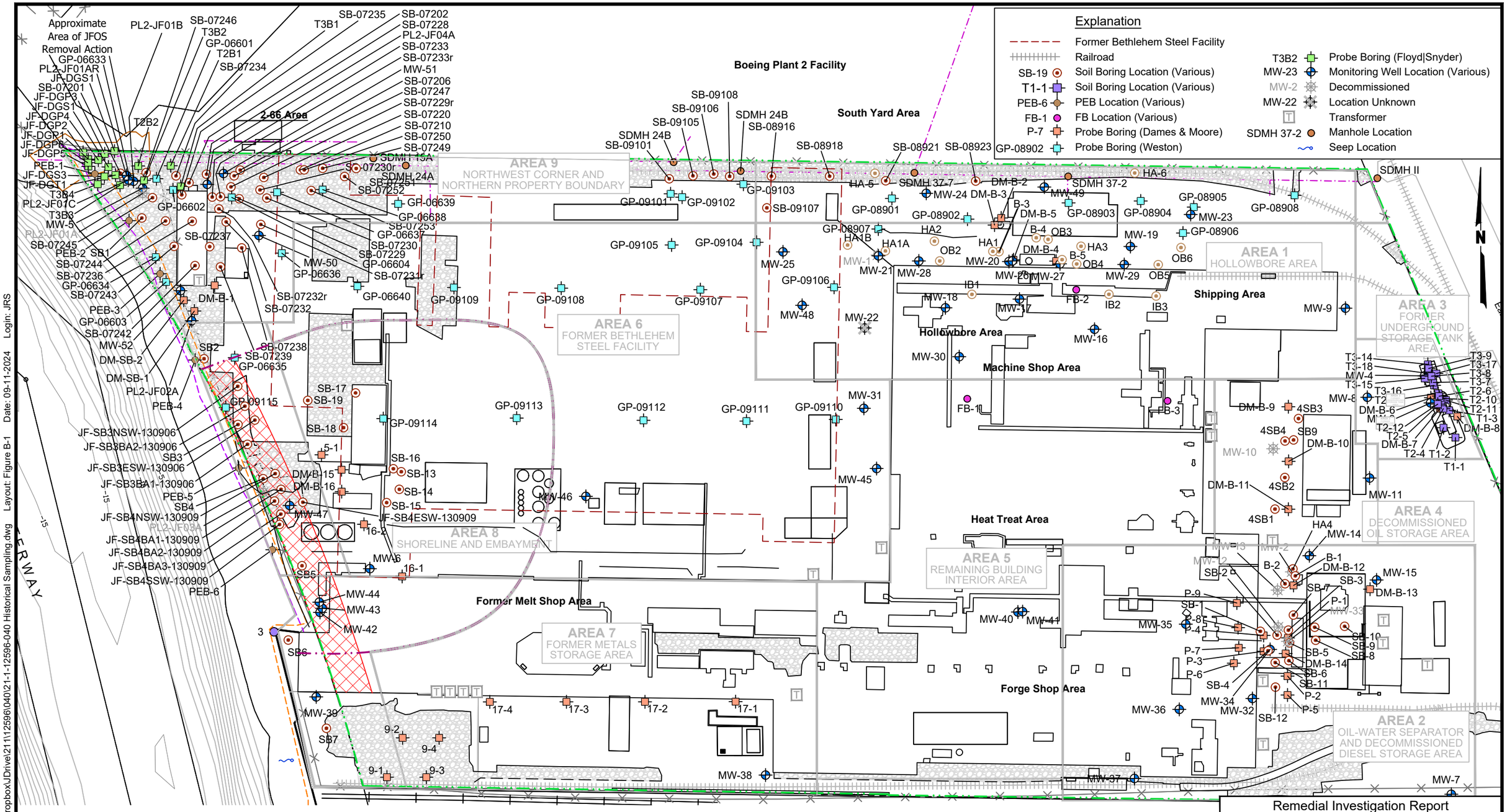
Table B-18: LNAPL Analyses

Sample Location	MW-21	MW-27	MW-27	MW-35	MW-35
Sample Date	08/18/17	08/18/17	02/05/18	08/21/17	02/05/18
2,3,4,6-Tetrachlorophenol	---	<500	---	<500	---
2,4,5-Trichlorophenol	---	<500	---	<500	---
2,4,6-Trichlorophenol	---	<500	---	<500	---
2,4-Dichlorophenol	---	<500	---	<500	---
2,4-Dimethylphenol	---	<500	---	<500	---
2,4-Dinitrophenol	---	<5000	---	<5000	---
2,4-Dinitrotoluene	---	<500	---	<500	---
2,6-Dinitrotoluene	---	<500	---	<500	---
2-Chloronaphthalene	---	<500	---	<500	---
2-Chlorophenol	---	<500	---	<500	---
2-Methylnaphthalene	---	<500	---	**660**	---
2-Methylphenol	---	<500	---	<500	---
2-Nitroaniline	---	<500	---	<500	---
2-Nitrophenol	---	<500	---	<500	---
3,3'-Dichlorobenzidine	---	<10000	---	<10000	---
3-Nitroaniline	---	<500	---	<500	---
4,6-Dinitro-2-Methylphenol	---	<5000	---	<5000	---
4-Bromophenyl phenyl ether	---	<500	---	<500	---
4-Chloro-3-methylphenol	---	<500	---	<500	---
4-Chloroaniline	---	<500	---	<500	---
4-Chlorophenyl-phenylether	---	<500	---	<500	---
4-Methylphenol	---	<500	---	<500	---
4-Nitroaniline	---	<500	---	<500	---
4-Nitrophenol	---	<500	---	<500	---
Acenaphthene	---	<200	---	**1,800**	---
Acenaphthylene	---	<200	---	<500	---
Aniline	---	<5000	---	<5000	---
Anthracene	---	<200	---	**570**	---
Azobenzene	---	<500	---	<500	---
Benzidine	---	<10000	---	<10000	---
Benzo(a)anthracene	---	<200	---	<200	---
Benzo(a)pyrene	---	<200	---	<500	---
Benzo(b)fluoranthene	---	<200	---	<500	---
Benzo(g,h,i)perylene	---	<200	---	<500	---
Benzo(k)fluoranthene	---	<200	---	<500	---
Benzoic acid	---	<5000	---	<5000	---
Benzyl alcohol	---	<500	---	<500	---
BIPHENYL	---	<500	---	<500	---
Bis (2-Chloroethoxy) Methane	---	<500	---	<500	---
Bis (2-Chloroethyl) Ether	---	<500	---	<500	---
Bis (2-chloroisopropyl) ether	---	<500	---	<500	---
Bis (2-ethylhexyl) phthalate	---	<500	---	<500	---
Butylbenzylphthalate	---	<500	---	<500	---
Carbazole	---	<500	---	<500	---
Chrysene	---	<200	---	<200	---
Dibenzo(a,h)anthracene	---	<200	---	<200	---
Dibenzofuran	---	<500	---	**1,100**	---
Dibenzothiophene	---	<500	---	<500	---
Diethylphthalate	---	<500	---	<500	---
Dimethylphthalate	---	<500	---	<500	---
Di-n-butylphthalate	---	<500	---	<500	---
Di-n-octyl phthalate	---	<500	---	<500	---

