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REMEDIAL INVESTIGATION WORK PLAN

Jorgensen Forge Corporation Property

TUKWILA, WASHINGTON

This work plan has been broken into two parts. Parts 1 and 2 form a whole and should be read in conjunction with each other.

<u>Part 1 of 2</u>
Text
Tables
Figures
Appendices A, B, C, and D
Important Information

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April 15, 2020

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Subject: REMEDIAL INVESTIGATION WORK PLAN, JORGENSEN FORGE CORPORATION PROPERTY, TUKWILA, WASHINGTON

This Remedial Investigation (RI) Work Plan 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.

This work plan has been revised in response to Ecology comments dated December 20, 2019 (Ecology, 2019a), on the draft RI work plan dated January 31, 2019 (Shannon & Wilson, 2019).

Sincerely,

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ACRONYMS

µg/L	micrograms per liter
1,1-DCE	1,1-dichloroethene
AFFF	aqueous film forming foam
AHTB	Aluminum Heat Treat Building
AO	Agreed Order
AOC	Administrative Order on Consent
AOD	argon-oxygen decarbonization
AST	aboveground storage tank
BEHP	bis(2-ethylhexyl phthalate)
bfs	below floor surface
bgs	below ground surface
BMPs	Best Management Practices
BTEX	benzene, toluene, ethylbenzene, and xylenes
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CH^4	methane
cis-1,2-DCE	cis-1,2-dichloroethene
CMP	corrugated metal pipe
COCs	chemicals of concern
COPCs	chemicals of potential concern
Cr(VI)	hexavalent chromium
CSM	conceptual site model
CULs	cleanup levels
DAHP	Department of Archaeology and Historic Preservation
DCAP	draft cleanup action plan
Ecology	Washington State Department of Ecology
EAA	Early Action Area
EE/CA	engineering evaluation/cost estimate
EMJ	Earle M. Jorgensen Company
EPA	U.S. Environmental Protection Agency
EPI	Environmental Partners, Inc.
Fe^{2+}	ferrous iron
FS	feasibility study
H:V	Horizontal to Vertical
HASP	Health and Safety Plan
HVOCs	halogenated volatile organic compounds
IDP	Inadvertent Discovery Plan
JFC	Jorgensen Forge Corporation
JFOS	Jorgensen Forge Outfall Site

KCIA	King County International Airport
LDW	Lower Duwamish Waterway
LDWG	Lower Duwamish Working Group
LIF	laser-induced fluorescence
LNAPL	light nonaqueous phase liquid
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
Mn^{2+}	manganese
MTBE	methyl tert-butyl ether
MTCA	Model Toxics Control Act
NAPL	non-aqueous phase liquid
NAVD88	North American Vertical Datum 88
ng/L	nanograms per liter
No.	number
NO^{2-}	nitrite
NO^{3-}	nitrate
NOAA	National Oceanic and Atmospheric Administration
NOV	Notice of Violation
NPDES	National Pollution Discharge Elimination System
NSZD	Natural Source Zone Depletion
O^2	oxygen
OA	Other Area
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PCE	tetrachloroethene
PCUL	Preliminary Cleanup Level
PFAS	per- and polyfluoroalkyl substances
PFBS	perfluorobutanesulfonic acid
PFHpA	perfluoroheptanoic acid
PFHxS	perfluorohexanesulfonic acid
PFNA	perfluorononanoic
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonate
PQL	practical quantitation limit
QAPP	Quality Assurance Project Plan
RA	remediation area
RCRA	Resource Conservation and Recovery Act
RI	remedial investigation
RL	reporting limit

ACRONYMS

R/W	Rhiensthal-Wagner
SAP	Sampling and Analysis Plan
SCER	Source Control Evaluation Report
SECOR	SECOR International, Inc.
Site	8531 East Marginal Way South, City of Tukwila, Washington
SMP	Supplemental Monitoring Plan
SO_3^{2-}	sulfite
SO_4^{2-}	sulfate
SSP	steel sheet pile
SVOCs	semi-volatile organic compounds
SWPPP	Storm Water Pollution Prevention Plan
TCE	trichloroethene
TOC	total organic carbon
TPH	total petroleum hydrocarbons
TPH-D	total petroleum hydrocarbons diesel-range
TPH-G	total petroleum hydrocarbons gasoline-range
TPH-O	total petroleum hydrocarbons oil-range
Cr(III)	trivalent chromium
TSS	total suspended solids
UCMR 3	EPA's third Unregulated Contaminant Monitoring Rule
USACE	U.S. Army Corps of Engineers
UST	underground storage tank
VOCs	volatile organic compounds
WQC	water quality characterization

1 INTRODUCTION

This remedial investigation (RI) work plan has been prepared on behalf of the Earle M. Jorgensen Company (EMJ) under Agreed Order (AO) Number (No.) DE 14143, issued by the Washington State Department of Ecology (Ecology) and dated July 28, 2017 (Ecology, 2017). Under the AO, EMJ will complete a RI and feasibility study (FS) and will prepared a draft cleanup action plan (DCAP) for the uplands portion of the Jorgensen Forge Corporation (JFC) property located at 8531 East Marginal Way South, City of Tukwila, Washington (Site). The location of the Site is shown in Figure 1.

The proposed RI activities include collection of soil samples from borings; installation of groundwater monitoring wells; groundwater sampling and light non-aqueous phase liquid (LNAPL) monitoring; and LNAPL delineation and transmissivity testing.

1.1 Regulatory Status

The Lower Duwamish Waterway (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).

The 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 of the JFC property are being addressed under EPA oversight, and though discussed within this document, are not included in the Site as defined within the AO. These include:

- LDW sediments and the shoreline bank located to the west of the historic top of shoreline bank (Figure 2) 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, is being addressed under EPA oversight under AOC No. 10-2011-0017.

As a result of remedial activities completed in 2014 for the Jorgensen Forge EAA, the top of shoreline bank shifted inland to the east. The historic top of shoreline bank and current top of shoreline bank are both shown in Figure 2 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 because it was previously a portion of the uplands. However, it should be noted that the shoreline wedge was partially remediated under EPA oversight in 2014.

According to the Department of Archaeology and Historic Preservation (DAHP) Washington Information System for Architectural and Archaeological Records Data database, the Site is located in an area that is designated as "Survey Highly Advised: Very High Risk." To support compliance with state cultural resource protection laws, an archaeological company (Stell) was subcontracted to develop an Inadvertent Discovery Plan (IDP) for the RI activities described in this work plan. The final IDP is provided within the Sampling and Analysis Plan (SAP) (Appendix E of this work plan). Stell will obtain DAHP approval of the IDP prior to commencing the field activities.

1.2 Purpose

The RI described in this work plan is being undertaken to address data gaps that remain after the extensive investigations that have been previously undertaken at the Site. The work will characterize the nature and extent of contaminants and collect further information about the physical characteristics of the Site. The investigation is limited to the uplands portion of the property as the LDW sediments and the shoreline bank are under EPA oversight and are being addressed separately, as discussed in the previous section.

The information collected during the RI is intended to assist in determining whether a risk to human health and ecological receptors exists. The information, along with previously collected information, will also be used to inform the selection of potential remedial approaches, as necessary, in the FS.

1.3 Work Completed Outside of the Agreed Order (AO)

Prior to the July 28, 2017, issuance of the AO, Shannon & Wilson prepared a work plan to complete groundwater monitoring well repair activities and two rounds of groundwater monitoring and sampling at the Site (Shannon & Wilson, 2017). The well repair activities and the first groundwater monitoring and sampling event were completed in August 2017.

The second groundwater monitoring and sampling event was completed in February 2018. Findings from these events are incorporated into this work plan.

1.4 Report Organization

This work plan is organized into 13 sections as follows:

- Section 1 – Introduction: Describes the purpose and limits of the RI, introduces the LDW-related actions, and outlines the organization of this report.
- Section 2 – Site Description and Background: Provides a summary of the location, history, and major manufacturing operations conducted at the Site and provides a brief description of the surrounding properties.
- Section 3 – Setting: Describes the Site geological and hydrogeological conditions.
- Section 4 – Site Areas: The Site has been divided into nine areas to aid the reader in understanding the history of operations and past investigation work. Section 4 introduces each of these Site Areas.
- Section 5 – Previous Investigations: References previous explorations at the property, including preliminary Site assessments and characterizations, interim cleanup action investigations, investigations conducted under EPA oversight, source control and outfall investigations, and stormwater evaluations. Section 5 also provides update on recent soil, groundwater, and stormwater sampling activities.
- Section 6 – Previous Remedial Actions: References previously conducted interim cleanup actions, source control actions, outfall and early action remediation, and installation of the stormwater treatment system.
- Section 7 – Preliminary Conceptual Site Model (CSM): Provides a summary of the potential sources, transport mechanisms, exposure media and pathways, and receptors.
- Section 8 – Preliminary Screening Levels and Chemicals of Potential Concern (COPCs): Introduces the preliminary screening levels protective of sediments and surface water in the LDW and describes how they have been utilized to screen data previously collected at the Site. The section also describes the evaluation completed to define the COPCs for the Site.
- Section 9 – Current Environmental Conditions and Data Gaps: Discusses the nature and known extent of contamination within each Site Area and identifies data gaps based on the results of previous Site investigations and our understanding of Site conditions as defined in the CSM.
- Section 10 – RI: Describes the RI approach and provides an overview of the scope of work for implementing the RI.

- Section 11 – Reporting and Schedule: Provides a description of the reports to be produced during the RI and a schedule for implementation and reporting of the RI results.
- Section 12 – Limitations: Discusses the limitations of this work plan.
- Section 13 – References: Lists the sources of information referenced in the document.

The work plan is supported by tables and figures and by several appendices, including:

- Appendix A – Historical Aerial Photographs and Map: Includes historical aerial photographs and map documenting Site development dating back to 1931.
- Appendix B – Historical Site Data: Includes tables and figures that summarize soil and groundwater data collected at the Site.
- Appendix C – Facility Walk-Through Findings: Includes a table documenting the September 2018 facility walk-through and additional observations made during 2019/2020 property clean closure activities.
- Appendix D – Excerpts from Previous Reports: Select tables and figures have been extracted from previous Site investigations as appropriate.
- Appendix E – SAP - RI: Provides explanation of procedures to be followed during RI activities.
- Appendix F – Quality Assurance Project Plan (QAPP) - RI: Quality assurance and quality control procedures for the project are presented.
- Appendix G – Health and Safety Plan (HASP) - RI: Includes the site-specific HASP.
- Appendix H – Cross-Reference of Feature Identification with SoundEarth Nomenclature: Includes a cross-reference of Site feature names used within this work plan to names and identifiers used by SoundEarth Strategies, Inc. during clean closure activities.

1.5 Property Location and Description

The Site is located at 8531 East Marginal Way South in Tukwila, Washington. 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 LDW at approximately LDW River Mile marker 3.6, between Slip 4 and Slip 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 (Section 2.4.2). 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. The surrounding properties are further discussed in Section 2.4.

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 1943 and October of 2018, metal parts for various uses were manufactured during facility operations. The facility was shut down in October 2018 and the plant commenced decommissioning in late 2018 (decommissioning activities are discussed in Section 2.3).

Currently, the structures on the Site remain. A Site plan showing the Site layout and major features is provided in Figure 2. The property is developed with an approximately 124,000-square-foot prefabricated steel building (main building). The main building is 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, is the Aluminum Heat Treat Building (AHTB) and Rectifier Room, which was formerly a Power House. A wood-frame office building is located within the northeastern portion of the Site, to the north of the main building. The central portion of the Site is paved with concrete that was used for parking and storage of finished product, unused equipment, and materials. A stormwater treatment system is situated in the center of the property to the north of the Former Melt Shop Area of the main building. A wood-frame laboratory, used to conduct physical testing on metal products, and offices are located within the center of the property to the east of the stormwater treatment system. A Former Metals Storage Area is 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 cover much of the Site. Portions of the ground surface along the western and northwestern areas of the property are covered with gravel that was placed in approximately 1990. Railroad spur lines, located along the northern and southern ends of the Site, are also unpaved. Additionally, the far western portion of the Former Metals Storage Area and the area south of the Forge Shop Area are unpaved. An abutted sheet pile/concrete panel bulkhead bounds the property along the southwestern shoreline (i.e., adjacent to the Former Metals Storage Area). 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 was 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).

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 buildings associated with the Former Melt Shop encroach 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. The Port of Seattle-owned property is shown in Figure 2 along with 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.

2 SITE DESCRIPTION AND BACKGROUND

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 by Anchor Environmental, LLC and Farallon in May 2008 (Anchor and Farallon, 2008), and (b) the Final Source Control Evaluation Addendum Report issued by Anchor QEA, LLC and Farallon in March 2011 (Anchor QEA and Farallon, 2011).

2.1 Property History

Aerial photographs and a map documenting historical development of the Site are provided in Appendix A. The photographs are from several sources, including but not limited to, the EPA Aerial Photographic Analysis of Jorgensen Forge Corporation/Duwamish River (EPA, 2003), photographs presented within the SCER (Anchor and Farallon, 2008), and photographs provided within the PES, Inc. Environmental draft RI work plan (PES, 2015). A U.S. Army Corps of Engineer (USACE) map for 1931 (prepared in 1932) was also used to determine the Site history and is included in Appendix A (USACE, 1932). These photographs and maps provide information regarding the use of some of the upland areas within and surrounding the Site.

Fill is shown as present on the Site and the adjacent property to the north on the 1931 USACE map (USACE, 1932) and in the interpretation presented for the 1940 historical aerial photograph (EPA, 2003). The aerial photographs show that the western end of the Site was formerly an embayment of the Duwamish River. The embayment is visible in the 1936, 1940, and 1944 photographs and is shown as filled in the February 1946 photograph. The embayment was filled in 1944 under permits authorized by the USACE. Two permits (provided as Attachment D-1 of Appendix D) 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 Slip 5 and 6 in the LDW. The historical use of the properties between Slips 5 and 6 are discussed further in Section 2.4.5. The bulkhead at the mouth of the embayment can be observed in mid-construction on the aerial photograph dated 1944.

The photographs and 1932 map show that a drainage ditch existed near the current northern property line with the Boeing Plant 2 facility. Historical aerial photographs show that this 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 (discussed further in Section 2.4.4), 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 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. Isaacson also owned the property to the south of the Site.

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 Steel operated a steel distribution center on the northwestern portion 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 Steel facility were removed shortly after the facility closed in the early 1960s. The original slab-on-grade concrete foundation for the Bethlehem Steel 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.

In 1965, EMJ purchased both the Isaacson northern property and the Bethlehem Steel property. EMJ owned and operated the facility until 1992. From 1992 to 2015, the property was owned and operated by JFC. Following JFC's bankruptcy, the Site became owned by Star Forge, LLC, which continues to operate under the JFC name.[1] The only significant Site

[1] Although Star Forge, LLC operates under the JFC name, for purposes of clarity we refer to the post-bankruptcy owner of the Site as "Star Forge."

development from 1960 to the present was an extension of the westernmost portion of the main building adjacent to the sheet pile wall on the southwest corner of the property. This change is evident when aerial photographs taken in 1960 and 1969 are compared. The comparison also suggests that the property bank alignment was altered sometime before 1960; 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.

2.2 Historical Operations and General Description of Operations

Until 2018, operations at the Site remained relatively unchanged over the past 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.

2.2.1 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, 2020a). 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.

2.2.2 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).

2.2.3 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.

2.3 Facility Closure Activities

Facility operations ceased in October 2018 and Star Forge has entered into a purchase agreement with King County. Prior to the sale, Star Forge is pursuing clean closure under the State Dangerous Waste requirements. SoundEarth is organizing the clean closure activities on behalf of Star Forge. Cleaning of the facility commenced in October 2019.

Star Forge plans to demolish all buildings on the property in preparation for the potential sale. Demolition work is pending the State Environmental Permit Act approval. Once approved, the demolition work is to be phased. Hazardous material abatement activities began in November 2019. Star Forge also plans to decommission and remove regulated underground storage tanks (USTs) on the property.

Shannon & Wilson conducted a walk-through of the facility in September 2018 and documented the condition and dimension of the vaults. Findings from the September 2018 facility walk-through, including detailed descriptions of observed Site features, observations, and measurements are provided within Table C-1 of Appendix C. Between October 2019 and March 2020, Shannon & Wilson visited the facility on multiple occasions to observe the cleaned vaults. Observations from these visits have been incorporated into Table C-1. Belowground features are detailed in Figure 3.

2.4 Surrounding Property Description

This section describes the development and uses of the properties primarily located to the north, south, and east of the Site.