Table B-18: LNAPL Analyses

	Sample Location	MW-21	MW-27	MW-27	MW-35	MW-35
	Sample Date	08/18/17	08/18/17	02/05/18	08/21/17	02/05/18
	Fluoranthene	---	<200	---	**700**	---
	Fluorene	---	<200	---	**560**	---
	Hexachlorobenzene	---	<500	---	<500	---
	Hexachlorobutadiene	---	<500	---	<500	---
	Hexachlorocylopentadiene	---	<500	---	<500	---
	Hexachloroethane	---	<500	---	<500	---
	Indeno(1,2,3-cd)pyrene	---	<200	---	<200	---
	Isophorone	---	<500	---	<500	---
	Naphthalene	---	<200	---	**370**	---
	Nitrobenzene	---	<500	---	<500	---
	N-Nitrosodimethylamine	---	<500	---	<500	---
	n-Nitrosodi-n-propylamine	---	<500	---	<500	---
	N-Nitrosodiphenylamine	---	<500	---	<500	---
	Pentachlorophenol	---	<500	---	<500	---
	Phenanthrene	---	<200	---	**1,600**	---
	Phenol	---	<500	---	<500	---
	Pyrene	---	<200	---	<200	---
	Pyridine	---	<5000	---	<5000	---
Metals						
mg/kg	Arsenic	---	---	**1.70**	---	<1.00
	Cadmium	---	---	<1.00	---	<1.00
	Chromium	---	---	<1.00	---	<1.00
	Cobalt	---	---	**6.20**	---	<1.00
	Copper	---	---	<1.00	---	<1.00
	Lead	---	---	<1.00	---	**2.90**
	Manganese	---	---	<1.00	---	**1.30**
	Nickel	---	---	<1.00	---	<1.00
	Selenium	---	---	<1.00	---	<1.00
	Silver	---	---	<1.00	---	<1.00
	Zinc	---	---	<1.00	---	<1.00

Notes:
Analyzed by ASTM D-1298, ASTM D-287, ASTM D-445, ASTM D-93, EPA Method 1668C, SW846 8082A, NWTPH-D, NWTPH-G, and SW846 8260C.
< indicates that the analyte was not detected above the indicated reporting limit.
cSt = centistokes; g/mL = grams per milliliter; kg/L = kilograms per liter; mg/kg = milligrams per kilogram; oF = degrees Fahrenheit; PCBs = polychlorinated biphenyls



NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017, and *ACAD-J1743.05 09-01-2020.dwg* dated August 12, 2020, prepared by True North.
2. Top of Shoreline Bank adapted from Professional Land Surveyors, Inc., 11078 TOPO.dwg, dated January 24, 2012.
3. Due to sampling density in the northwest corner, not all sampling locations can be displayed All sampling locations are displayed on Figure 15G

EXPLANATION

- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Embayment
- Approximate Property Boundary
- Approximate Bulkhead Location
- Unpaved Surface

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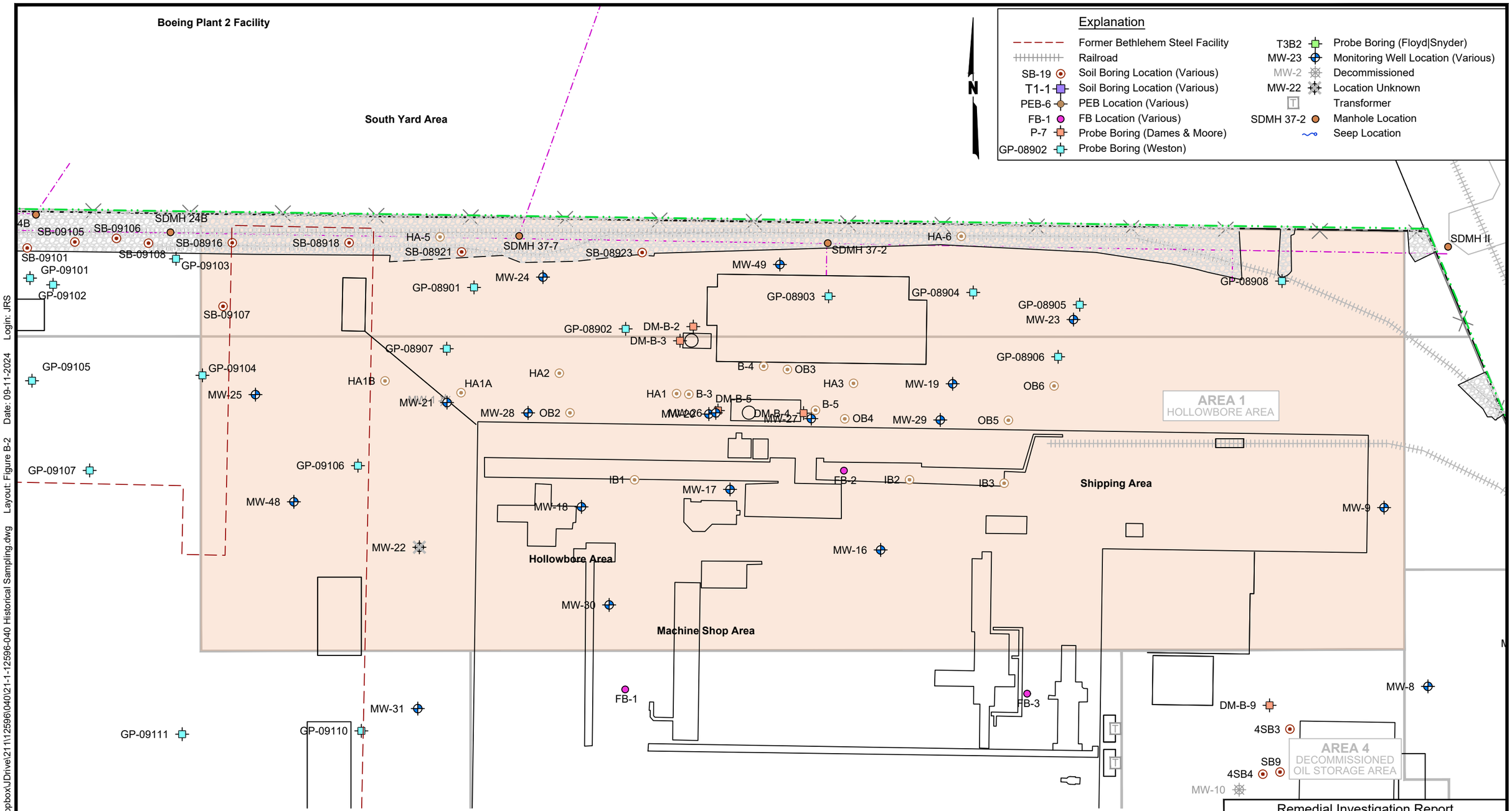
HISTORICAL SAMPLING LOCATIONS

September 2024 21-1-12596-040

SHANNON & WILSON, INC. FIG. B-1

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Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 Historical Sampling.dwg Layout: Figure B-1 Date: 09-11-2024 Login: JRS



NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg,* prepared by PES Environmental, Inc. dated July 2017.
2. Top of Shoreline Bank adapted from Professional Land Surveyors, Inc., 11078 TOPO.dwg, dated January 24, 2012.

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HISTORICAL SAMPLING LOCATIONS - AREA 1

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SHANNON & WILSON, INC. FIG. B-2

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Explanation

- Railroad
- SB-19 — Soil Boring Location (Various)
- T1-1 — Soil Boring Location (Various)
- PEB-6 — PEB Location (Various)
- FB-1 — FB Location (Various)
- P-7 — Probe Boring (Dames & Moore)
- GP-08902 — Probe Boring (Weston)
- T3B2 — Probe Boring (Floyd|Snyder)
- MW-23 — Monitoring Well Location (Various)
- MW-2 — Decommissioned
- MW-22 — Location Unknown
- T — Transformer
- SDMH 37-2 — Manhole Location
- Approximate Property Boundary
- Unpaved Surface

Hollowbore Area

Machine Shop Area

Heat Treat Area

Forge Shop Area

AREA 4
DECOMMISSIONED
OIL STORAGE AREA

AREA 5
REMAINING BUILDING
INTERIOR AREA

AREA 2
OIL-WATER SEPARATOR AND DECOMMISSIONED
DIESEL STORAGE AREA

MW-16, MW-30, MW-45, MW-40, MW-41, MW-35, MW-36, MW-37, MW-38, MW-8, MW-10, MW-11, MW-14, MW-15, MW-2, MW-13, MW-12, MW-33, MW-34, MW-32, MW-4, MW-3

FB-1, FB-3

DM-B-9, DM-B-10, DM-B-11, DM-B-12, DM-B-13, DM-B-14, DM-B-6, DM-B-7, DM-B-8

4SB3, 4SB4, SB9, 4SB2, 4SB1, HA4, B-2, B-1, P-9, P-8, P-4, P-7, P-6, P-1, P-2, P-5, SB-7, SB-1, SB-2, SB-3, SB-4, SB-5, SB-6, SB-8, SB-9, SB-10, SB-11, SB-12

T3-14, T3-9, T3-18, T3-17, T3-15, T3-16, T3-8, T3-7, T2-13, T2-6, T2-10, T2-11, T2-12, T2-5, T2-4, T1-3, T1-2, T1-1

Oil/Water Separator

N

0 50 100

Scale in Feet

NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.
2. Top of Shoreline Bank adapted from Professional Land Surveyors, Inc., 11078 TOPO.dwg, dated January 24, 2012.