2.4.1 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 JFC property (known as Area-66 and the South

Yards) was developed and paved in the 1942 (Floyd | Snider and Weston Solutions, Inc., 2005).

Soil and groundwater at the facility has been impacted with polychlorinated biphenyls (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 EEA 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, include:

- 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 gasoline-range (TPH-G), total petroleum hydrocarbons 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 total petroleum hydrocarbons 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 Attachments D-2 and D-3 of Appendix D.

2.4.2 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 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 properties are known as the Boeing Isaacson-Thompson site.

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 southern Isaacson 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 (2018b), chemicals of concern (COCs) at the Isaacson-Thompson site include metals (arsenic, cadmium, chromium, lead, mercury, nickel, and zinc), PCBs, and petroleum hydrocarbons in soil; metals (arsenic, barium, chromium, and lead) in groundwater; metals (antimony, arsenic, and lead) in stormwater; metals (arsenic), PCBs, polyaromatic hydrocarbons (PAHs), and 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 is underway.

2.4.3 King County International Airport (KCIA)

Construction of the 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 site covers about 615 acres (Ecology, 2006).

Immediately adjacent to the Site, activities on the KCIA comprise of storage buildings. 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 (see Section 2.4.4 below). Contamination has been identified within and at the outfall of the 24-inch pipeline.

2.4.4 Jorgensen Forge Outfall Site (JFOS)

The JFOS is comprised of two stormwater conveyance pipelines (a 12-inch pipe and a 24-inch pipe), which ran from east to west along the northern property boundary (on JFC property) and drained to the LDW. The pipelines (previously discussed in Section 2.1) are believed to have been constructed in the 1930s and 1940s on an easement across the Site. The 12-inch pipe received drainage from the Boeing Plant 2 facility and ran across the western end of the northern property boundary. The 24-inch pipe received drainage from the Boeing Plant 2 facility, the KCIA, the Bethlehem Steel facility, and the City of Tukwila and ran the entire length of the northern property boundary.

Both pipes 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 in Section 1.1, 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). JFOS investigations and remedial actions are described in Sections 5.12 and 6.4, respectively.

2.4.5 Properties Between Slips 5 and 6

The embayment area on the Site was infilled 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 Isaacson-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. The Isaacson site would have been Slip 5, so likely all the dredging occurred in the channel adjacent to the 8801 and Monsanto properties.

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.

3 SETTING

This section discusses the geology and hydrogeology at the Site. The information is based on previous investigations and on groundwater data collected by Shannon & Wilson in August 2017 and February 2018.

3.1 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 or more feet with sand and silt. The sand is mostly loose to medium dense sand, typically with characteristic red andesite particles 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 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 compiled by EPA (2003) and historical USACE records indicate that the embayment was filled in 1944 (Attachment D-1 of Appendix D).

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 onsite boring (PL2-JF01C). The silt and clay deposits occur from 8 to 14 feet bgs and may have also been deposited through estuarine or tideflat processes. Below about 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 4 and cross sections are presented within Figures 5 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) (if present)*** soft, brown to gray, black in places, moist to wet, slightly plastic, sandy in places, occasional organics, 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 soils 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.

3.2 Hydrogeology/Groundwater System Characteristics

This section discusses the hydrogeology at the Site, the groundwater gradient, and the tidal influence from the LDW. Monitoring wells completed at the Site are summarized in Table 1 and water level measurements and groundwater elevations are provided in Table 2.

3.2.1 Hydrostratigraphy

The Site is generally underlain by sand and silty sand, with isolated lenses and layers of silt and clay. The cross sections in Figures 5 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 (Anchor and Farallon, 2008).

Groundwater flow within the shallow aquifer is influenced by the presence of saline water that has intruded from the LDW (Weston, 1996). Following the initial dredging and realignment of the waterway in 1918, saltwater extended back into the waterway and, driven by density, intruded downward below the waterway into the aquifer (Weston, 1996).

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).

3.2.2 Groundwater Elevations

Groundwater elevations typically range between 2 and 12 feet (North American Vertical Datum 88 [NAVD88]). Groundwater levels fluctuate daily due to tidal influences and seasonally due to precipitation. Tidally influenced groundwater fluctuations of up to 9 feet were observed in select monitoring wells in the western portion of the Site in August 2017.

Average low and high tides of 0.4 and 7.9 feet (NAVD88), respectively, are predicted for 2020 for the nearby National Oceanic and Atmospheric Administration (NOAA) 8th Avenue South LDW station.

The depth to groundwater on the eastern portion of the Site shows seasonal response. Water levels measured in February 2018 (wet season) were typically 1.5 to 2 feet higher than levels measured in August 2017 (dry season).

3.2.3 Groundwater Flow Direction

Groundwater flow was previously evaluated at the boundary between the Site and the Boeing Plant 2 South Yard. Data transducers were installed in 20 wells (10 on each property) and water level measurements were taken in 10-minute intervals for at least 72 hours. Environmental Partners, Inc. (EPI) determined the time-weighted average groundwater flow direction to be toward the west-southwest across most of the Site, with more westerly flow in the northwest corner of the Site (PES, 2015).

Shannon & Wilson’s evaluation of the groundwater flow direction was based on manual groundwater measurements across the Site on August 15, 2017, and February 5, 2018, and based on pressure transducer readings collected within the western portion of the Site from August 11 to 14, 2017. The results of the evaluation indicate that in the eastern portion of the Site, the groundwater flow direction is to the southwest. In the western portion of the

Site, the groundwater flow direction becomes variable and is affected by the tidal cycle, and also likely affected by the variability of the subsurface in the area of the backfilled embayment. In general, in the western portion of the Site, the groundwater flows toward the LDW. Groundwater contours generated using the August 2017 and February 2018 measurements are provided in Figures 11 and 12.

3.2.4 Tidal Influences

Tidal influence of the groundwater levels on the Site were observed during groundwater monitoring at select monitoring wells on the western portion of the Site from August 11 to 14, 2017. Estimated tidal fluctuations, from the NOAA 8th Avenue South LDW station, were plotted along with groundwater elevations (Figure 13). The groundwater elevations appear to correlate to the estimated tidal fluctuations with groundwater elevations showing muted and delayed response. Groundwater fluctuations of up to about 9 feet were observed during a single tide change from low tide to high tide. Tidal efficiency studies have been conducted on the adjacent Boeing Plant 2 and Boeing Issacson properties. Both studies demonstrate that the most significant tidal effects (greater than 10%) are only observed within 400 feet of the LDW (Anchor and Farallon, 2008).

3.2.5 Aquifer Test Results

During the RI/FS completed by SECOR for Area 3, a step drawdown test and constant rate pumping test were performed using six wells (EW-1, MW-3, MW-4, MW-8, MW-9, and MW-11) to determine aquifer properties in that area (SEACOR, 1993c). Analysis of the pump tests measured:

- Hydraulic conductivities of 0.09 to 0.3 foot/minimum,
- Transmissivities of 1.2 to 2.0 square feet/minimum,
- Storage coefficients of 0.005 to 0.007, and
- Specific yields of 0.18 to 0.43.

The higher specific yield value may have been the result of vertical flow that was assumed to be negligible (SEACOR, 1993c).

4 SITE AREAS

For the purposes of this work plan, the Site has been divided into nine areas as illustrated in Figure 14. Site area boundaries were selected based on Site activities conducted within the areas and chemical usage associated with the area-specific activities. In general, these are not "areas of concern," but have been 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. Sitewide contaminants are discussed in Section 9.10.

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 C-1 of Appendix C. Observations made during visits completed between October 2019 and January 2020, following vault cleaning activities, have been added to the table. Observations from the September 2018 facility walk-through and 2019/2020 visits are incorporated into the following Site area descriptions.

During recent facility walk-throughs, 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). When asked about the systems, a long-time facility employee indicated that he was not aware of the systems being activated, either in response to a fire or inadvertently, and that he had not observed leaks from the systems. He indicated that the systems were serviced annually (Turk, 2020b). The AFFF fire suppression systems are further discussed in Section 9.12.

Potential sources of contamination across the Site, such as vaults, aboveground storage tanks (ASTs), USTs, chemical and waste storage areas, or other features such as oil-water separators, are summarized in Table 3. For the purposes of this report, a tank is classified as a UST if 10% or more of the volume is bgs, regardless of whether the tank is situated within a vault. Table 3 includes a brief description of each feature (greater detail provided in Table C-1 of Appendix C), a discussion regarding whether the feature is a likely source of contamination based on the September 2018 facility walk-through and 2019/2020 observations, a discussion of investigations completed within the vicinity of the feature, and an assessment of whether further investigation is warranted.

4.1 Area 1 – Hollowbore Area

Area 1 includes 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 LNAPL plume and potential source features. Within the main building, Area 1 includes the Hollowbore Area, a portion of the Machine Shop Area, and the Shipping Area. Outside of the main building, Area 1 encompasses 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 (R/W) 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 3, 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 Attachment C-1 of Appendix C.

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 15, 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 15). During the 2019/2020 observations, the vault was observed; however, the tank had already been removed.

Historically, a 4,000-gallon AST was used to store make-up cutting oil for the lathes. As shown in Figures 3 and 15, 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 3 and 15, 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 dry-cleaning solvent (i.e., P-D-680 [mineral spirits product]) and fingerprint remover/neutralizer (Tectyl 833 [petroleum-based product] or equivalent) (Anchor and Farallon, 2008). Reportedly, Solvent Gold was most recently used for this activity (PES, 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.

4.2 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 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 observations, 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 15, 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 Attachment C-1 of Appendix C.

4.3 Area 3 – Former Underground Storage Tank (UST) 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.

4.4 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 (discussed within Section 5.3), 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 observations, 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 C-1 of Appendix C.

4.5 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 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 observations for features within Area 5 are presented in Attachment C-1 of Appendix C.

4.6 Area 6 – Former Bethlehem Steel Facility

Area 6 encompasses the location of the Former Bethlehem Steel 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 Steel 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 (discussed within Section 6.3.3) 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 Attachment C-1 of Appendix C.

4.7 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 (discussed within Section 6.3.1).

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, 2014b). 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 observations, 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 Attachment C-1 of Appendix C.

4.8 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 (3H:1V) ratio and covered with granular activated carbon-amended filter material, armor material, and rounded habitat material. As shown in Figure 14, 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 (discussed in Section 4.7). 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 (Section 4.6) are present within the former embayment portion of the area where it overlaps with Area 6.

4.9 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 COCs from Boeing Plant 2 (Floyd | Snider, 2012; EPI and others, 2005) have included soil and groundwater impacts associated with Boeing RA 4, RA5, and RA 9, specifically with a former trichloroethene (TCE) tank and associated piping system (Weston, 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 (Section 4.1). The JFOS is in Area 9.

5 PREVIOUS INVESTIGATIONS

This section provides a summary of environmental investigations conducted at the Site to date. Investigation locations completed across the Site are shown in Figures 16A through 16H. Table 4 includes a summary of investigation locations completed at the Site. Available results from the investigations discussed within this section are presented within Appendix B tables.

5.1 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 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 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.

5.2 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 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 NPDES permit.

The investigation identified the following:

- Elevated concentrations of 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).
- 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 in several surface soil samples.
- Visible sheen discharging from what is now called Outfall 003.
- Elevated concentrations of several chlorinated and non-chlorinated VOCs in groundwater along the northwestern corner of the Site (MW-5), including concentrations of benzene exceeding the MTCA Method A cleanup level.

- Elevated concentrations of cadmium, chromium, and arsenic in groundwater exceeding the then-current MTCA Method A cleanup levels (CULs) in MW-6 and MW-7.

Figures from the limited Site characterization showing the sample locations are provided within Attachment D-4 of Appendix D.

5.3 Tank Tightness Tests

Between December 1990 and January 1991, SECOR[2] 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 and Farallon, 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.

5.4 Area 1 – Hollowbore Area Investigations

The 1990 limited Site characterization (Dames & Moore, 1990b) identified the presence of 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.

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[2] 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/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 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 16B. Extracted figures from the RI/FS report (SEACOR, 1993b) are provided in Attachment D-4 of Appendix D. 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 R/W 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).

5.5 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.

5.5.1 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 16C). 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 4 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).

5.5.2 Decommissioned Diesel Storage Area Investigations

The eight ASTs 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 9 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-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.

5.6 Area 3 – Former Underground Storage Tanks (USTs) 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-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.

5.7 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 16C).

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).

5.8 Administrative Order on Consent (AOC) Investigations

On July 10, 2003, EMJ entered into an AOC with 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 PCBs and metals to sediments within the 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 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.

5.9 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. Further investigation is needed in this area (discussed within Section 9.5).

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.

5.10 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, 2011).

5.11 Boeing Resource Conservation and Recovery Act (RCRA) 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 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.

5.11.1 Boeing Area 2-66

Investigations completed within Boeing Area 2-66 have shown impacts associated with a historical 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 VOCs (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.

5.11.2 Other Area 11 (OA-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 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 16H. 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. A letter was submitted in response to the technical memorandum (Shannon & Wilson, 2018). Select figures from the response letter showing the extent of PCB-contaminated soil associated with Boeing OA-11 are provided as Attachment D-3 of Appendix D.

5.12 Jorgensen Forge Outfall Site (JFOS)

The stormwater conveyance system, known as the JFOS (Section 2.4.4), 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 KCIA 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. An investigation was conducted on behalf of JFC to assess the extent of the 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 JFC property 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.

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. Select figures from the report that show the stormwater solids sampling locations are provided within Attachment D-5 of Appendix D.

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 Steel 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, 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.

Twelve borings (T1B1 through T1B4, T2B1 through T2B4, and T3B1 through T3B4) were advanced to evaluate the release of hazardous substances to soil surrounding 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 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, 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 EAA. The results of the angle boring investigation were presented in the Data Report of Soil Quality Angle Boring Results (SoundEarth, 2013).

5.13 Lower Duwamish Working Group (LDWG) Shoreline Seep Investigation

The 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; SVOCs, PCBs, organochlorine pesticides, VOCs, total organic carbon (TOC), dissolved organic carbon, and total suspended solids. SVOCs, PCBs, organochlorine pesticides, and VOCs were not detected. Copper was the only metal detected above the LDW screening level.

5.14 Source Control Evaluation Investigations

Following an 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 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.

5.15 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 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). The most recent available monitoring report (SoundEarth, 2017) documents system sampling completed during the second half of 2016.

A brief summary of the stormwater sampling results is provided in the following sections. Relevant tables and figures, extracted from the referenced reports, are presented within Attachment D-6 of Appendix D. Figures from the SWPPP (SoundEarth, 2015) depicting stormwater capture at the Site and illustrating the current stormwater treatment system process diagram are also provided within Attachment D-6 of Appendix D.

5.15.1 Source Control Evaluation Report (SCER) 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.

5.15.2 Source Control Evaluation Report (SCER) 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.

5.15.3 National Pollutant Discharge Elimination System (NPDES) 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. As part of the engineering work, the outfalls were combined and Outfall 003 became the sole stormwater discharge point for the facility. The stormwater treatment system became operational in March 2013.

5.15.4 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 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.

The results were used in the design of modifications to the stormwater treatment system. The stormwater treatment system modifications were completed in August 2014.

5.15.5 Semiannual Treatment System Monitoring Report

The stormwater treatment system includes a central underground vault from which stormwater is pumped through a series of five settling tanks and then through pressurized sand filters. The stormwater is 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 are backflushed automatically (based on differential pressure). The backflush water is 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).

After the 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:

- PCBs
- Metals (total and dissolved arsenic, chromium, copper, lead, mercury, and zinc)
- Bis(2-ethylhexyl)phthalate (no longer sampled; SMP conditions met in August 2015)
- TPH-D and TPH-O
- Total suspended solids (TSS)
- pH (field-measured)
- Turbidity (field-measured)
- Visible oil sheen (field-measured)

A summary of the stormwater sampling results from monitoring performed during the second half of 2016 is presented below and represents the current stormwater quality being discharged from the Site (SoundEarth, 2017):

- Aroclor 1262 was detected within the WQC samples collected in July, August, September, October, and November 2016 at concentrations ranging from 0.013 to 0.074 μg/L. PCBs were not detected within the WQC sample collected in December 2016 or within any of the effluent samples.
- The effluent sample collected in July 2016 contained total copper and total zinc at concentrations exceeding the benchmark value; additional sampling concluded that the samples were compromised and that the benchmarks were not exceeded.
- TPH, TSS, pH, and turbidity were below their respective benchmarks during the reporting period. Visible sheen was not observed.

Tables from the most recent available stormwater treatment system monitoring report are provided for reference in Attachment D-6 of Appendix D.

5.16 Ecology Lower Duwamish Waterway (LDW) Polychlorinated Biphenyl (PCB) 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.

5.17 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 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.

Results from the groundwater and LNAPL analyses are included within the tables provided in Appendix B. Key findings include:

- Samples collected from wells MW-3 and MW-4 contained TPH-G at concentrations exceeding the screening level of 800 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-14, MW-23, MW-24, MW-25, MW-32, MW-36, and MW-37 at concentrations exceeding the screening level of 5 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 chromium was detected in 23 of 24 analyzed samples. All detections exceeded the screening level for trivalent chromium (Cr[III]). The one sample that did not contain detectable chromium had a laboratory reporting limit that exceeded the screening level. Dissolved chromium was detected in 15 of the 24 analyzed samples. All detection and reporting limits for the non-detects exceeded the screening level for Cr(III).
- Hexavalent chromium (Cr[VI]) was detected in 2 of 24 analyzed; both samples were taken from near the shoreline. Both detections were below 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.

5.18 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.

Results from the groundwater and LNAPL analyses are included within the tables provided in Appendix B. Key findings include:

- In August 2017, samples collected from wells MW-3 and MW-4 had contained TPH-G above the screening level of 800 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-11, MW-14, MW-23, MW-24, MW-32, MW-36, MW-39, MW-40, MW-41, and MW-46 at concentrations exceeding the

screening level of 5 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-11, MW-23, MW-24, MW-36, MW-40, MW-41, and MW-46 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 in 26 of 32 analyzed samples. All detections exceeded the screening level for Cr(III). Laboratory reporting limits for the non-detect samples exceeded the screening level. Dissolved chromium was detected in 14 of the 32 analyzed samples. All detection and reporting limits for the non-detects exceeded the screening level for Cr(III).
- Cr(VI) was detected in 2 of 14 analyzed samples. Detections were below 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.

6 PREVIOUS REMEDIAL ACTIONS

This section describes remedial actions undertaken in the various areas of the Site.

6.1 Interim Remedial Actions

6.1.1 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).

6.1.2 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).

6.1.3 Area 3 – Former Underground Storage Tanks (USTs) 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.

6.2 Upland Cleanup Conducted Prior to Early Action Area (EAA) 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.

Figures from the interim action report (SoundEarth, 2013) are provided in Attachment D-7 of Appendix D. 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 6.5), soil corresponding to sample JF-SB3BA1-130906 was overexcavated.

6.3 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.

6.3.1 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.

6.3.2 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 2) 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.

6.3.3 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.

6.3.4 Replacement of Uncovered Storage Bins

Smaller uncovered storage bins that were used for production byproducts awaiting recycling were replaced with covered storage bins.

6.3.5 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.

6.3.6 Other Best Management Practices (BMPs)

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.

6.4 Jorgensen Forge Outfall Site (JFOS) 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.

6.4.1 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, May 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).

6.4.2 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).

6.4.3 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.

6.4.4 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).

6.5 Jorgensen Forge Early Action Area (EAA)

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 3H:1V 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. These activities and associated monitoring activities are described in a Supplemental EE/CA prepared by Farallon (2017).

7 PRELIMINARY CONCEPTUAL SITE MODEL (CSM)

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 17 presents the preliminary CSM using a flow chart and illustration.

7.1 Potential Primary Sources and Transport Mechanisms

As shown in Figure 17, the potential primary sources have been divided into four categories, including:

- Oil Storage Areas and Oil-Water Separators: These include 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 upgradient off-Site contaminant sources, such as Boeing Plant 2. The primary substances associated with Boeing Plant 2 include HVOCs and PCBs.
- 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 contribute metals, particulates, and petroleum hydrocarbons such as exposed material storage areas, exposed pavement and buildings, and interior production areas.

The primary potential transport mechanisms from the above sources include:

- Leaks, spills, and overflows from oil storage areas and oil-water separators.
- Groundwater flow transporting hazardous substances from off-Site sources.
- Leaks and spills from chemical storage and use areas and from maintenance areas.
- Stormwater flow and infiltration within 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).

7.2 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 be mobilized by wind or stormwater.

Operations did not occur near the LDW and generally occurred indoors such that wind transport is an incomplete pathway.

During rain events, stormwater ponds on the surface of the Site (western side of property) creating an intermittent pooled stormwater 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.

7.3 Exposure Mediums, Exposure Pathways, and Potential Receptors

The potential exposure mediums on the property include vapor, groundwater, intermittent pooled stormwater, and soil. Potential exposure mediums located off property include groundwater, surface water, groundwater seeps, soil which 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 7.1 and 7.2. Potential receptors may be exposed via direct contact, 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 17 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 future on-property human receptors may be exposed to hazardous substances by direct contact or incidental ingestion of LNAPL, groundwater, soil, or intermittent pooled stormwater; or by inhalation of vapor or soil. These pathways are considered complete. Groundwater and intermittent pooled stormwater 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 current and future workers who may be exposed to vapor from LNAPL via indoor air intrusion.

Current and future off-property ecological receptors (both benthic and aquatic species) may be exposed to hazardous substances via direct contact or ingestion of 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 or incidental ingestion of 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.

8 PRELIMINARY SCREENING LEVELS AND CHEMICALS OF POTENTIAL CONCERN (COPCs)

Ecology has developed a Preliminary Cleanup Level (PCUL) workbook (Ecology, 2019b) and Supplemental Information paper for the LDW (Ecology, 2018a). 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. Following completion of the remedial investigations, the PCUL document is intended to serve as a starting point for development of final, Site-specific CULs.

8.1 Screening Level Selection

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, 2018b). For this reason, soil and groundwater data collected at the Site have been screened against the most stringent PCULs 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 PCULs for saturated zone soils and non-potable groundwater.
- Groundwater data have been screened against the levels identified as the most stringent PCULs for non-potable water. With exception of iron, if no PCUL for non-potable water has been established, the most stringent PCUL for potable water is used. Because iron is known to be prevalent in groundwater in the area (Ecology, 2014a), the background concentration was 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.

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 screening levels and current laboratory methods are unable to achieve a level of detection low enough to meet the screening level.

The historical data was reviewed to determine if there are compounds, which were previously analyzed with RLs that exceeded the screening level which may warrant re-sampling because current methods can achieve or get significantly closer to screening levels. Typically, compounds with historical RLs above screening levels are the same compounds which current methods cannot achieve RLs below screening levels (for example, several PAHs). Though re-sampling could get closer to the screening level, targeted re-sampling is not warranted because the investigation proposed in Section 10 includes a robust sampling that is inclusive for these compounds.

Tables B-1 through B-11 of Appendix B present data collected during previous investigations completed at the Site. Within the tables, detected concentrations are shown in bold font. Detections that exceed their respective screening level are shaded with orange. Non-detect results with reporting or detection limits that exceed screening levels are shaded with blue. 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.

Appendix B also includes figures that have been generated to provide a visual representation of the data. Because a significant volume of data has been collected since Site investigations began in 1991, only COPCs are presented within the figures and discussed in the remaining sections of this document.

8.2 Chemicals of Potential Concern (COPCs) Evaluation

An evaluation was completed to identify COPCs (Table 5). The COPC evaluation included an initial detailed evaluation which was carried out separately for groundwater and soil followed by a final evaluation which resulted in a single merged list of COPCs for the Site, with some compounds retained only in portions of the Site (Table 5).

The initial evaluation considered the full lists of chemicals analyzed in groundwater and soil at the Site. Though grab groundwater samples tend to have high turbidity and contain particulates that increase the analyzed chemical concentration, the groundwater evaluation considered data from these samples along with samples taken from permanent wells. The initial evaluation is documented in Tables 6 and 7 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 follow key statistics are presented in Tables 6 and 7:

- 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 laboratory for the compound. The median RL was considered because it more accurately depicts the dataset as a whole (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 Analytical Resources, Inc.) 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:

- There is no screening level established for the chemical.
- The chemical was never detected, and the maximum RL is less than ten times the screening level.
  - Cases where there are only a few high RLs, but the median RL is less than ten times the screening level were handled on a chemical-specific basis.
  - Cases where historical RLs were high but more recent RLs are less than ten times the screening were handled on a chemical-specific basis.
- The chemical was never detected, and the median RL is less than twice the representative PQL.
- The maximum concentration (for detections) and maximum RL (for non-detects) was below the screening level.
- 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 detect (for detections) not more than twice the screening level
- Both of following criteria were true:
  - Maximum concentration for detections and maximum RL for non-detects is not more than twice the PCUL
  - 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. Following completion of the initial evaluations, the two lists were merged to create the summary list of COPCs (Table 5). During the final evaluation, several eliminated compounds were added back to the COPC list as described below:

- In general, if a compound is retained in one medium, it has been retained in both media. Manganese and iron are an exception to this rule. These compounds were eliminated as COPCs for soil during the initial evaluation. Though retained in groundwater, manganese and iron are known to be prevalent in groundwater in the area (Herman and Snider, 1998). For this reason, they have not been added back to the COPC list for soil.
- Total and dissolved metals have been grouped and both are retained if one (typically total) was retained during the initial evaluation.
- HVOCs, including TCE, tetrachloroethene (PCE), 1,1-dichloroethene (1,1-DCE), cis-1,2-DCE, and vinyl chloride, have been retained as a group.
- PCBs are another of the drivers for the LDW remediation. Though the initial evaluation would eliminate the group from Sitewide consideration, it has been retained as a Sitewide COPC.
- Some compounds were added back into the list if it was believed that insufficient data was available and there is reason to believe the compound may be of concern.

The proposed COPC list has been revised in accordance with Ecology comments (Ecology, 2019).

A figure has been generated for each COPC that has been analyzed at the Site in soil and/or groundwater. Soil data, groundwater data from permanent monitoring wells, and groundwater data from grab samples are presented on separate figures. Within the Appendix B figures, all available data is presented for each sampling location. The soil and grab groundwater figures present data with the depth that was sampled. 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.

9 CURRENT ENVIRONMENTAL CONDITIONS AND IDENTIFIED DATA GAPS

As described in Section 4, the Site has been divided into nine areas for the ease of the reader. The following sections include a discussion of environmental conditions within each area based on an analysis of the extensive prior investigation data and taking into account prior remedial activities. Data gaps identified during the analysis are also discussed, along with proposed investigations to address the data gaps. Vinyl chloride is a Sitewide contaminant believed to be attributed to an offsite source; though briefly mentioned where appropriate within Sections 9.1 through 9.9, vinyl chloride is discussed separately in greater detail within Section 9.10.

Appendix B includes tables that summarize all available historical soil and groundwater data. The appendix also includes figures that have been generated for analyzed COPCs to illustrate soil and groundwater data relative to screening levels. The tables and figures are referenced throughout the following sections. Proposed boring and monitoring well locations are shown in Figures 20A and 20B.

9.1 Area 1 – Hollowbore Area

Cutting oil is present within Area 1 soils and groundwater, and as an LNAPL plume on groundwater. No single feature has been identified as the source of this contamination; however, several features which may have contributed to the contamination are or historically were located within the area. These features include vaults and tanks associated with operation of the Hollowbore Area lathes, both inside the main building and outside to the north and northwest of the main building. 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.

Features within Area 1 are summarized in Table 3. In addition to the cutting oil-related features, Table 3 provides summaries for the heating oil UST located adjacent to the office building and the flammable lockers in the Shipping Area. Samples collected and analyzed within Area 1 are summarized in Exhibit 9-1: Summary of Area 1 Sample Analyses.

Exhibit 9-1: Summary of Area 1 Sample Analyses

	Sample Location	Matrix	TPH	BTEX	PCBs	PAHs	SVOCs	HVOCs	VOCs	Metals
	B-3	Soil	X	X						
	B-4	Soil	X	X						
*	DM-B-2	Soil	X							
	DM-B-3	Soil	X							
	DM-B-4	Soil	X							
	DM-B-5	Soil	X							
	FB-2	Soil	X	X						X
*	GP-08901	Water		X		X	X	X	X	X
*	GP-08902	Water		X		X	X	X	X	X
*	GP-08903	Water		X		X	X	X	X	X
*	GP-08904	Water		X		X	X	X	X	X
*	GP-08905	Water		X		X	X	X	X	X
	GP-08906	Water		X				X	X	X
	GP-08907	Water		X				X	X	X
*	GP-08908	Water		X				X	X	X
	GP-09106	Water		X				X	X	X
	HA1B	Soil	X							

	HA2	Soil	X							
	HA3	Soil	X							
	IB1	Soil	X							
	IB2	Soil	X							
	IB3	Soil	X							
	JSA-HA-1	Soil								X
	MW-1	Water	X				X			
	MW-16	Soil	X	X	X			X		
	MW-17	Soil	X							
	MW-18	Soil	X							
	MW-18	Water	X							
	MW-19	Soil	X		X					
	MW-20	Soil	X		X					
	MW-21	LNAPL			X					
	MW-21	Soil	X							
	MW-22	Soil	X							
	MW-22	Water	X	X			X	X	X	
*	MW-23	Soil	X							
*	MW-23	Water	X	X	X	X	X	X	X	X
*	MW-24	Soil	X	X			X	X		
*	MW-24	Water	X	X	X	X	X	X	X	X
	MW-25	Soil	X	X			X			
	MW-25	Water	X	X	X	X	X	X	X	X
	MW-27	LNAPL	X	X	X	X	X	X	X	X
	MW-30	Soil	X				X	X		
	MW-30	Water	X		X	X	X	X	X	X
	MW-48	Soil	X	X		X	X	X		
	MW-48	Water	X	X	X	X	X	X	X	X
*	MW-49	Water	X	X	X	X	X	X	X	X
	MW-9	Water	X	X		X	X	X		X
	OB2	Soil	X							
	OB3	Soil	X							
	OB4	Soil	X							
	OB5	Soil	X							
	OB6	Soil	X							
*	SB-08916	Soil		X	X			X		X
*	SB-08918	Soil		X		X	X	X		X
*	SB-08921	Soil		X				X		X
*	SB-08923	Soil		X				X		X
*	SB-09107	Soil	X							

NOTE:

* = Sample location is in an area overlapping with Area 9.

TPH and BTEX: As shown in Figure B-3A, TPH-O has been detected at concentrations above the screening level within soil samples taken from borings completed within the main building and outside to the north of the main building. Outside of the main building, elevated TPH-O was only measured within samples taken from depths of greater than approximately 5 feet bgs. Within the main building, shallow soil samples (1.5 to 2 feet bgs) also contained TPH-O at concentrations above screening levels, suggesting near-surface release points (potentially piping running to and from the lathes from the vaults). TPH-O was detected at concentrations exceeding the screening level within the deepest soil sample collected from several borings.

TPH-O was measured at a maximum concentration of 150,000 mg/kg, which was detected within a sample taken from 3 to 5 feet bgs from boring FB-2, located within the main building in the Hollowbore Area. Samples taken from depths of 5 to 5.5 feet bgs and 8 to

8.5 feet bgs from boring OB2, located outside to the north of the main building, contained TPH-O at concentrations of 120,000 and 110,000 mg/kg, respectively.

Groundwater samples are not collected from several Area 1 wells due to the accumulation of LNAPL within the wells. Area 1 wells MW-9, MW-23, MW-49, MW-24, MW-25, MW-48, and MW-30 have not contained LNAPL and have been sampled on several occasions. With the exception of well MW-48, the wells were sampled for TPH-D and TPH-O analysis in August 2017. Wells MW-9 and MW-30 were also sampled in February 2018. Groundwater samples taken from wells MW-23, MW-24, and MW-49, located north of the LNAPL plume in the upgradient direction, and the sample taken from MW-9, to the east of the LNAPL plume, did not contain detectable concentrations of TPH-D or TPH-O. The samples taken from MW-30, located within the Hollowbore Area and directly south of the LNAPL plume, contained TPH-D at concentrations of 665 and 702 µg/L, above the screening level of 500 µg/L. Well MW-31, located outside of Area 1 in the downgradient direction, contained elevated TPH-O at a concentration of 1,080 µg/L in August 2017. A sample taken from the well in February 2018 did not contain detectable TPH-O.

BTEX constituents have not been detected within Area 1 soil or groundwater.

LNAPL: Figure 18 shows the approximate cutting oil plume extent within Area 1. To show temporal changes over time, the figure includes the maximum measured LNAPL thicknesses within Area 1 in 1993, 1999, 2005, 2009, and 2017. Other than the appearance of LNAPL within well MW-22 beginning in 2005, the LNAPL plume has remained stable. In August 2017, LNAPL was observed within wells MW-16 through MW-21 and in MW-26 through MW-29 at thicknesses ranging from 0.1 to 9.5 feet. In February 2018, LNAPL was observed within the same wells at thicknesses ranging from 0.6 to 12.6 feet. MW-22 has historically contained LNAPL but could not be located for monitoring.