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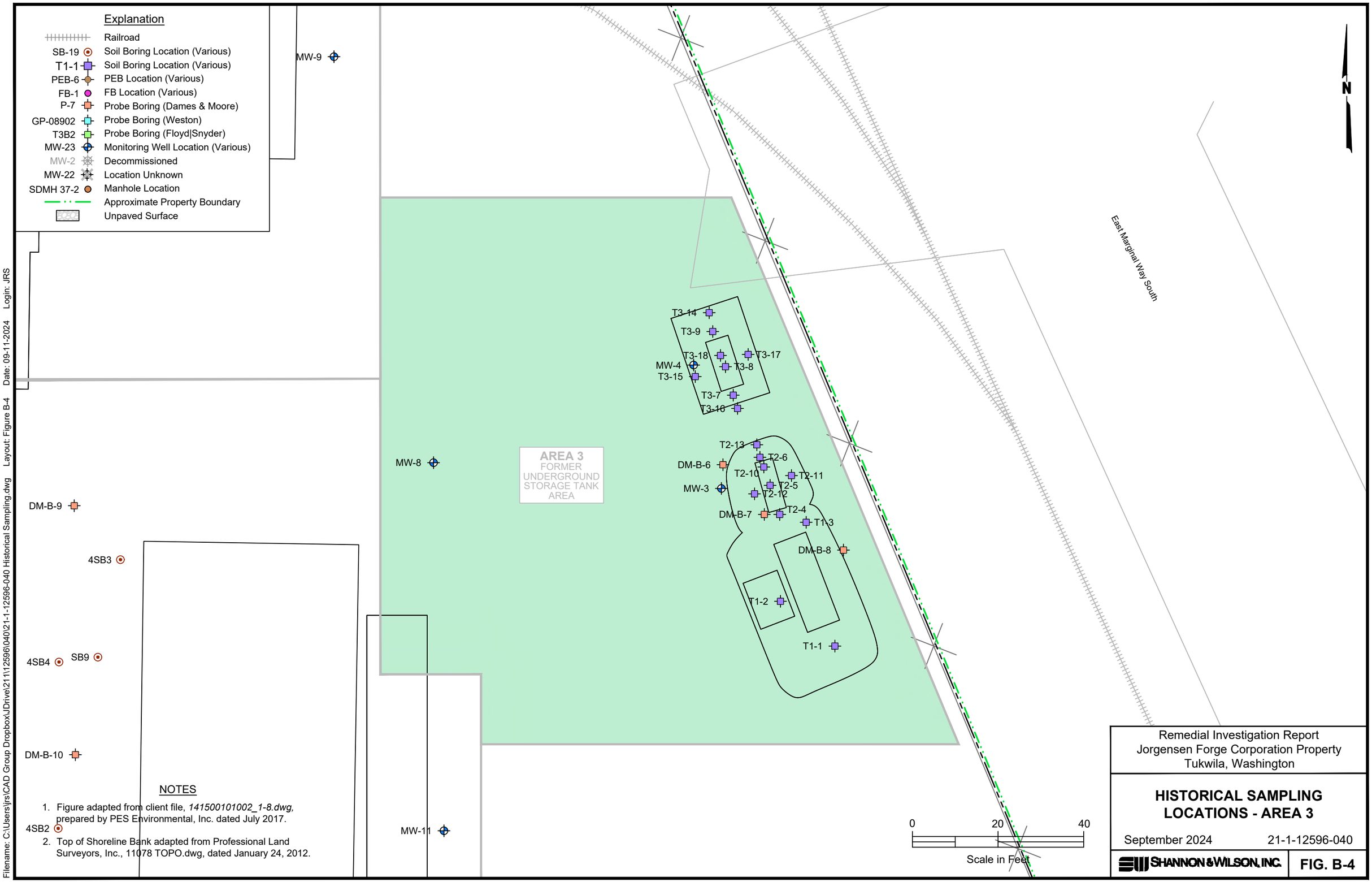
HISTORICAL SAMPLING LOCATIONS - AREAS 2, 4, & 5

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. B-3**

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Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 Historical Sampling.dwg Layout: Figure B-3 Date: 09-11-2024 Login: JRS



NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.
2. Top of Shoreline Bank adapted from Professional Land Surveyors, Inc., 11078 TOPO.dwg, dated January 24, 2012.

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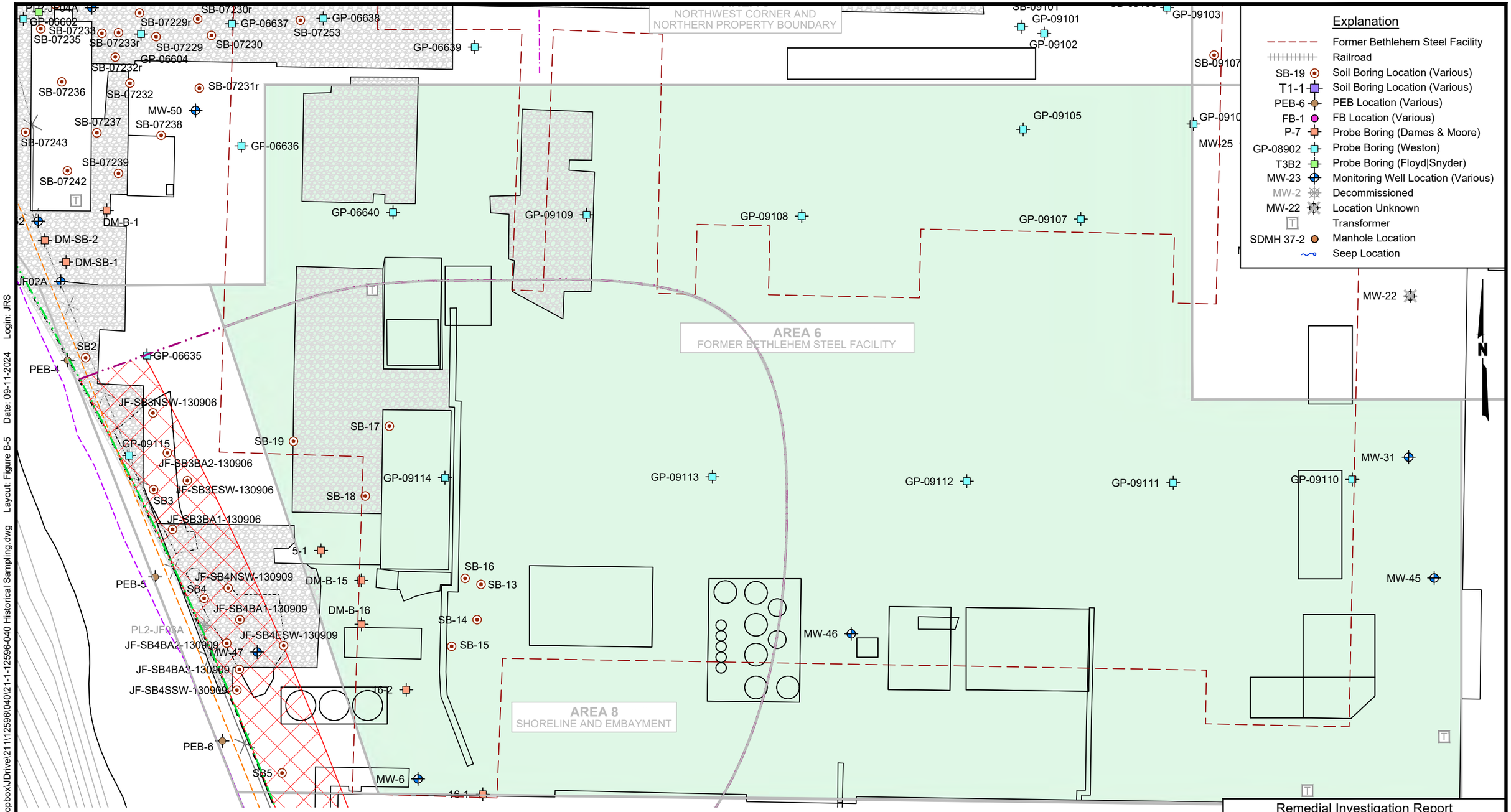
HISTORICAL SAMPLING LOCATIONS - AREA 3

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SHANNON & WILSON, INC. **FIG. B-4**

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Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 Historical Sampling.dwg Layout: Figure B-4 Date: 09-11-2024 Login: JRS



NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.
2. Top of Shoreline Bank adapted from Professional Land Surveyors, Inc., 11078 TOPO.dwg, dated January 24, 2012.