An LNAPL sample was collected from MW-27 in August 2017. The sample contained petroleum hydrocarbons within the oil range. PCBs were not detected within the sample; the PCB detection limit was elevated, likely due to the high concentrations of petroleum within the sample.

PCBs: As shown in Figures B-5A and B-5B, soil samples collected during installation of wells MW-16, MW-19, and MW-20 and groundwater samples taken from wells MW-49, MW-24, MW-25, and MW-30 have not contained detectable concentrations of PCB aroclors.

PAHs: With the exception of naphthalene (which is included in VOC analyses), soil samples collected from Area 1 have not been analyzed for PAHs except for samples taken from boring SB-08918, located at the northern property boundary. As shown in Figure B-19A, soil samples collected during installation of well MW-48 did not contain detectable concentrations of naphthalene. As shown in Figure B-17A, fluoranthene was detected within one sample taken from SB-08918 at just above the screening level. No other PAHs were detected above screening levels.

As shown in Tables B-6 and B-8, PAHs have not been detected above screening levels within groundwater samples taken from Area 1.

SVOCs: SVOC soil data within Area 1 is limited to samples collected from boring SB-08918, located at the northern property boundary and limited analysis performed on samples taken during installation of wells MW-24, MW-25, MW-30, and MW-48. Bis(2-ethylhexyl phthalate) (BEHP) was detected above screening levels within the 2 and 12.5 feet bgs samples taken from SB-08918 (Figure B-26A). No other SVOCs were detected above screening levels within Area 1 soil samples.

Area 1 wells have been sampled for SVOCs on several occasions. SVOCs have not been detected above screening levels within Area 1 wells, with the exception of a single BEHP detection within the sample taken from well MW-24 (Figure B-26B), located near the northern property boundary, in August 2017.

VOCs: As shown in Figures B-31A through B-36A, soil samples collected during installation of Area 1 wells MW-16, MW-24, MW-30, and MW-48 did not contain VOCs at concentrations above screening levels. Several VOCs, including cis-1,2-DCE, PCE, TCE, and vinyl chloride have been detected in soil samples taken along the northern property boundary. TCE and vinyl chloride were detected at concentrations above screening levels with TCE exceedances occurring in shallower (2 to 5 feet bgs) samples and vinyl chloride exceedances occurring in deeper (12.5 feet bgs) samples.

Several VOCs, including cis-1,2-DCE, PCE, TCE, and vinyl chloride, have been measured in groundwater samples taken from Area 1 wells. With the exception of vinyl chloride, VOCs detections within Area 1 wells have primarily occurred (i.e., have occurred more frequently or at higher concentrations) within wells MW-23 and MW-49, located along the northern property boundary. During the August 2017 and February 2018 sampling events, only TCE was detected above screening levels (within samples taken from well MW-49).

As shown in Figures B-32C and B-35C, cis-1,2-DCE and vinyl chloride were detected above screening levels within several grab groundwater samples collected in 1994 and 1995 within Area 1 to the north and west of the main building.

Metals: Soil sampling for metals analysis within Area 1 is limited to a soil sample taken from hand-auger boring JSA-HA-1 (adjacent to and north of the main building), samples taken FB-2 (within Hollowbore Area), and from samples taken from probes completed along the northern property boundary. Metals were not detected above screening levels within the samples taken from JSA-HA-1 and FB-2. Arsenic, barium, and vanadium were measured above screening levels within samples taken from the northern property boundary.

Groundwater samples have been collected from Area 1 wells MW-9, MW-23, MW-24, MW-25, MW-30, MW-48, and MW-49. Arsenic and manganese have been most frequently detected above screening levels. MW-9 has also contained copper at concentrations above screening levels. The dissolved metals in groundwater have been detected around the perimeter of the LNAPL plume and are likely attributable to mobilization due to increased pH associated with the degrading TPH.

As shown in Figures B-37C through B-51C, several metals were detected above screening levels within grab groundwater samples collected in 1994 and 1995 from Area 1 borings completed to the north and west of the main building. As mentioned in Section 8.2, the elevated concentrations may be attributed to higher turbidity associated with grab groundwater samples.

Summary and Data Gaps: Petroleum hydrocarbons, specifically TPH-D and TPH-O, are the primary COPCs within Area 1. The presence of LNAPL will drive investigation and remediation efforts. VOCs within soil and groundwater within Area 1 are likely associated with the offsite and upgradient Boeing Plant 2 facility.

The cutting oil plume within Area 1 has been monitored for approximately 25 years and has remained relatively stable throughout that time period. However, the groundwater monitoring well network and borings do not currently provide full lateral and vertical delineation of the LNAPL plume extent. Specifically, additional monitoring points are needed outside of the main building to provide delineation to the northwest, southwest, and north of the LNAPL plume; and within the building to the east and southeast. Prior to installing the monitoring wells, LNAPL and residual TPH delineation is needed to better define the extent of LNAPL within the subsurface.

The deepest soil samples taken from several borings within Area 1 contained TPH-O at concentrations above the screening level. During the LNAPL delineation, soil samples will be collected to demonstrate that vertical delineation has been achieved.

Though VOC groundwater data collected within Area 1 does not suggest a source within the area, no soil or groundwater samples have been collected from within the Shipping Area. Because solvents were historically used to clean products prior to shipment, soil samples should be collected from within the area to evaluate if historical practices contributed to VOC contamination within the vicinity.

Limited data have been collected for VOCs in groundwater within the LNAPL footprint. This is due to the impracticability of analyzing groundwater samples taken from wells with LNAPL. To provide additional information regarding VOCs in groundwater within this area, the wells to be completed outside and surrounding the Area 1 LNAPL plume (proposed wells MW-55 through MW-59) should be sampled for HVOCs analysis.

Borings completed adjacent to the heating oil UST for the office building did not contain detectable petroleum hydrocarbons. Though investigations into this feature appear adequate, the well to be completed to the north of the LNAPL plume has been located adjacent to this feature.

The location of the former cutting oil supply AST located to the northwest of the main building has not been sampled. Though not expected to be a source, the well to be completed to the northwest of the LNAPL plume has been located adjacent to this feature.

Several parameters are needed to support the remedial option analysis and design process. These include physical soil parameters such as grain size, heterogeneity, and vadose zone/saturated zone permeability; LNAPL transmissivity; and biodegradation indicators.

9.2 Area 2 – Oil-Water Separator and Decommissioned Diesel Storage Area

Area 2 includes several Site features that may have contributed to contamination within the area. These features primarily include vaults and hydraulic oil tanks used to operate equipment within the Forge Shop Area. Quench tanks, a steam tunnel (used to convey pipes), an oil-water separator, the Decommissioned Diesel Storage Area, and product lines are also located within Area 2. The features are summarized in Table 3. Samples collected and analyzed within Area 2 are summarized in Exhibit 9-2: Summary of Area 2 Sample Analyses.

Hydraulic oil and diesel are present within Area 2 soils and groundwater, and as a commingled LNAPL plume on groundwater. The hydraulic oil was identified in 1990 during the Dames & Moore limited Site characterization. The diesel contamination was identified in 1995, when diesel LNAPL was first noted in well MW-12. The hydraulic oil is believed to have been released to the subsurface when the oil-water separator was overfilled on several occasions. The source of diesel contamination is believed to be product lines that ran from the Decommissioned Diesel Storage Area, below the AHTB, to the main building.

Exhibit 9-2: Summary of Area 2 Sample Analyses

Sample Location	Matrix	TPH	BTEX	PCBs	PAHs	SVOCs	HVOCs	VOCs	Metals
B-1	Soil	X	X						
B-2	Soil	X	X						
DM-B-12	Soil	X							X
DM-B-13	Soil	X							
DM-B-14	Soil	X							
HA4	Soil	X							
MW-12	Soil	X							
MW-12	Water	X	X				X	X	
MW-13	Soil	X	X	X			X		X
MW-13	Water	X	X	X			X	X	X
MW-14	Soil	X							
MW-14	Water	X	X		X	X	X	X	X
MW-15	Soil	X							
MW-15	Water	X	X	X	X	X	X	X	X
MW-2	Water	X				X			
MW-32	Soil	X	X						
MW-32	Water	X	X	X	X	X	X	X	X
MW-33	Soil	X	X						
MW-33	Water	X							
MW-34	Water	X	X		X	X			X
MW-35	LNAPL	X	X	X	X	X	X	X	X
MW-35	Water	X							
MW-36	Water	X	X	X	X	X	X	X	X
MW-37	Soil	X	X		X	X	X		X
MW-37	Water	X	X		X	X	X	X	X
MW-7	Water	X	X	X	X	X	X	X	X
P-1	Soil	X							
P-2	Soil	X							
P-3	Soil	X							
P-4	Soil	X							
P-7	Soil	X							
SB-1	Soil	X	X						
SB-10	Soil	X	X						
SB-11	Soil	X	X						
SB-12	Soil	X	X						
SB-2	Soil	X	X						
SB-3	Soil	X	X						
SB-4	Soil	X	X						
SB-5	Soil	X	X						
SB-6	Soil	X	X						
SB-7	Soil	X	X						
SB-8	Soil	X	X						
SB-9	Soil	X	X						
B-1	Soil	X	X						
B-2	Soil	X	X						
DM-B-12	Soil	X							X
DM-B-13	Soil	X							
DM-B-14	Soil	X							
HA4	Soil	X							
MW-12	Soil	X							
MW-12	Water	X	X				X	X	
MW-13	Soil	X	X	X			X		X
MW-13	Water	X	X	X			X	X	X
MW-14	Soil	X							
MW-14	Water	X	X		X	X	X	X	X
MW-15	Soil	X							
MW-15	Water	X	X	X	X	X	X	X	X

TPH and BTEX: TPH-O and TPH-D were detected within Area 2 soils, primarily within the area located between the main building and the AHTB. TPH-O was detected above screening levels within three Area 2 soil samples collected from between 7 and 8.5 feet bgs. TPH-D was detected above screening levels within several borings within samples taken from between 7 and 10 feet bgs. A silt layer was noted within boring logs within the vicinity at a depth of approximately 10 feet bgs. It is believed that the layer has acted to impede downward migration of contamination.

As shown in Figures B-2B and B-3B, TPH-D and TPH-O has been detected within Area 2 wells. BTEX constituents are not typically detected. TPH-O groundwater impacts have occasionally been detected in cross-gradient well MW-32, but have not been observed in downgradient wells.. Groundwater samples taken from wells MW-36, MW-40, and MW-41 in February 2018 contained TPH-D at concentrations exceeding screening levels, suggesting that the dissolved phase TPH-D contamination may be expanding in the downgradient direction. Well MW-37 has not been sampled for TPH-D analysis since 2009. Groundwater samples taken from well MW-14, located in the upgradient direction, have historically contained TPH-D and TPH-O at concentrations above screening levels. It is unclear if the impacts at well MW-14 are associated with Area 2 contaminative sources, or if the contamination present within the well is associated with Area 4 contamination.

Samples collected from an unknown depth during installation of former well MW-33, located within the LNAPL plume adjacent to the truck scale reportedly contained TPH-G at 9,400 mg/kg. No other soil samples within the area have contained TPH-G above screening levels. Groundwater samples collected in 2000 from well MW-34, downgradient of well MW-33, contained TPH-G at concentrations above the screening level (as high as 1,700 μg/L). The TPH-G concentrations within samples taken from MW-34 decreased during subsequent events. TPH-G was not detected within samples taken from the well in 2018. The source of the TPH-G detections is unknown. From the groundwater trends observed, it appears that the TPH-G impacts have attenuated.

LNAPL: A commingled LNAPL plume, consisting of hydraulic oil and diesel, is present within Area 2. Figure 19 shows the approximate LNAPL plume extent. To show temporal changes over time, the figure includes the maximum measured LNAPL thicknesses within Area 2 in 1993, 1999, 2005, 2009, and 2017. Other than the brief appearance of LNAPL within well MW-34 in 2009, the LNAPL plume has remained stable. In August 2017 and February 2018, LNAPL was observed within well MW-35 at thicknesses of 6.9 and 8.6 feet, respectively. No LNAPL was observed within well MW-34.

An LNAPL sample was collected from MW-35 in August 2017. Results from the analyses are provided in Appendix B. The sample contained petroleum hydrocarbons within both the diesel and oil ranges.

PCBs: As shown in Figures B-5A and B-5B, PCB aroclors have not been detected within Area 2 soil or groundwater. The LNAPL sample collected from well MW-35 in August 2017 did not contain detectable PCB aroclors.

PAHs: With the exception of naphthalene, soil samples within Area 2 have not been analyzed for PAHs. Naphthalene was not detected within soil samples taken during installation of well MW-37. Groundwater samples taken from wells within Area 2 have been analyzed for PAHs. Acenaphthene was detected above screening levels within samples taken from well MW-37 in 2009. Samples collected from the well in August 2017 and February 2018 did not contain acenaphthene at concentrations above screening levels. No other PAHs have been detected above screening levels within Area 2 groundwater.

SVOCs: Groundwater samples collected from Area 2 wells have been analyzed for SVOCs. BEHP was detected above screening levels within samples taken from wells MW-14 and MW-32 in August 2017. Samples taken from the same wells in February 2018 did not contain detectable BEHP. No other SVOCs have been detected above screening levels within Area 2 wells.

VOCs: Soil samples collected during installation of wells MW-13 and MW-37 were analyzed for VOCs. As shown in Figure B-34A, TCE was detected within a 15.5 feet bgs soil sample collected from the boring for MW-37 (southern property boundary) at a concentration of 0.001 mg/kg, above the screening level of 0.00027 mg/kg. No other VOCs were detected above screening levels within Area 2 soil samples. Groundwater samples collected from Area 2 wells have been analyzed for VOCs. Vinyl chloride was detected within a groundwater sample collected from MW-37 in 2009 at concentrations exceeding the screening level. The sample collected from MW-37 in 2017 did not contain detectable concentrations of vinyl chloride. No other VOCs have been detected above screening levels within Area 2 wells.

Metals: Barium, copper, nickel, lead, and zinc were detected above screening levels within samples taken from the boring for well MW-37 (southern property boundary). Within the boring, metals exceedances were less prevalent within the sample taken from 15.5 feet bgs, which only contained barium and nickel at concentrations above the screening level. Barium and cadmium were detected above screening levels within a soil sample taken from a depth of 13.5 feet bgs within the vicinity of the oil-water separator. No other metals were detected above screening levels within Area 2 soil samples.

Groundwater samples collected from Area 2 wells have been analyzed for metals with arsenic and manganese most frequently detected above screening levels. Copper and nickel were detected above screening levels within samples collected from MW-37. Cobalt was detected with samples collected from well MW-15 in 2017 and 2018.

Summary and Data Gaps: Petroleum hydrocarbons, specifically TPH-D and TPH-O, are the primary potential COCs within Area 2. The presence of LNAPL will drive investigation and remediation efforts.

The hydraulic oil and diesel LNAPL plume within Area 2 has been monitored for over 25 years without indication that the plume is expanding. However, the groundwater monitoring network and borings do not provide adequate lateral and vertical delineation. Though MW-36 provides delineation to the southwest within the main building, well MW-35 contained over 6 feet of LNAPL in August 2017. Delineation is needed to the west and northwest of the LNAPL plume within the main building. Though lateral delineation in outside areas is achieved with wells MW-14, MW-15, and MW-32, the eastern edge of the LNAPL plume is not well understood. LNAPL delineation is needed to better define the extent of LNAPL within the subsurface. A monitoring well is needed upgradient of the LNAPL plume to the west of the Decommissioned Diesel Storage Area tanks.

Though the historical groundwater data show that the dissolved-phase TPH-D and TPH-O contamination may not have been delineated between Areas 2 and 4 (to the north), concentrations measured within samples taken from well MW-14, located in the upgradient direction, in August 2017 and February 2018 did not contain TPH-D and TPH-O at concentrations above screening levels. An additional monitoring well is not warranted in this area. Dissolved-phase TPH-D has been detected above screening levels in downgradient wells MW-40 and MW-41. Additional downgradient monitoring wells are needed to delineate the dissolved-phase plume.

Though the TPH-G impacts noted in soil at MW-33 and groundwater at MW-34 appear to have attenuated, select soil and groundwater samples from this area should be analyzed for TPH-G to confirm that this has attenuated.

Additional soil sampling should be completed to evaluate for releases associated with the Decommissioned Diesel Storage Area tanks and fill ports and an upgradient monitoring well is needed to the east of the tanks.

No investigation points have been completed adjacent to the Ring Expander Vault; groundwater infiltration was noted to occur within the vault. A monitoring well should be completed adjacent to this feature.

Several parameters are needed to support the remedial option analysis and design process. These include physical soil parameters such as grain size, heterogeneity, and vadose zone/saturated zone permeability; LNAPL transmissivity; and biodegradation indicators.

9.3 Area 3 – Former Underground Storage Tank (UST) Area

Area 3 soil and groundwater was found to be impacted by TPH-G and BTEX following removal of three USTs in 1991. Samples collected and analyzed within Area 3 are summarized in Exhibit 9-3: Summary of Area 3 Sample Analyses.

Exhibit 9-3: Summary of Area 3 Sample Analyses

Sample Location	Matrix	TPH	BTEX	PCBs	PAHs	SVOCs	HVOCs	VOCs	Metals
DM-B-6	Soil	X	X						
DM-B-7	Soil	X	X						
T1-1	Soil	X	X						
T1-2	Soil	X	X						
T1-3	Soil	X	X						
T2-10	Soil	X	X						X
T2-11	Soil	X	X						
T2-12	Soil	X	X						
T2-13	Soil	X	X						
T2-4	Soil	X	X						
T3-14	Soil	X	X						
T3-15	Soil	X	X						
T3-16	Soil	X	X						
T3-17	Soil	X	X						
T3-8	Soil	X	X						
MW-3	Water	X	X		X	X			X
MW-4	Water	X	X		X	X			X
MW-8	Water	X	X		X	X	X	X	X

TPH and BTEX: When the USTs were removed, TPH-G and TPH-O were detected within excavation confirmation samples at maximum concentrations of 1,500 and 960 mg/kg, respectively, exceeding the screening levels. BTEX constituents were also detected within some of the excavation samples at concentrations above screening levels.

Wells MW-3 and MW-4 are located adjacent to the UST excavations and wells MW-8 and MW-11 are located downgradient to the west-southwest and southwest. Well MW-11 has never contained TPH-G or BTEX at concentrations above screening levels. Wells MW-3, MW-4, and MW-8 contained TPH-G and BTEX at concentrations above screening levels in 1991 and 1993, with a maximum TPH-G concentration of 59,000 µg/L. TPH-G and BTEX concentrations dropped to below laboratory reporting limits following remediation and remained below reporting limits through 2008.

During the August 2017 sampling event, groundwater samples taken from wells MW-3 and MW-4 contained TPH-G at concentrations of 1,300 and 2,640 µg/L, respectively, exceeding the screening level of 800 µg/L. Benzene was also detected within the samples at low concentrations. The sample taken from well MW-8 did not contain detectable TPH-G or benzene. Samples collected from Area 3 wells in February 2018 did not contain TPH-G or benzene at concentrations above screening levels.

PAHs: PAHs have not been detected within groundwater samples collected from wells MW-3, MW-4, and MW-8 at concentrations above screening levels.

SVOCs: SVOCs were not detected above screening levels within groundwater samples collected from Area 3 wells MW-3, MW-4, and MW-8.

VOCs: VOCs have not been detected at concentrations exceeding screening levels within well MW-8.

Metals: Groundwater samples taken from MW-8 in 2008 and 2009 contained dissolved arsenic above screening levels. The dissolved arsenic may be associated with pH fluctuation associated with degradation of TPH. The sample taken from the well in February 2018, did not contain arsenic above screening levels.

Summary and Data Gaps: TPH-G and BTEX are the COPCs within Area 3. The USTs and the majority of contaminated soil were removed and remedial activities undertaken in the 1990s. Ecology provided a no further action letter for this area in March 2017. The TPH-G measured in Area 3 wells MW-3 and MW-4 in August 2017 may be indicative of rebound; however, the same wells did not contain elevated TPH-G in February 2018. Additional groundwater sampling should be completed to evaluate trends within Area 3 wells. Limited soil sampling should be completed to confirm that TPH-G is no longer present above screening levels.

Soil and groundwater samples from Area 3 were not analyze for methyl tert-butyl ether (MTBE). Groundwater samples collected from Area 3 wells should be analyzed for MTBE.

9.4 Area 4 – Decommissioned Oil Storage Area

Area 4 includes the Decommissioned Diesel Storage Area, which includes ten 15,000-gallon USTs, which were used to store heating oil and diesel fuel. Following tank tightness testing, all but the southernmost UST were closed in place. The southernmost UST was repurposed as a settling tank within what became the Oil Recovery Area. In addition to the Decommissioned Diesel Storage Area-related features, Area 4 includes the oil house to the east of the main building. Features within Area 4 are summarized in Table 3. Samples collected and analyzed within Area 4 are summarized in Exhibit 9-4.

Exhibit 9-4: Summary of Area 4 Samples Analyses

Sample Location	Matrix	TPH	BTEX	PCBs	PAHs	SVOCs	HVOCs	VOCs	Metals
4SB2	Soil	X	X						
4SB3	Soil	X							
4SB4	Soil	X	X						
DM-B-10	Soil	X							
DM-B-11	Soil	X							
DM-B-9	Soil	X							
MW-10	Soil	X							
MW-10	Water	X	X		X	X			X
MW-11	Water	X	X		X	X	X	X	X
MW-11	Water	X							X
SB9	Soil	X							

TPH and BTEX: Limited TPH-O impacts to soil were identified within Area 4; specifically, TPH-O at a concentration of 14,000 mg/kg was detected within a boring completed to the west of the Decommissioned Oil Storage Area (SB9). The detection was measured in the sample taken from between 8 and 8.7 feet bgs. A sample taken from between 10 and 11 feet bgs did not contain detectable petroleum hydrocarbons. Several additional borings were completed to investigate the area. Only one other boring within the area contained detectable TPH-O, at a concentration of 34 mg/kg. Soil impacts within Area 4 appeared to be limited in extent, both laterally and vertically.

Prior to its decommissioning in 2017, well MW-10 was located within Area 4 in the vicinity of boring SB9. The well was sampled on several occasions between 1992 and 2008. As shown in Figure B-2B, TPH-D was detected above screening levels with higher concentrations measured in the mid-2000s than were observed in the 1990s. As shown in Figure B-3B, TPH-O was not measured within samples taken from well MW-10 between 1992 and 2001. Samples collected between 2005 and 2008 contained TPH-O at concentrations above the screening level, with a maximum measured concentration of 18,100 µg/L.

Well MW-11 is located adjacent to and east of the Decommissioned Oil Storage Area. As shown in Figures B-2B and B-3B, TPH-D and TPH-O were measured above screening levels within samples taken from well MW-11. Concentrations within well MW-11 have decreased since sampling began in 1992. The sample taken from Well MW-11 in August 2017 contained both TPH-D and TPH-O at concentrations of 971 and 573 µg/L, respectively, exceeding screening levels. The sample collected from the well in February 2018 contained TPH-D at 476 µg/L, below the screening level. The sample did not contain detectable TPH-O. The source of contamination at this location is unknown but may be associated with the adjacent Decommissioned Oil Storage Area tanks.

BTEX constituents have not been detected above screening levels within Area 4 wells.

PAHs: Groundwater samples collected from Area 4 wells MW-10 and MW-11 have been analyzed for PAHs. A groundwater sample collected from MW-10 in 2008 contained benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene at concentrations exceeding screening levels. Groundwater samples collected from MW-11 did not contain PAHs at concentrations exceeding screening levels.

SVOCs: Groundwater samples collected from Area 4 wells MW-10 and MW-11 have been analyzed for SVOCs. The sample collected from MW-10 in 2008 contained BEHP at concentrations above the screening level. No other SVOCs were detected above screening levels within Area 4 groundwater samples.

VOCs: VOCs were not detected above screening levels within a groundwater sample collected from well MW-11 in 2009.

Metals: Groundwater samples collected from Area 4 wells MW-10 and MW-11 have been analyzed for metals. No metals were detected within the sample taken from well MW-10. As shown in Figures B-42B and B-45B, copper, and manganese have been detected above screening levels within samples taken from MW-11. No other metals were detected above screening levels.

Summary and Data Gaps: TPH-D, TPH-O, and PAHs are the primary COPCs within Area 4. Soil sampling completed within Area 4 in the 1990s identified very limited petroleum hydrocarbon soil impacts. TPH-D and TPH-O have been detected within Area 4 wells MW-10 and MW-11, with increasing concentrations measured in well MW-10 in the mid-2000s. Well MW-10 should be replaced to provide ongoing monitoring within Area 4. An additional monitoring well should be completed within the main building (in Area 5) downgradient of well MW-10.

Additional soil sampling should be completed to evaluate for releases associated with the Decommissioned Oil Storage Area tanks. As mentioned in Section 9.2, though the historical groundwater data show that the dissolved-phase TPH-D and TPH-O contamination may not have been delineated between Areas 2 (to the south) and 4, concentrations measured within samples taken from well MW-14 in August 2017 and February 2018 did not contain TPH-D and TPH-O at concentrations above screening levels. An additional monitoring well is not warranted in this area.

9.5 Area 5 – Remaining Building Interior Area

Site features within Area 5 are described in Section 4.5 and summarized in Table 3. Area 5 is downgradient of Areas 1, 2, 3, and 4. The area encompasses interior building areas that are not included within other Areas 1, 2, 4, or 7. Limited sampling has been conducted within Area 5. Data has been collected from two monitoring wells (MW-40 and MW-41) that are co-located and two borings (FB-1 and FB-3). Samples collected and analyzed within Area 5 are summarized in Exhibit 9-5: Summary of Area 5 Sample Analyses.

Exhibit 9-5: Summary of Area 5 Sample Analyses

Sample Location	Matrix	TPH	BTEX	PCBs	PAHs	SVOCs	HVOCs	VOCs	Metals
MW-41	Soil	X	X		X	X			X
MW-41	Water	X	X	X	X	X	X	X	X
MW-40	Water	X	X		X	X	X	X	X
FB-3	Soil	X	X						X
FB-1	Soil	X							X

TPH and BTEX: Petroleum hydrocarbons and BTEX were not detected within soil samples collected during installation of well MW-41 (screened from 30 to 40 feet bgs), completed to the west of Area 2. As shown in Figures B-2B and B-3B, groundwater samples taken from wells MW-40 and MW-41 in 2009 did not contain detectable concentrations of TPH-D or TPH-O. A sample taken from well MW-41 in August 2017 contained TPH-D at 227 μg/L, below the screening level. Samples collected from MW-40 and MW-41 in February 2018 contained TPH-D at concentrations of 1,600 and 760 μg/L, respectively, above the screening level of 500 μg/L. TPH-O was also detected within the February 2018 sample taken from well MW-41 at 208 μg/L.

In 2007, a boring (FB-3) was completed in the northern portion of Area 5 at the approximate location of the Bueltman bar peeler oil-return vault (completed prior to the bar peeler installation) to the west of Area 4 and south of Area 1. A sample taken from a depth of 3 to 5 feet bgs from boring FB-3 contained TPH-O at a concentration of 140,000 mg/kg. The source of this contamination is not known and was not investigated at the time.

PAHs: PAHs were not detected above screening levels within soil samples collected during installation of well MW-41. Groundwater samples collected from wells MW-40 and MW-41 have not contained PAHs at concentrations exceeding screening levels.

SVOCs: As shown in Figure B-26A, BEHP was detected above screening levels within samples collected during installation of well MW-41 from depths of 10 and 20 feet bgs. No other SVOCs were detected above screening levels. As shown in Figure B-26B, BEHP was detected within the groundwater sample collected from MW-41 in August 2017. The sample collected from the same well in February 2018 did not contain any detectable SVOCs.

VOCs: As shown in Figure B-35B, vinyl chloride has been detected above the screening level within groundwater samples collected from wells MW-40 and MW-41. No other VOCs have been detected above screening levels. No soil samples taken from Area 5 have been analyzed for VOCs.

Metals: All soil samples collected during installation of well MW-41 contained barium above the screening level. Nickel was detected above the screening level within the sample taken from the 6 to 15 feet bgs depth interval. No other metals were detected above screening levels. Groundwater samples collected from wells MW-40 and MW-41 have contained arsenic and manganese at concentrations above screening levels. No other metals were detected above screening levels.

Summary and Data Gaps: No soil samples have been collected in the vicinity of the Q1/Q2/Q3 vault. A soil boring is proposed to be completed adjacent to the vault. Samples collected from the boring will be analyzed for TPH-D, TPH-O, BTEX, HVOCs, PAHs, PCB aroclors, and metals.

The recent TPH-D detections within samples collected from wells MW-40 and MW-41 suggest that dissolved-phase TPH-D may be migrating from Area 2. Two additional wells (shallow and deep) are proposed to provide better delineation of the dissolved-phase TPH-D.

Vinyl chloride has been detected above screening levels within wells MW-40 and MW-41. No potential on-site HVOC sources have been identified, except for within the Shipping Area located in Area 1. Groundwater sampling within Area 5 will include HVOCs analysis to better understand the distribution within the area. Sitewide HVOC groundwater assessment is discussed in Section 9.10.

The source of contamination encountered within boring FB-3 is unknown. Additional investigation within the vicinity is proposed to be completed using direct-push drilling methods that produce continuous soil cores.

A boring should be completed adjacent to and west of the Large Bullard vault to investigate the seep observed during clean closure activities. A second boring should be completed to the west of the Large Bullard vault (within Area 4), between the vault and nearby Site features (these features include transformers and the oil house).

Limited sampling has been completed in Area 5. Additional soil sampling and an additional monitoring well are needed to provide better spatial coverage within the area.

9.6 Area 6 – Former Bethlehem Steel Facility

As summarized in Table 3, Area 6 includes the location of the Former Bethlehem Steel Distribution Facility and more recent Site features including the Former Etch House and Acid Pit, the Melt Bag House, the covered metal chip storage area, the Former Steam Clean Area and associated former oil-water separator, a former gasoline AST. Samples collected and analyzed within Area 6 are summarized in Exhibit 9-6: Summary of Area 6 Sample Analyses.

Exhibit 9-6: Summary of Area 6 Sample Analyses

	Sample Location	Matrix	TPH	BTEX	PCBs	PAHs	SVOCs	HVOCs	VOCs	Metals
*	DM-B-15	Soil								x
*	DM-B-16	Soil								x
*	GP-06635	Water		X				x	x	
	GP-06640	Water		X				x	x	x
	GP-09104	Water		X				x	x	x
	GP-09105	Water		X				x	x	x
	GP-09107	Water		X				x	x	x
	GP-09108	Water		X				x	x	x
	GP-09109	Water		X				x	x	x
	GP-09110	Water		X				x	x	x
	GP-09111	Water		X				x	x	x
	GP-09112	Water		X				x	x	x
*	GP-09113	Water		X				x	x	x
*	GP-09114	Water		X				x	x	x
*	GP-09115	Water		X				x	x	x
	MW-31	Soil	x				x	x		
	MW-31	Water	x	x	x	x	x	x	x	x
*	MW-38	Soil	x	x						x
*	MW-38	Water	x	x		x	x	x	x	x
	MW-45	Soil	x	x						x
	MW-45	Water	x	x	x	x	x	x	x	x
	MW-46	Soil	x	x		x	x	x		
	MW-46	Water	x	x		x	x	x	x	x
*	MW-6	Water	x	x	x	x	x	x	x	x
*	SB-13	Soil								x
*	SB-13	Water								x
*	SB-14	Soil								x
*	SB-14	Water								x
*	SB-15	Soil								x
*	SB-15	Water								x
*	SB-16	Soil								x
*	SB-16	Water								x
*	SB-17	Soil								x
*	SB-18	Soil								x
*	SB-19	Soil								x

NOTE:
* = Sample location is in an area overlapping with Area 8.

TPH and BTEX: Soil samples collected during installation of wells MW-45 and MW-46 did not contain TPH or BTEX above screening levels. Groundwater samples collected from well MW-31 (downgradient of Area 1 LNAPL plume) have contained TPH-D and TPH-O at concentrations above screening levels. Samples collected from MW-46 (adjacent to Former Steam Clean Area and Former Oil-Water Separator) in August 2017 and February 2018 contained TPH-D and TPH-O at concentrations above screening levels. In 1994 and 1995, several grab groundwater samples taken from the northern end of Area 6 (from a depth of 25 feet bgs) contained benzene at concentrations up to 7.2 µg/L (Figure B-4C). Benzene was not detected (or not detected above the screening level), within grab groundwater samples taken from borings completed to the south (within the center of Area 6).