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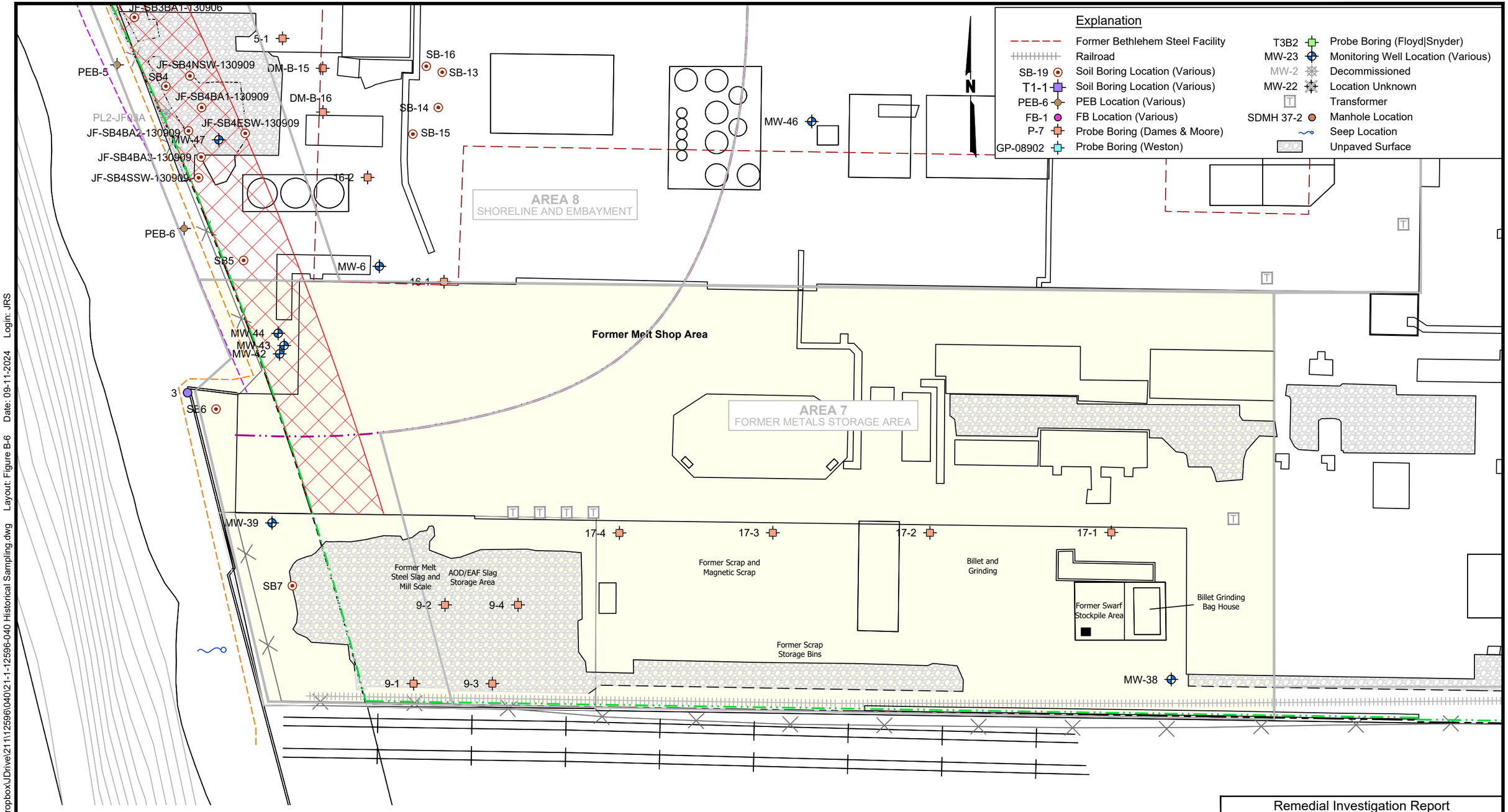
HISTORICAL SAMPLING LOCATIONS - AREA 6

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. B-5**

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Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\1\12596\040\21-1-12596-040 Historical Sampling.dwg Layout: Figure B-5 Date: 09-11-2024 Login: JRS



NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg,* prepared by PES Environmental, Inc. dated July 2017.
2. Top of Shoreline Bank adapted from Professional Land Surveyors, Inc., 11078 TOPO.dwg, dated January 24, 2012.

EXPLANATION

- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Embayment
- Approximate Property Boundary
- Approximate Bulkhead Location
- Unpaved Surface