PCBs: Groundwater samples collected from Area 6 wells MW-6 and MW-31 have been analyzed for PCBs. Samples collected from well MW-31 have not contained detectable PCB aroclors. A sample collected from MW-6 (located within the southwest corner of Area 6 and within the embayment) contained PCB aroclors above screening levels in 2003. However, the sample was reported to be a false detection (Farallon and Anchor, 2006). Samples collected in August 2017 from well MW-6 did not contain PCB aroclors; low levels of PCB congeners were detected.

PAHs: Soil samples collected during installation of well MW-46 contained naphthalene at concentrations above screening levels within samples collected from depths of 10.5 and 16.5 feet bgs. Groundwater samples taken from Area 6 wells MW-6, MW-31, and MW-46 have been analyzed for PAHs. Acenaphthene, fluorene, and naphthalene were detected above screening levels within samples taken from MW-46 in 2009. Acenaphthene was also detected above screening levels within a sample collected from MW-31 in 2008. Samples collected from the three wells in August 2017 did not contain PAHs above screening levels. Naphthalene was detected above screening levels within the sample taken from MW-46 in February 2018.

SVOCs: Soil samples taken during installation of wells MW-31 and MW-46 did not contain detectable chlorinated benzenes. Groundwater samples taken from wells MW-6, MW-31, and MW-46 have been analyzed for SVOCs. BEHP was detected above the screening level within the sample taken from MW-31 in August 2017. No other SVOCs have been detected above screening levels.

VOCs: Soil samples collected during the installation of well MW-46 did not contain VOCs at concentrations exceeding screening levels. Vinyl chloride has been detected within samples collected from wells MW-31, MW-45, and MW-46 (Figure B-35B) and within grab groundwater samples collected in 1994 and 1995 (Figure B-35C). These vinyl chloride detections are discussed further in Section 9.10.

Metals: Surface samples collected along the western end of Area 6 contained chromium, manganese, and cadmium at concentrations exceeding screening levels. Samples collected from within the 6 to 15 feet bgs interval within borings completed along the western end of Area 6 (near the melt bag house and within the embayment area) contained barium, chromium, copper, lead, nickel, zinc, and cadmium at concentrations above screening levels.

Shallower (0 to 6 feet bgs) and deeper (greater than 15 feet bgs) samples collected from the western borings contained only barium at concentrations above screening levels. Barium was also detected above screening levels within soil samples collected during installation of well MW-45 (eastern end of Area 6).

Groundwater samples from Area 6 wells have contained total and dissolved arsenic, copper, and manganese at concentrations above screening levels; with arsenic detected most frequently. As shown in Figures B-37C through B-51C, several metals were detected above screening levels within grab groundwater samples collected in 1994 and 1995 from Area 6 borings. As mentioned in Section 8.2, the elevated concentrations may be attributed to higher turbidity associated with grab groundwater samples.

Summary and Data Gaps: Contaminants may be present in association with the former oil-water separator and former steam clean area (TPH-D and TPH-O), with the embayment fill along the western end of Area 6 (metals and PCBs), and with VOC-impacted groundwater associated with the offsite upgradient Boeing Plant 2 facility. While some sampling has been completed within Area 6, additional sampling points will provide a better spatial distribution of data.

9.7 Area 7 – Former Metals Storage Area

Area 7 includes the Former Melt Shop Area of the main building and the Former Metals Storage Area. Features within Area 7 are described in Table 3. Samples collected and analyzed are summarized in Exhibit 9-7: Summary of Area 7 Sample Analyses.

Exhibit 9-7: Summary of Area 7 Sample Analyses

	Sample Location	Matrix	TPH	BTEX	PCBs	PAHs	SVOCs	HVOCs	VOCs	Metals
*	MW-39	Soil	X	X						X
*	MW-39	Water	X	X	X	X	X	X	X	X
*	MW-42	Water	X	X	X	X	X	X	X	X
*	MW-43	Water	X	X	X	X	X	X	X	X
*	MW-44	Soil	X	X						X
*	MW-44	Water	X	X	X	X	X	X	X	X
*	SB6	Soil			X					X
*	SB7	Soil			X					X

NOTE:

* = Sample location is in an area overlapping with Area 8.

Soil and groundwater data within Area 7 include surface samples collected within the central portion of the area (only analyzed for metals), a well installed within the southeastern corner of the area (MW-38), and four wells and two borings installed on the bank at the western end of the area (MW-39, MW-42, MW-43, MW-44, SB6, and SB7).

TPH and BTEX: Soil samples collected during installation of wells MW-38, MW-39, and MW-44 and groundwater samples collected from the wells have not contained TPH or BTEX at concentrations above screening levels. Storage of scrap, including cutting oil-coated scrap, was historically completed in outside areas to the south of the Former Melt Shop.

PCBs: PCB data within Area 7 were collected at the western end of the area. PCB aroclors were detected within all soil samples collected from borings SB6 and SB7 (on the bank behind the bulkhead) at concentrations ranging from 0.0976 to 1.62 mg/kg, above the screening level. Groundwater samples collected from wells MW-39 and MW-42 in August 2017 did not contain detectable PCB aroclors.

PAHs, SVOCs, and VOCs: Groundwater samples collected from wells MW-38, MW-39, and MW-42 have not contained PAHs, SVOCs, or VOCs at concentrations above screening levels. Samples collected from well MW-43 (screened from 30 to 40 feet bgs) have consistently contained vinyl chloride above screening levels. Vinyl chloride is discussed further in Section 9.10.

Metals: Surface samples collected within Area 7 contained chromium, lead, mercury, silver, cadmium, and selenium at concentrations above screening levels. Subsurface soil data within Area 7 include locations along the western end of the area (near the shore) and soil samples collected during installation of well MW-38, at the southeastern corner of the area. Several metals, including arsenic, barium, chromium, copper, lead, nickel, silver, and zinc were detected above screening levels within the 0 to 6 feet bgs and 6 to 15 feet bgs depth intervals within samples collected at the western end of Area 6. Samples collected during installation of well MW-38 (southeastern corner of Area 7) from within the 6 to 15 feet bgs interval contained barium, chromium, copper, lead, nickel, and zinc above screening levels. Shallower and deeper samples collected from the boring only contained barium above screening levels. Arsenic, barium, chromium, and manganese have been detected above screening levels within groundwater samples collected within Area 7.

Summary and Data Gaps: Potential COCs within Area 7 include PCBs behind the bulkhead and metals within the western end of the area (near shoreline in area of overlap with Area 8) and metals below the pavement within the remaining portion of the area.

There is no evidence that the unpaved slag and metal chips storage areas in the southwest corner of the Site were sampled following their respective 2013 and 2015 closures. Surface soil samples taken from the Former Metals Area in 1990 contained cadmium, chromium, lead, mercury, selenium, and silver at concentrations exceeding screening levels. Additional sampling should be completed to determine if metals are present at elevated concentrations within the subsurface soils of Area 7. Samples collected within this area should also be analyzed for TPH-D and TPH-O. Investigation locations should be placed to provide spatial coverage and to assess specific features, such as the Arc Furnace hydraulic oil tanks and the unpaved storage areas.

9.8 Area 8 – Shoreline and Former Embayment

Features within Area 8 are summarized in Table 3. Samples collected and analyzed are listed in Exhibit 9-8: Summary of Area 8 Sample Analyses.

Exhibit 9-8: Summary of Area 8 Sample Analyses

	Sample Location	Matrix	TPH	BTEX	PCBs	PAHs	SVOCs	HVOCs	VOCs	Metals
*	DM-B-15	Soil								X
*	DM-B-16	Soil								X
*	GP-06635	Water		X				X	X	
*	GP-09113	Water		X				X	X	X
*	GP-09114	Water		X				X	X	X
*	GP-09115	Water		X				X	X	X
	JF-SB3BA1-6	Soil			X	X	X			X
	JF-SB3BA2-6	Soil			X					X
	JF-SB3ESW-6	Soil			X					X
	JF-SB3NSW-6	Soil			X	X	X			X
	JF-SB4BA1-9	Soil			X					X
	JF-SB4BA2-9	Soil			X	X	X			X
	JF-SB4BA3-9	Soil			X					X
	JF-SB4ESW-9	Soil			X					X
	JF-SB4NSW-9	Soil			X	X	X			X
	JF-SB4SSW-9	Soil			X					X
*	MW-38	Soil	X	X						X
*	MW-38	Water	X	X		X	X	X	X	X
**	MW-39	Soil	X	X						X
**	MW-39	Water	X	X	X	X	X	X	X	X
**	MW-42	Water	X	X	X	X	X	X	X	X
**	MW-43	Water	X	X	X	X	X	X	X	X
**	MW-44	Soil	X	X						X
**	MW-44	Water	X	X	X	X	X	X	X	X
	MW-47	Water	X	X	X	X	X	X	X	X
*	MW-6	Water	X	X	X	X	X	X	X	X
	PL2-JF03A	Water		X	X			X	X	X
*	SB-13	Soil								X
*	SB-13	Water								X
*	SB-14	Soil								X
*	SB-14	Water								X
*	SB-15	Soil								X
*	SB-15	Water								X
*	SB-16	Soil								X
*	SB-16	Water								X
*	SB-17	Soil								X
*	SB-18	Soil								X
*	SB-19	Soil								X
	SB2	Soil			X					X
	SB3	Soil			X					X
	SB4	Soil			X					X
	SB5	Soil			X					X
**	SB6	Soil			X					X
**	SB7	Soil			X					X

NOTES:

* = Sample location is in an area overlapping with Area 6.

** = Sample location is in an area overlapping with Area 7.

TPH and BTEX: Soil and groundwater samples collected from within Area 8 have not contained TPH or BTEX at concentrations above screening levels.

PCBs: PCB aroclors were detected above screening levels within all Area 8 soil samples except for six confirmation samples collected following excavation activities completed in 2013 within the vicinity of borings SB3 and SB4 (discussed within Section 6.2). Area 8 wells PL2-JF03A, MW-6, MW-39, MW-42, and MW-47 have been analyzed for PCB aroclors. A groundwater sample taken from MW-6 in 2003 contained total PCB aroclors at a concentration of 0.410 μg/L, above the screening level. However, the sample was reported to be a false detection (Farallon and Anchor, 2006). The sample collected from MW-6 in 2017 did not contain detectable PCB aroclors. PCB congeners were detected within the sample. PCBs have not been detected within any other Area 8 groundwater samples.

PAHs: Area 8 PAH soil data include samples collected from within the 0 to 6 feet bgs interval. Several PAHs have been detected at concentrations exceeding screening levels, including within confirmation samples collected from excavations completed in 2013 (discussed within Section 6.2) and 2014 (discussed within Section 6.4). These include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, acenaphthene, anthracene, fluoranthene, fluorene, naphthalene, and pyrene. PAHs have not been detected above screening levels within Area 8 wells MW-6, MW-39, MW-42, and MW-47.

SVOCs: Area 8 SVOC soil data include samples collected from within the 0 to 6 feet bgs interval. SVOCs were not detected frequently. N-nitrosodiphenylamine and butyl benzyl phthalate were detected above screening levels within two and one samples, respectively. SVOCs were not detected above screening levels with wells MW-6, MW-39, MW-42, and MW-47.

VOCs: VOCs have not been detected above screening levels within groundwater samples collected from Area 8 with the exception of vinyl chloride, which was detected within well MW-43 and within grab groundwater samples collected in 1994 and 1995 at concentrations above screening levels. Vinyl chloride is discussed further in Section 9.10.

Metals: Surface soil samples collected within Area 8 contained chromium, manganese, and cadmium at concentrations exceeding screening levels. Arsenic, barium, chromium, copper, lead, nickel, silver, zinc, and cadmium have been detected above screening levels within Area 8 soil samples, particularly within samples collected at the shoreline. Shoreline samples from depths greater than 15 feet bgs have not been collected.

Samples collected from within the 6 to 15 feet bgs interval within the embayment, but at greater distances from the shoreline, contained barium, chromium, copper, lead, nickel, zinc, and cadmium above screening levels. Shallower and deeper samples at these locations contained only barium at concentrations above screening levels.

Groundwater samples collected from Area 8 have contained several metals above screening levels, with total and dissolved arsenic and copper detected most frequently. Samples collected from wells MW-6, MW-39, and MW-42 in August 2017 and February 2018 contained total and dissolved arsenic, total copper, total and dissolved manganese, and total mercury at concentrations above screening levels. Cr(VI) was detected within the sample taken from well MW-39.

As shown in Figures B-37C through B-51C, several metals were detected above screening levels within grab groundwater samples collected in 1994 and 1995 from Area 8 borings. As mentioned in Section 8.2, the elevated concentrations may be attributed to higher turbidity associated with grab groundwater samples.

Summary and Data Gaps: PCBs, PAHs, and metals are the primary COPCs within Area 8, particularly within near-shore locations. Though detected within soils, PCBs and PAHs are not frequently measured above screening levels within groundwater samples collected in Area 8. Excavations have been completed within the area (discussed within Sections 6.2 and 6.4) to remove PCB- and metal-impacted soil. After the excavations, the remaining concentrations are significantly lower.

Area 8 has been sampled extensively; however, additional vertical delineation of several compounds, primarily along the shoreline, is warranted, and additional wells would aid in monitoring whether groundwater conditions are affecting the LDW.

9.9 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. Area 9 Site features are discussed in Table 3. Samples collected and analyzed are listed in Exhibit 9-9.

Exhibit 9-9: Summary of Area 9 Sample Analyses

Sample Location	Matrix	TPH	BTEX	PCBs	PAHs	SVOCs	HVOCs	VOCs	Metals
DM-B-1	Soil	x	X		x	x	X	x	
DM-SB-1	Soil	x	X		x	x	X	x	
DM-SB-2	Soil	x	X		x	x	X	x	
JF-DGP1	Soil			x					
JF-DGP2	Soil		X	x	x	x	X	x	x
JF-DGP3	Soil		X	x	x	x	x	x	
JF-DGP4	Soil		X	x	x	x	x	x	x
JF-DGP5	Soil		X	x	x	x	x	x	x
JF-DGP6	Soil		X	x	x	x	x	x	
JF-DGS1	Soil			x					
JF-DGS2	Soil			x					
JF-DGS3	Soil			x					

	JF-DP01	Soil			x					
	JF-DP02	Soil			x					
	JF-DP03	Soil			x					
	JF-DP04	Soil			x					
	JF-DP05	Soil			x					
	JF-DP06	Soil			x					
	JF-DP07	Soil			x					
	JF-DP08	Soil			x					
	JF-DP09	Soil			x					
	JF-DP10	Soil			x					
	JF-DP11	Soil			x					
	JF-DP12	Soil			x					
	MW-50	Soil	x	X			x	x		
	MW-51	Soil	x	X			x	x		
	MW-52	Soil	x	X			x	x		
	OA11-DP09	Soil			x					
	OA11-DP10	Soil			x					
	OA11-DP11	Soil			x					
	OA11-ex-S1	Soil			x					
	OA11-ex-S10	Soil			x					
	OA11-ex-S2	Soil			x					
	OA11-ex-S7	Soil			x					
	OA11-ex-S8	Soil			x					
	PL2-JF04A	Soil	x		x					
	SB-07201	Soil		X				x		x
	SB-07202	Soil		X	x			x	x	x
	SB-07206	Soil			x					
	SB-07210	Soil	x							
	SB-07220	Soil	x		x					
	SB-07228	Soil	x		x					
	SB-07229	Soil	x							
	SB-07229r	Soil	x		x					
	SB-07230r	Soil	x		x					
	SB-07231r	Soil	x		x					
	SB-07232	Soil	x							
	SB-07232r	Soil	x		x					
	SB-07233	Soil	x							
	SB-07233r	Soil	x		x					
	SB-07234	Soil	x		x					
	SB-07235	Soil	x							
	SB-07236	Soil	x							
	SB-07237	Soil	x							
	SB-07244	Soil	x							
	SB-07245	Soil	x		x					
	SB-07246	Soil			x					
	SB-07247	Soil	x		x					
	SB-07249	Soil	x		x					
	SB-07250	Soil	x		x					
	SB-07252	Soil			x					
	SB-07253	Soil	x		x					
	SB-09101	Soil	x	X	x			x		x
	SB-09105	Soil	x	X	x			x		x
	SB-09106	Soil	x	X	x			x		x
	SB1	Soil			x					x
	T2B1	Soil	x		x	x	x			x
	T2B2	Soil	x		x	x	x			x
	T2B3	Soil	x		x	x	x			x
	T2B4	Soil	x		x	x	x			x
	T3B1	Soil	x		x	x	x			x
	T3B2	Soil	x		x	x	x			x
	T3B3	Soil	x		x	x	x			x
	T3B4	Soil	x		x	x	x			x
*	DM-B-2	Soil	x							
*	MW-23	Soil	x							
*	MW-24	Soil	x	X			x	x		
*	SB-08916	Soil		X	x			x		x
*	SB-08918	Soil		X		x	x	x		x
*	SB-08921	Soil		X				x		x
*	SB-08923	Soil		X				x		x

*	SB-09107	Soil	x							
	GP-06601	Water	x	X	x			x	x	
	GP-06602	Water	x	X	x			x	x	
	GP-06603	Water	x	X	x			x	x	
	GP-06604	Water	x	X	x			x	x	
	GP-06633	Water		X				x	x	
	GP-06634	Water		X				x	x	
	GP-06636	Water		X				x	x	
	GP-06637	Water		X				x	x	x
	GP-06638	Water		X				x	x	x
	GP-06639	Water		X				x	x	x
	GP-09101	Water	x	X	x	x	x	x	x	x
	GP-09102	Water	x	X	x	x	x	x	x	x
	GP-09103	Water	x	X	x	x	x	x	x	x
	MW-5	Water	x	X	x	x	x	x	x	x
	MW-50	Water	x	X	x	x	x	x	x	x
	MW-51	Water	x	X	x	x	x	x	x	x
	MW-52	Water	x	X	x	x	x	x	x	x
	PL2-JF01A	Water	x	X	x			x	x	x
	PL2-JF01AR	Water	x	X	x	x	x	x	x	x
	PL2-JF01B	Water	x	X	x	x	x	x	x	x
	PL2-JF01C	Water	x	X	x	x	x	x	x	x
	PL2-JF02A	Water	x	X	x	x	x	x	x	x
	PL2-JF04A	Water	x	X	x	x	x	x	x	x
	SB-07230	Water			x					
	SB-07233	Water			x					
	SB-07234	Water			x					
	SB-07238	Water			x					
	SB-07239	Water			x					
	SB-07242	Water			x					
	SB-07243	Water			x					
	SB-07244	Water			x					
	T2B2	Water		x	x	x	x	x	x	
	T2B3	Water		x	x	x	x	x	x	
	T2B4	Water		x	x	x	x	x	x	
	T3B2	Water		x	x	x	x	x	x	
	T3B3	Water		x	x	x	x	x	x	
	T3B4	Water		x	x	x	x	x	x	
*	GP-08901	Water		x		x	x	x	x	x
*	GP-08902	Water		x		x	x	x	x	x
*	GP-08903	Water		x		x	x	x	x	x
*	GP-08904	Water		x		x	x	x	x	x
*	GP-08905	Water		x		x	x	x	x	x
*	GP-08908	Water		x				x	x	x
*	MW-23	Water	x	x	x	x	x	x	x	x
*	MW-24	Water	x	x	x	x	x	x	x	x
*	MW-49	Water	x	x	x	x	x	x	x	x

NOTE:

* = Sample location is in an area overlapping with Area 1.

TPH and BTEX: As shown in Figures B-1A, B-2A, and B-3A, TPH-G, TPH-D, and to a lesser extent TP-O were detected above screening levels within samples taken from the northwest corner of the Site. The contaminated soil appears 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 concentrations above screening levels were measured 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).

TPH-G was detected above screening levels within groundwater samples taken from well MW-5 in February 2009 and from PL2-JF04A in 2006 and 2008. TPH-D was detected above screening levels within the sample taken from well PL2-JF04A in 2005.

In addition to the above described impacted area, TPH-D and TPH-O were detected in soil samples taken from the JFOS area, which has been remediated under EPA oversight.

Benzene has been measured above screening levels within wells PL2-JF01AR, MW-5, and PL2-JF01A. Benzene was detected above screening levels within several grab groundwater samples taken in 1994 and 1995 from borings completed in the northwestern corner of the Site (Figure B-4C). The highest detection (300 µg/L) occurred within a 14 feet bgs sample taken from GP-06604, located to the east of the northern end of the Black Shack Motor Storage building.

PCBs: As shown in Figure B-5A, numerous soil samples have been collected from the northwestern corner of the Site for PCB aroclors analysis. The investigation points were completed to assess two sources of PCBs, the JFOS and Boeing OA-11.

Sampling within and adjacent to the JFOS included collection of samples to depths as great as 34 feet bgs. PCB aroclors were detected at a maximum concentration of 274 mg/kg within a sample taken from 18 to 20 feet bgs (boring T2B4). In 2017, excavations were completed to remove the CMP portions of the JFOS stormwater conveyance pipes and soils with PCB aroclors at concentrations greater than 1 mg/kg (discussed within Section 6.4).

Sampling for Boeing OA-11 has shown decreasing PCB aroclor concentrations with depth and with distance from OA-11. Greater detail is provided on figures presented in Attachment D-3 of Appendix D.

PCB aroclors were also detected above screening levels within a soil sample taken from the 2 feet bgs from a boring completed along the northern property boundary at the center of the Site. A sample taken from the same boring from greater depths did not contain detectable PCB aroclors.

PCB aroclors were detected within a sample collected from well PL2-JF01AR in 2007. PCB aroclors have not been detected in any other groundwater samples collected from Area 9 wells. A sample collected from MW-49, located to the north of the office building, contained low levels of PCB congeners in 2017.

PAHs: Several PAHs were detected above screening levels within soil samples collected within the northwestern corner of the Site within the JFOS removal area or within the shoreline wedge. Fluoranthene was detected within a 2 feet bgs sample collected from along the northern property boundary. Deeper samples collected from the same location did not contain PAHs at concentrations exceeding screening levels. PAHs have not been detected above screening levels within groundwater samples collected from Area 9 wells.

SVOCs: SVOCs were detected infrequently in Area 9 soils at concentrations exceeding screening levels. With a few exceptions, the detections occurred with the JFOS removal area or within the shoreline wedge. Dibutyl pthalate was detected above screening levels within samples collected from 3 to 5 feet bgs and 8 to 10 feet bgs from boring T3B3, just south of the removal area. BEHP was detected within the 2 feet bgs and 12.5 feet bgs samples taken from boring SB-08918 located along the northern property boundary (overlapping with Area 1). As shown in Figure B-26B, BEHP was detected above screening levels within groundwater samples taken from wells MW-5, MW-51, PL2-JF04A, and MW-24.

VOCs: As shown in Figures B-33A, B-34A, and B-35A, PCE, TCE, and vinyl chloride were each detected above screening levels within at least one soil sample taken from the JFOS removal area.

Outside of the JFOS removal area, TCE was detected intermittently within the northwest corner of the Site within samples taken during installation of wells MW-50, MW-51, and MW-52, and from boring SB-07202. TCE was not apparent within one particular depth interval.

TCE was also detected above screening levels within several samples, primarily 5 feet bgs samples, collected from along the northern property boundary near the northwest corner of the main building. Within this area, vinyl chloride was detected within two samples taken from 12.5 feet bgs.

As shown in Figures B-32B, B-34B, and B-35B, VOCs including cis-1,2-DCE, TCE, and vinyl chloride have been detected above screening levels within Area 9 wells. Vinyl chloride was also detected above screening levels within grab groundwater samples collected in 1994 and 1995 (Figure B-35C). These vinyl chloride detections are discussed further in Section 9.10.

Metals: Several metals including arsenic, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, zinc, and cadmium were detected above screening levels within the northwest corner of the Site. Metals were more prevalent within locations situated closer to the shoreline and within the JFOS removal area. Detections exceeding screening levels appear to decrease with depth. Along the northern property boundary, arsenic, barium, and vanadium were detected above screening levels within soil samples collected from several locations.

Total and dissolved manganese and iron were detected above screening levels within groundwater samples taken from developed wells located within the northwest corner of the Site. Groundwater samples taken from wells located along the northern property boundary typically contained total and dissolved manganese and arsenic at concentrations exceeding screening levels.

As shown in Figures B-37C through B-51C, several metals were detected above screening levels within grab groundwater samples collected in 1994 and 1995 from Area 9 borings. As mentioned in Section 8.2, the elevated concentrations may be attributed to higher turbidity associated with grab groundwater samples.

Summary and Data Gaps: There are several COPCs within Area 9, including petroleum hydrocarbons, PCBs, PAHs, VOCs (predominantly TCE and vinyl chloride), and metals within soil located within the northwest corner of the Site. TCE and vinyl chloride are also frequently detected within groundwater along the northern property boundary, likely associated with Boeing Plant 2. The onsite wells installed by Boeing were decommissioned in 2013; at that time, VOCs (except for the vinyl chloride detection in PL2-JF01AR), did not exceed the screening levels protective of surface water.

Additional sampling points within the northwest corner of the property will support delineation of petroleum impacts and delineation of PCB impacts associated with OA-11.

9.10 Sitewide Contaminants

As mentioned in Section 4, some contaminants at the Site, most notably vinyl chloride and TPH-D, cross area boundaries.

Vinyl chloride: Figures B-35A, B-35B, and B-35C of Appendix B show the vinyl chloride analytical results for soil, groundwater (developed monitoring wells), and grab groundwater samples collected at the Site. As shown in Figure B-35A, soil samples from 28 locations across the Site have been analyzed for vinyl chloride. Only three soil samples contained vinyl chloride above laboratory reporting limits. The borings with detectable vinyl chloride (JF-DGP4, SB-08916, and SB-08923) were located along the northern property boundary. The samples were collected from depths below the water table. Shallower soil samples (collected from two of the borings) did not contain detectable vinyl chloride, suggesting that the source of vinyl chloride within these samples was groundwater.

Figure B-35B shows vinyl chloride results for samples collected from developed monitoring wells. As shown in the figure, vinyl chloride has been detected above screening levels within samples taken from wells located across the Site including wells located in Areas 1, 2, 5, 6, 7, 8, and 9, including wells MW-41, MW-43, and MW-45, screened within the deeper "B" zone. Samples collected from wells MW-42 (screened from 5 to 20 feet bgs) and MW-44 (screened from 50 to 60 feet bgs), located adjacent to well MW-43, have not contained detectable vinyl chloride concentrations.

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 (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. Attachment D-2 of Appendix D includes figures showing HVOC groundwater contamination within the "A" and "B" zones within the southern end of Boeing Plant 2 and extending onto the Site.

As shown in Figure B-35C, 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 onsite source. The only identified potential onsite source is the Shipping Area located in Area 1 (discussed in Section 9.1), where solvents were historically used to clean products prior to shipment. Soil sampling should be completed within this area to determine if the historical practices contributed to VOC contamination at the Site. Additional groundwater samples should be collected from select new and existing "A" and "B" zone wells to provide a better understanding of the distribution of vinyl chloride at the Site.

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 JFC property.

TPH-D: Figures B-2A, B-2B, and B-2C of Appendix B show the TPH-D analytical results for soil, groundwater (developed monitoring wells), and grab groundwater samples collected at the Site. As shown in Figure B-2A, TPH-D has been primarily encountered within soil samples taken from Area 2 and from within the northwest corner of the Site (Area 9). TPH-D soil contamination within these areas was discussed previously in Sections 9.2 and 9.9. As shown in Figure B-2C, few grab groundwater samples were analyzed for TPH-D; those that were analyzed did not contain detectable TPH-D.

As shown in Figure B-2B, dissolved-phase TPH-D has been detected above screening levels within groundwater samples taken from developed monitoring wells within all Site areas, though it has been most frequently detected within wells completed in Areas 1, 2, and 4. During the recent 2017 and 2018 events, TPH-D above screening levels in several wells that had not previously contained elevated TPH-D, including wells MW-40 and MW-41 (Area 5), MW-36 (Area 2), MW-45 (Area 6), and MW-43 (Area 7/8). Of these wells, MW-41, MW-45, and MW-43 are screened within the "B" zone. Additional monitoring wells are needed to delineate the dissolved-phase TPH-D plume(s).

9.11 Chromium Speciation

In August 2017, 24 wells were sampled for metals analysis, including Cr(VI). Of these wells, two contained Cr(VI) at concentrations above laboratory detection limits. These wells, MW-39 and MW-51 (near shore wells), contained Cr(VI) at concentrations of 24.0 and 13.0 μg/L, respectively, well below the screening level of 50 μg/L.

Chromium has been detected at concentrations above screening levels, primarily within samples taken from along the shoreline and from within the former embayment between depths of 0 and 15 feet bgs. However, soil samples have not been analyzed for chromium speciation and it is not known if the chromium concentrations are representative of Cr(III) or Cr(VI). Currently, the soil data are screened with respect to total chromium; however, the soil screening level for Cr(VI) is lower.

Cr(VI) should be included within the analytical suite when soil samples and groundwater samples from new wells are to be analyzed for metals (at select locations). Groundwater samples collected from some of the existing wells should also be analyzed for Cr(VI).

9.12 Aqueous Film Forming Foam (AFFF) Fire Suppression Systems

As noted in Section 4, AFFF fire suppression systems were observed within the 660-, 1,250-, and 2,500-ton press pump rooms and within the Q1/Q2/Q3 vault. AFFF, which is used to fight liquid hydrocarbon fires, contains per- and polyfluoroalkyl substances (PFAS). In the early 2000s, PFAS compounds were identified as contaminants of emerging concern. PFAS compounds are a group of man-made fluorinated organic chemicals which have been used since the 1950s. Perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) are the two most studied PFAS compounds and the largest component of historical AFFF. They are persistent within the environment and resistant to environmental degradation processes (EPA, 2017). Ecology has not yet set cleanup levels for PFAS compounds; however, the EPA has set a lifetime Health Advisory Level for PFOS and PFOA (either separately or combined) of 70 nanograms per liter (ng/L) for drinking water.

Though there is no indication that the AFFF fire suppression systems were activated or leaked, groundwater samples at the Site have not been tested for AFFF-related compounds. Limited groundwater sampling (one sampling event) for PFAS should be completed to evaluate the presence of PFAS within groundwater at the Site. Samples should be collected from upgradient wells MW-8, MW-71, and MW-72 (to establish whether there is migration on to the Site); area of use wells MW-60, MW-63, and MW-64; and downgradient wells MW-43 and MW-68. In the event that PFAS compounds are detected in the first groundwater sampling event, additional sampling may be undertaken after discussion with Ecology.

10 REMEDIAL INVESTIGATION (RI)

To address the data gaps identified in Section 9, RIs will be completed at the Site. The investigations target a better understanding of LNAPL distribution and behavior at the Site (including determining the extent of residual soil and groundwater contamination related to the LNAPL) and to close areas that may currently warrant additional delineation. Samples will primarily be analyzed for compounds identified as COPCs, with some additions; for example, samples analyzed for benzene will also be analyzed for the other BTEX constituents that are not COPCs (because they are co-located with TPH), samples analyzed for COPC HVOCs will also be analyzed for trans-1,2-DCE (not a COPC) because it is a common daughter product of TCE an PCE degradation, and some samples will be analyzed for full list SVOCs rather than the COPC SVOCs to provide additional data.

Sampling of the catch basins and seeps is not included in this scope based on the data previously generated, and the installation of the stormwater treatment system in 2013. The

SAP, provided as Appendix E, provides details regarding procedures for the investigation activities.

10.1 Light Non-aqueous Phase Liquid (LNAPL) Investigation

10.1.1 Laser-Induced Fluorescence (LIF) Plume Delineation

Plume delineation using direct-push drilling and LIF technology will be completed to evaluate the vertical and horizontal extent of LNAPL within the Area 1 and Area 2 LNAPL plumes. Facility equipment and tanks have not been operational for some time; therefore, LNAPL-containing monitoring wells will be monitored prior to commencing with the LIF investigation to assess whether ceasing operations and the removal of cutting oils have significantly altered LNAPL thicknesses. Results from the monitoring will be used to adjust the investigation strategy, if needed.

LIF delineation will be completed prior to well installation activities so that the results can be utilized to inform well placement with the objective of placing wells outside of the LNAPL plumes. The investigation will also target delineation of residual soil contamination associated with the LNAPL. LIF utilizes laser light, typically within the ultraviolet spectrum, to identify the presence of non-aqueous 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 September 2018, LNAPL samples were collected from each of the Area 1 and Area 2 LNAPL plumes. The samples were provided to the LIF subcontractor to evaluate whether it will fluoresce. The LIF subcontractor tested the LNAPL and provided test results confirming that the LNAPL does fluoresce and can be seen by their LIF technology.

For each LNAPL plume, investigation locations have been selected with two main objectives. The first objective is to identify the vertical location of LNAPL and residual soil contamination within the subsurface. The second objective is to delineate the horizontal extent of each LNAPL plume.