0 50 100

Scale in Feet

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

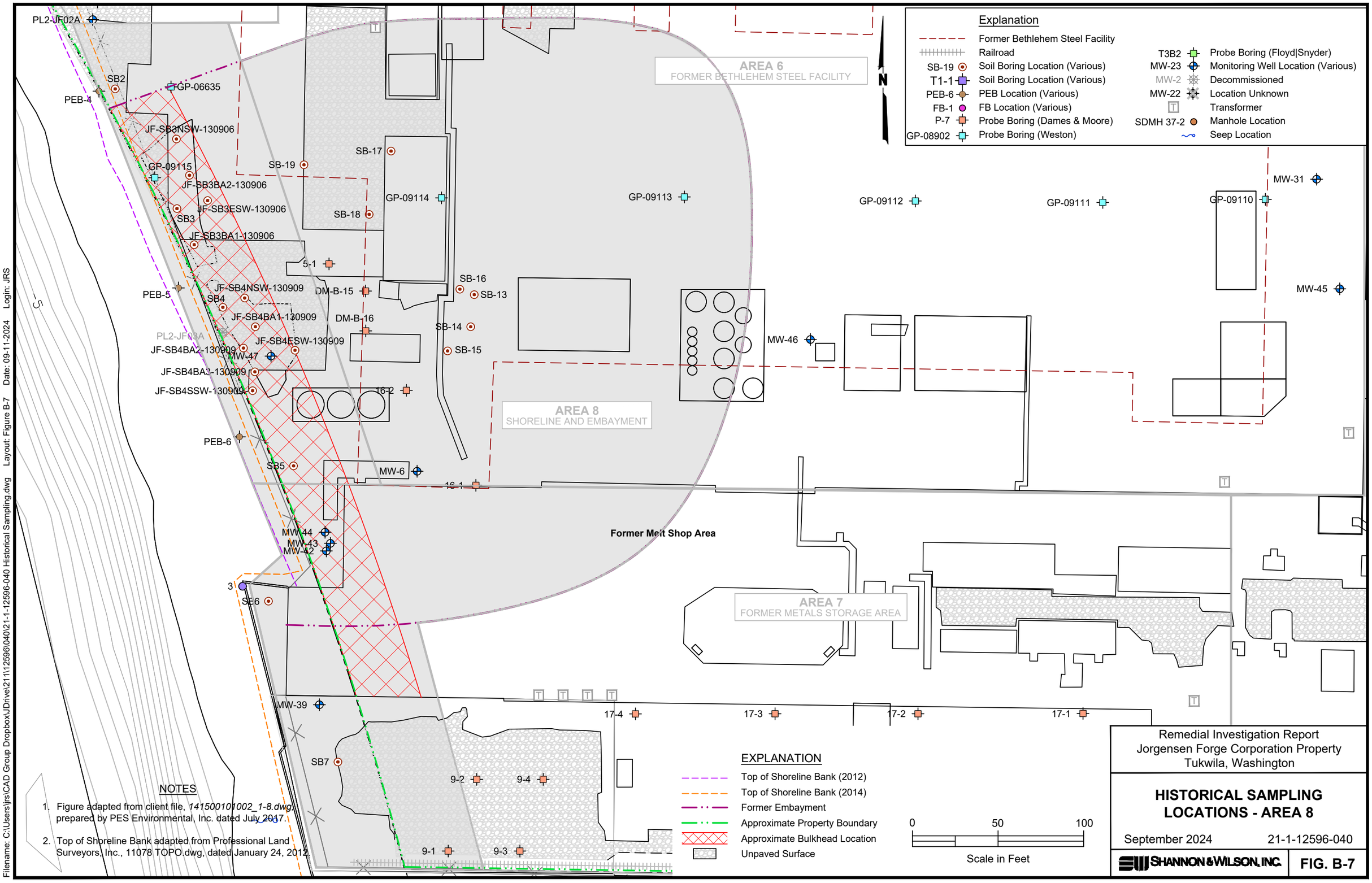
HISTORICAL SAMPLING LOCATIONS - AREA 7

September 2024 21-1-12596-040

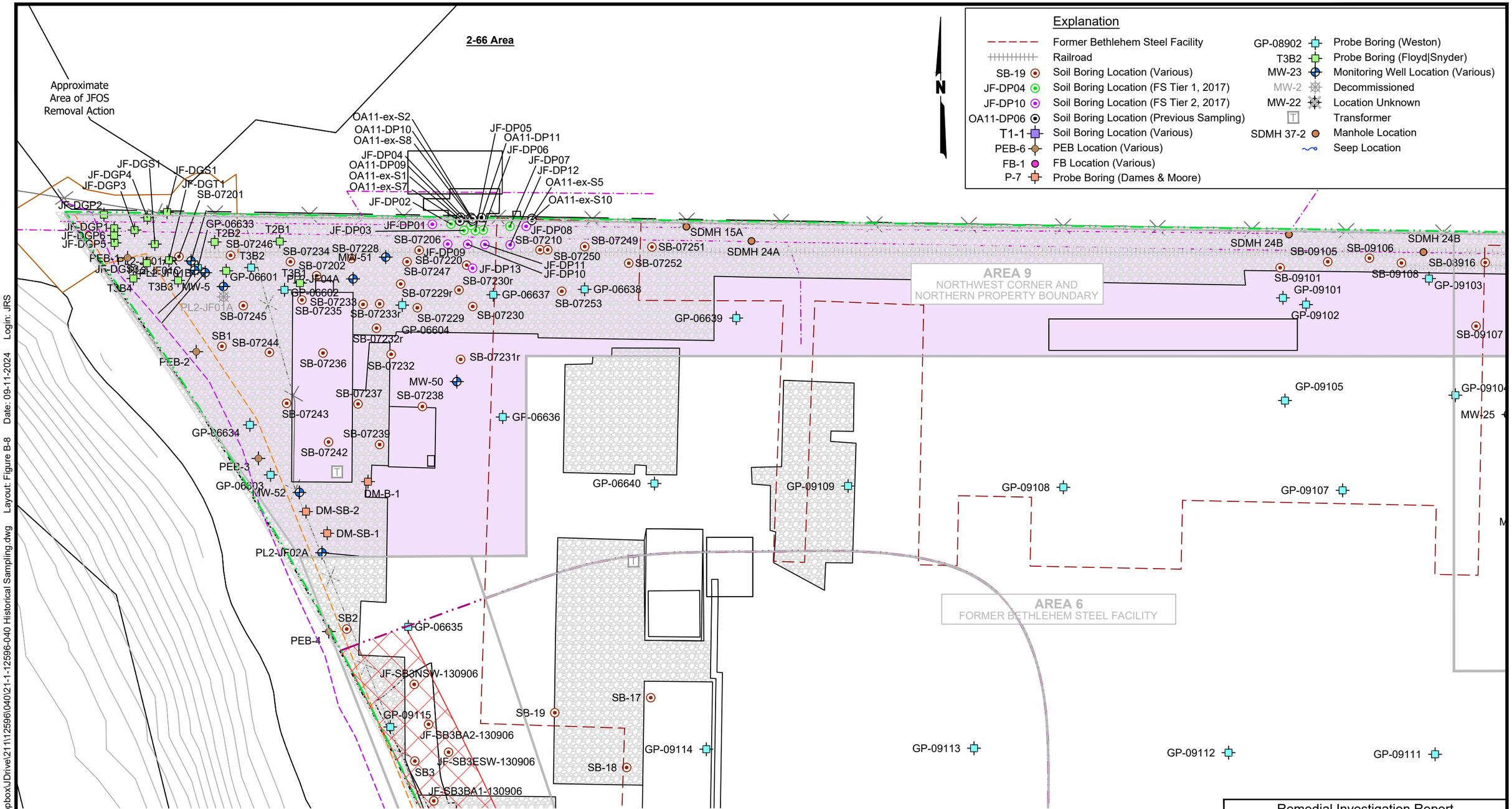
SHANNON & WILSON, INC. FIG. B-6

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Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\040\21-1-12596-040 Historical Sampling.dwg Layout: Figure B-6 Date: 09-11-2024 Login: JRS



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NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg,* prepared by PES Environmental, Inc. dated July 2017.
2. Top of Shoreline Bank adapted from Professional Land Surveyors, Inc., 11078 TOPO.dwg, dated January 24, 2012.

Remedial Investigation Report
Jorgensen Forge Corporation Property
Tukwila, Washington

HISTORICAL SAMPLING LOCATIONS - AREA 9

September 2024 21-1-12596-040

SHANNON & WILSON, INC. **FIG. B-8**

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Boeing Plant 2

2-66 Area Focused Soil and Groundwater Investigation Report

Prepared for

The Boeing Company
P.O. Box 3707
Seattle, Washington 98124-2207

Prepared by

Floyd|Snider
601 Union Street, Suite 600
Seattle, Washington 98101

April 16, 2012

Draft Final

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KEY:

2-66 SHEETPILE LOCATION

APPROXIMATE PLANT 2 PROPERTY BOUNDARY

0 100 200 400

APPROXIMATE SCALE: 1" = 400'

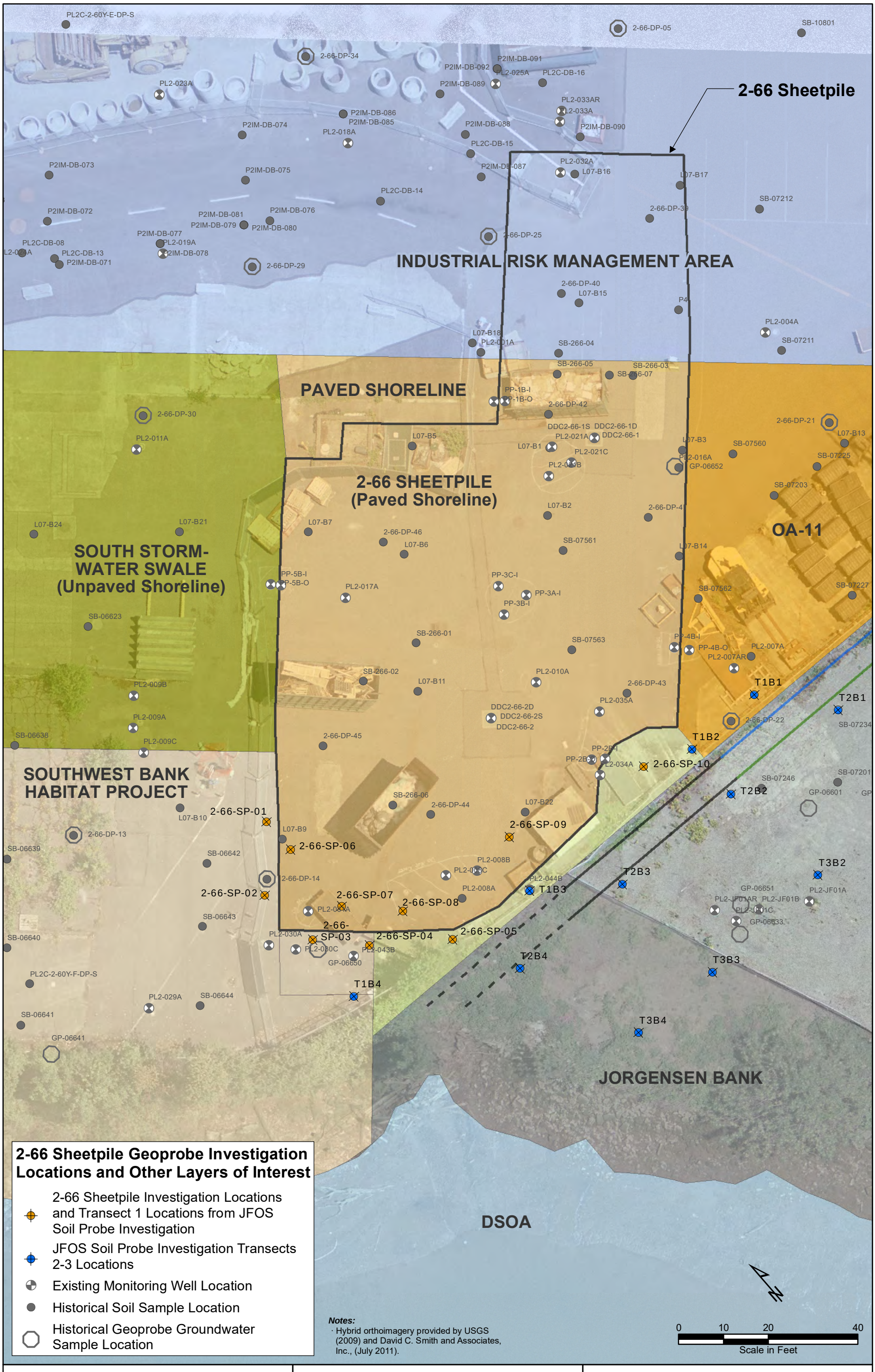
ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

FIGURE 1

SITE REPRESENTATION AND 2-66 SHEETPILE LOCATION

PROJECT	FOCUSED SOIL AND GROUNDWATER IM INVESTIGATION AT THE 2-66 SHEETPILE		
PREPARED FOR	THE BOEING COMPANY		
LOCATION	BOEING PLANT 2 SEATTLE/TUKWILA, WASHINGTON		
SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	ARM	DCK	09/30/11

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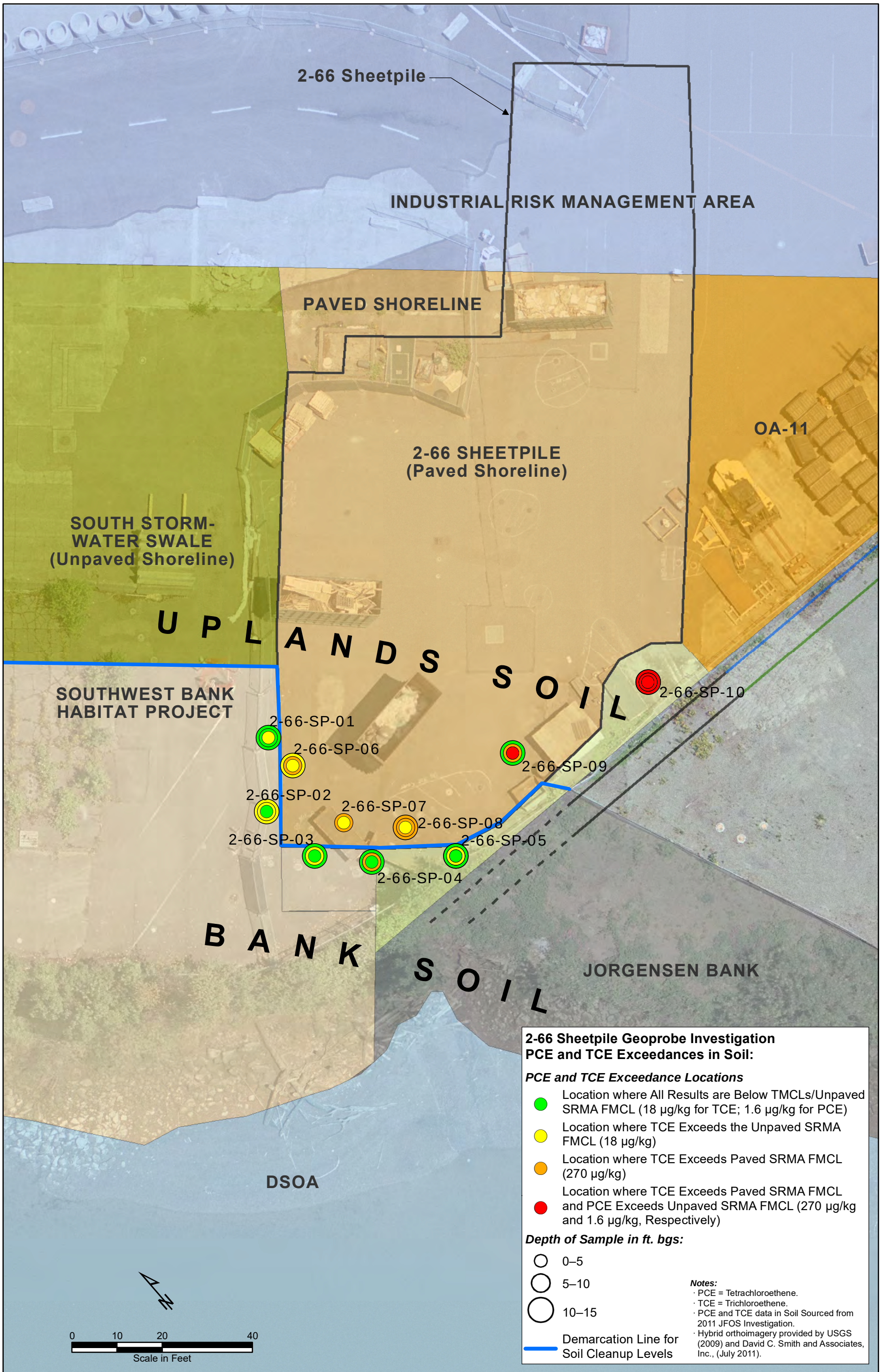
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2-66 Sheetpile Focused Investigation
Boeing Plant 2
Seattle/Tukwila, Washington

Figure 3
Soil and Groundwater Sample Locations

F:\projects\Boeing Plant 2 2011\GIS\MXD\Uplands Cleanup Measures Study\2-66 Sheetpile Focused Investigation 2012\Figure 3 (Soil and Groundwater Sample Locations).mxd
2/24/2012

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Figure 7
Soil Analytical Results–
PCE and TCE in Soil

F:\projects\Boeing Plant 2 2011\GIS\MXD\Uplands Cleanup Measures Study\2-66 Sheetpile Focused Investigation 2012\Figure 7 (PCE TCE Analytical Results in Soil).mxd
4/9/2012

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2-66 Sheetpile

INDUSTRIAL RISK MANAGEMENT AREA

PAVED SHORELINE

SOUTH STORM-
WATER SWALE
(Unpaved Shoreline)

2-66 SHEETPILE
(Paved Shoreline)

OA-11

SOUTHWEST BANK
HABITAT PROJECT

JORGENSEN BANK

DSOA

2-66-DP-22
25

T1B2
130

2-66-SP-10
150

T2B2
0.5

2-66-SP-01
9

2-66-SP-02
26

T3B2
6.4

T2B3
4.5

2-66-SP-03
24

2-66-SP-04
25

2-66-SP-05
4.3

T2B4
1

T3B3
0.6

T1B4
5.2

T3B4
0.2

100 140 120 130 110 90 70 50 30 20 10 0 100 50 80 30 60 40 20 10 0 20 10 0

0 10 20 40
Scale in Feet

2-66 Sheetpile Geoprobe Investigation TCE Exceedances in GW:

Color Code

- Location where All Results are Less than the Corresponding TMCLs
- Location where One or More Results Exceeds the TMCL by an Exceedance Factor from 1 to 25
- Location where One or More Results Exceeds the TMCL by an Exceedance Factor from 25 to 100
- Location where One or More Results Exceeds the TMCL by an Exceedance Factor of 100 or Greater
- Maximum TCE Isoconcentration Contours in µg/L (Contours are dashed where inferred within sheetpile structure)

T3B2 Sample Location and
6.4 Maximum Detected Value

Notes:

- TCE = Trichloroethene.
- TCE data in Groundwater Sourced from 2011 JFOS Investigation.
- Hybrid orthoimagery provided by USGS (2009) and David C. Smith and Associates, Inc., (July 2011).

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2-66 Sheetpile Focused Investigation
Boeing Plant 2
Seattle/Tukwila, Washington

Figure 8
Groundwater Analytical Results–
TCE in Groundwater

F:\projects\Boeing Plant 2 2011\GIS\MXD\Uplands Cleanup Measures Study\2-66 Sheetpile Focused Investigation 2012\Figure 8 (TCE Analytical Results in GW).mxd
2/24/2012

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