At least two plume-center borings will be completed within the anticipated central portion of the Area 1 LNAPL plume and within the Area 2 LNAPL plume. The objective of these borings is to determine the vertical extent of LNAPL and residual soil contamination below the LNAPL. As such, the borings will be completed to depths of up to 15 feet bgs and will extend at least 5 feet deeper than observed petroleum-saturated soil.

Plume-perimeter borings will be completed to determine the edge of each LNAPL plume using a step-in/step-out approach. Within the vicinity of each proposed groundwater monitoring well, a boring will be completed within the expected footprint of the LNAPL plume. Depending on whether LNAPL is observed within the boring, either a step-in or step-out boring will be completed with the goal of completing at least one boring within the LNAPL plume and one outside of the LNAPL plume extent. Multiple step-in or step-out borings may be required to identify the LNAPL plume edge. Plume-perimeter borings completed within the LNAPL plume will be extended to at least 5 feet deeper than observed petroleum-saturated soil. If LNAPL is not encountered within a plume-perimeter boring, it will be extended to at least 5 feet below the observed water table.

Approximate LNAPL plume-center and plume-perimeter borings are shown on Figure 20A. Boring placement will be adjusted in the field as required to avoid utilities and in response to findings from previous points. LIF investigations do not recover physical samples for laboratory analysis. Following completion of the LIF delineation activities, borings will be completed at the locations of the plume-center borings (two per LNAPL plume) during the soil investigation discussed in Section 10.2. From each of these borings, one soil sample will be collected from the depth with the highest LIF response. This sample is intended to provide an understanding of the relationship between LIF response and concentration. A second sample will be collected from the base of each of these borings to demonstrate that impacted soil has been delineated vertically.

10.1.2 Transmissivity Testing

Bail-down tests will be performed at three wells (two within Area 1 and one within Area 2) with measurable LNAPL to estimate transmissivity in accordance with the standard ASTM E2856-13. Transmissivity testing procedures are described within Appendix E.

10.1.3 Natural Source Zone Depletion (NSZD) Evaluation

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 evaluation will be completed for the first of these processes.

10.1.3.1 Saturated Zone Evaluation

To evaluate NSZD within the saturated zone, groundwater samples will be collected from wells located upgradient and downgradient of the Area 1 and Area 2 LNAPL plumes to confirm source zone dissolution to groundwater and to evaluate whether biodegradation is occurring.

Dissolution to groundwater can be confirmed by comparing dissolved-phase hydrocarbon concentrations detected within upgradient and downgradient wells. Increased concentrations detected within downgradient wells indicate that dissolution is occurring.

Evaluation of whether biodegradation is occurring can be completed by comparing biodegradation indicator compounds detected within upgradient and downgradient wells. Decreased concentrations of dissolved-phase electron acceptors such as oxygen (O_2), nitrate (NO_3^-), sulfate (SO_4^{2-}), and increased concentrations of ferrous iron (Fe^{2+}) and manganese (Mn^{2+}) within downgradient wells indicate that biodegradation is occurring. If dissolved methane (CH_4) is present at higher concentrations within downgradient wells, anaerobic biodegradation by methanogenesis may be occurring.

For each LNAPL plume (Areas 1 and 2), two upgradient and two downgradient wells will be sampled for the following parameters:

- TPH-D
- TPH-O
- Dissolved O_2 (field reading), NO_3^-, nitrite (NO_2^-), SO_4^{2-}, sulfite (SO_3^{2-}), Fe^{2+}, Mn^{2+}, and CH_4

The results from upgradient wells and downgradient wells will be compared to evaluate dissolution and degradation within the saturated zone for each LNAPL plume.

10.2 Soil Investigation

A total of 49 soil borings (SB-2020-001 through SB-2020-045 and A1-1, A1-2, A2-1, and A2-2) will be completed across the Site using a direct-push hydraulic probe rig to address data gaps identified in Section 9. Borings A1-1, A1-2, A2-1, and A2-2 were previously discussed in Section 10.1.1.

Boring locations are shown in Figures 20A and 20B. Boring depths ranging from 8 to 30 feet have been selected based on the location and intended purpose of each boring. Investigation activities will be sequenced with deeper borings completed (and samples analyzed) prior to shallow borings. This will allow for the shallow boring depths to be adjusted based on the initial findings to target vertical delineation. If apparent contamination is observed at the base of a boring, the boring depth may be increased in the field.

Table 8 includes a summary of each boring, the rationale for the boring, the proposed depth and number of samples to be collected, and the analyses to be performed. Drilling will be completed using continuous direct-push methods. The cores will be used for lithologic identification, field screening for evidence of contamination, and soil sample collection for laboratory analysis.

Soil sample depths will be selected in the field to target potential contamination (based on field screening) and changes in lithology. In the absence of apparent contamination or lithology changes, the following sampling approach will be employed:

- Three borings (SB-2020-042 through SB-2020-044) will be completed adjacent to the decommissioned 24-inch property line pipe. The borings will be completed to just past the fill material (up to 8 feet bgs). One sample will be collected from each boring from within one foot of the bottom depth of the pipe.
- Borings SB-2020-001, SB-2020-002, SB-2020-028, SB-2020-029, and SB-2020-045 will be completed to 10 feet bgs to evaluate specific features within the main building. Samples will be taken from 5 feet and 10 feet bgs.
- Borings SB-2020-018 through SB-2020-025 will be completed adjacent to Boeing OA-11 to depths of 12 feet bgs. Six soil samples, including depth-discrete samples taken from between 0 to 2, 2 to 4, 4 to 6, 6 to 8, 8 to 10, and 10 to 12 feet bgs, will be collected at each boring. The samples taken from between 8 to 10 and 10 to 12 feet bgs will be held for potential analysis.
- Optional borings SB-2020-030, SB-2020-031, SB-2020-032, SB-2020-036, and SB-2020-037 are proposed to be completed to investigate the Decommissioned Oil Storage Area vault and Decommissioned Diesel Storage Area vault and fill ports. Star Forge is proposing to remove the USTs from these areas and collect samples from around the USTs.
  - If the UST removal work is completed prior to the investigation, the data collected by Star Forge during the removal activities will be reviewed to determine if these borings are necessary and to inform boring placement and depth. Ecology approval will be obtained as to the necessity or placement of these borings. Up to two soil samples will be collected from each of these borings. Fill material placed following tank removal activities will not be targeted.
  - If the UST removal work has not occurred prior to the investigation, the borings will be completed to depths of up to 15 feet bgs. To avoid disturbing the tanks, angle boring methods may be used. Up to two soil samples will be collected from each of these borings.

- Borings SB-2020-033 through SB-2020-035 will be completed to evaluate the former Area 3 USTs. The borings will be completed to depths of up to 15 feet bgs. Up to two soil samples will be collected from each of these borings.
- At other 15-foot borings, up to three samples will be collected including samples taken from within the top 2 feet below surface or below subbase if present, from between 2 and 7 feet bgs, and from just above the water table.
- Up to five samples will be collected from 25-foot borings including the same intervals sampled at 15-foot borings, and samples taken from 20 and 25 feet bgs. The 20 and 25 feet samples will be held for potential analysis.
- Boring SB-2020-004 will be completed to 30 feet bgs due to the depth of the adjacent vault. Six samples will be collected including from the same intervals as the 25-foot borings and an additional 30 feet bgs sample. All samples from boring SB-2020-004 will be analyzed.

If slag or swarf is noted within a boring, the soil in close proximity to the material will be sampled. The soil will be analyzed for TPH-D, TPH-O, metals, and compounds detected within groundwater samples collected within the vicinity of the boring in which the slag or swarf was observed.

Soil sampling procedures are described within the SAP (Appendix E). Soil analyses will include:

- TPH-G, TPH-D, and TPH-O
- BTEX
- HVOCs including 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and vinyl chloride
- PAHs
- SVOCs (full list)
- PCBs as aroclors
- Metals including arsenic, barium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, vanadium, and zinc
- Cr(VI)
- TOC
- Physical parameters including grain size analysis and porosity

10.3 Groundwater Investigation

10.3.1 Well Installations

Up to 27 groundwater monitoring wells are to be completed at the locations shown in Figure 20A. Well MW-10R will be installed within the vicinity of decommissioned well MW-10 to allow for continued monitoring within Area 4. If well MW-22 cannot be located, it will be replaced with well MW-22R. Well MW-13R will be installed within Area 2 if LIF delineation activities suggest that LNAPL remains at levels similar to those historically observed within the area between the AHTB and main building.

The remaining wells (MW-53 through MW-76) will be installed to address the data gaps discussed within Section 9. The rationale for each well is summarized in Table 8 along with the proposed screen interval.

Drilling will be completed using hollow-stem auger drilling methods. At each location, samples will be collected at 5-foot intervals for lithologic identification and field screening for evidence of contamination. Soil samples will include a sample collected from within the top 2 feet below surface or below subbase if present, a sample taken from between 2 and 7 feet bgs, and a sample taken from above the water table. Samples will also be collected from 20 feet bgs and from greater depths for wells to be completed within the deeper ("B") groundwater zone. The 20 feet bgs and deeper samples will be held for potential laboratory analysis. Field screening will be used to select sample depths with the objective of targeting depths that appear to be most contaminated.

All wells will be screened across the water table from depths of 5 to 20 feet bgs, with the exception of wells MW-64 and MW-70. MW-64 will be completed within the deeper ("B") groundwater zone to evaluate if TPH-D impacts are present in the "B" zone downgradient of well MW-41, which has recently (February 2018) contained TPH-D at concentrations above screening levels. MW-70 will be screened in the "B" zone to determine if HVOCs are still present in the northwest corner of the Site. MW-64 and MW-70 will be screened from 45 to 60 feet bgs or shallower if the underlying aquitard is encountered. Two wells (MW-53 and MW-54) are being installed to evaluate groundwater before it discharges to the recently remediated LDW sediments.

At select groundwater monitoring well locations, cores extracted during drilling will be archived for potential use during future bench scale testing.

10.3.2 Groundwater Monitoring Well Survey

Shannon & Wilson will contract with a surveyor to survey the position and elevation of newly installed groundwater monitoring wells.

10.3.3 Hydraulic Conductivity Testing

Falling head and rising head slug testing will be performed at up to six wells to evaluate hydraulic conductivity at the Site. The procedures are described within the SAP (Appendix E). The results will be used to support future remedial option evaluation and design.

10.3.4 Groundwater Monitoring and Sampling

A comprehensive groundwater sampling event of existing Site wells was conducted in August 2017. A second groundwater sampling event of existing wells was completed in February 2018 in accordance with the Work Plan for Well Repairs and Groundwater Monitoring and Sampling (Shannon & Wilson, 2017).

Four quarterly groundwater monitoring and sampling events will be completed over a one year period as part of the RI to evaluate for seasonal variation and to determine appropriate seasons(s) for future sampling. The proposed sampling schedule for the first two quarterly events is provided within Table 8 (new wells) and Table 9 (existing wells). The schedule has been developed by evaluating the results from the August 2017 and February 2018 events. Samples collected during the August 2017 and February 2018 events were analyzed by methods that achieve very low laboratory detection limits. Chemicals that were not detected or were detected but were below the screening levels in both events, are not included within the sampling schedule. The schedule may be revised based on findings from the soil investigation activities. Any updates to the proposed schedule will be provided to Ecology for approval.

The schedule for the second two quarterly events will be determined following receipt of analytical results from the first two events and will primarily include sampling of new wells. The schedule will be provided to Ecology for approval.

10.3.4.1 Rationale for Selection of Analytes at New Monitoring Wells

Table 8 outlines the proposed analyses for newly installed wells for the first two sampling events and includes the rationale for the decision. The following factors were considered for the analytical selection at each location:

- The known history and potential contaminants of the area in which the well is located.
- The results from the August 2017 and February 2018 groundwater sampling events.
- The volume of data available for existing wells.

10.3.4.2 Groundwater Depth Monitoring

Procedures for monitoring the depth to water, depth to free product, and LNAPL thickness are described within the SAP (Appendix E). Previous depth to water and LNAPL thickness measurements are shown in Table 2. Due to the potential for tidal influence at the Site, we have included an approach to collect groundwater measurements at wells without LNAPL within a two-hour window. The remaining wells (wells with LNAPL) will be monitored (depth to LNAPL and LNAPL thickness measurements) after the wells without LNAPL have been measured.

10.3.4.3 Groundwater Sampling

Groundwater sampling procedures are described within the SAP (Appendix E). Groundwater analyses will include:

- TPH-G, TPH-D, and TPH-O
- BTEX
- HVOCs including 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and vinyl chloride
- MTBE
- PAHs
- Limited SVOCs (those identified as COPCs) 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)
- PCBs as aroclors
- 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 - PFOS, PFOA, perfluorobutanesulfonic acid [PFBS], perfluorohexanesulfonic acid [PFHxS], perfluoroheptanoic acid [PFHpA], and perfluorononanoic acid [PFNA]).
- Dissolved O_2 (field reading), NO_3^-, NO_2^-, SO_4^{2-}, SO_3^{2-}, Fe^{2+}, Mn^{2+}, and CH_4 (for NSZD and natural attenuation evaluation)

Selection of the UCMR 3 list of six perfluorinated compounds (PFOS, PFOA, PFBS, PFHxS, PFHpA, and PFNA) is based on our prior experience with AFFF-affected sites and is discussed further within the SAP (Appendix E).

10.4 Contractors

Contractors proposed for the RI work described in this work plan are as follows:

Driller:	Holt Services Incorporated, Milton, Washington;
LIF:	Columbia Technologies, Rockville, Maryland;
Surveyor:	True North Land Surveying, Incorporated, Seattle, Washington;
Laboratories:	Analytical Resources, Incorporated, Tukwila, Washington (see QAPP in Appendix F for rationale on selection);
	TestAmerica (PFAS); and
Waste Disposal:	Marine Vacuum Incorporated, Seattle, Washington.

11 REPORTING AND SCHEDULE

As required by the AO, the work will be initiated following Ecology's approval of this work plan. Scheduling will depend on subcontractor availability and will strive to minimize impact to Site operations. Field activities will be completed within 365 days of work plan approval. The data will be validated and finalized within 60 days of completion of field activities. A draft RI report will be submitted to Ecology within 90 days of receipt of final validated data.

12 LIMITATIONS

This work plan presently contemplates that EMJ will install wells that monitor the HVOC-contaminated groundwater plume that emanates from the adjacent property owned and operated by Boeing, and that EMJ will sample and analyze water from such 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 HVOC plume from the RI, and does not commit to investigating, containing, or cleaning it up.

Similarly, this work plan presently contemplates that EMJ will investigate PCB contamination in Area 9 that emanates from the Property Line Outfalls and/or Boeing's adjacent property. Pending further discussion with Ecology, EMJ reserves its right to exclude this contamination from the RI, and does not commit to investigating, containing, or cleaning it up.

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.

Enclosed is a document titled "Important Information About Your Geotechnical/ Environmental Report," to assist you and others in understanding the use and limitations of this work plan.

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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-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-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-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
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

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-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
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)

NOTES:

1 Screened interval of monitoring well in feet below ground surface (bgs).

2 Elevation of top of casing in feet relative to the North American Vertical Datum of 1988 (NAVD88), surveyed by True North Land Surveying, Inc., Seattle, Washington, August 2017, 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 survey 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 parenthesis.

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; orig. = originally

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-11	03/19/92	SEACOR	A	5-20	17.649	Active
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-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
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

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-52	12/02/09	Farallon	A	23-27	17.594	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)

NOTES:

1 Screened interval of monitoring well in feet below ground surface (bgs).

2 Elevation of top of casing in feet relative to the North American Vertical Datum of 1988 (NAVD88), surveyed by True North Land Surveying, Inc., Seattle, Washington, August 2017, 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 survey 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 parenthesis.

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; orig. = originally

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)	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-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	—	—	—	—
MW-4	11/20/92	SECOR	17.48	11.12	—	0	6.36

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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-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	—	—	—	—
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

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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	—	—	—	—

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-6	04/11/03	Farallon	20.61	13.57	—	0	7.04
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-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)	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-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	—	—	—	—
MW-8	08/25/09	Farallon	17.70	12.35	—	0	5.35

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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-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
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

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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-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	—	—	—	—
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

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-10	—	PES	—	—	—	—	—
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	—	—	—
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-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

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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	—
MW-12	01/05/00	URS	17.19	—	—	—	—
MW-12	5/2-3/2000	URS	17.19	13.01	10.84	2.17	—
MW-12	8/22-23/2000	URS	17.19	12.9	11.3	1.6	—
MW-12	12/12-13/2000	URS	17.19	12.89	11.03	1.86	—
MW-12	2/14-15/2001	URS	17.19	12.75	10.75	2	—
MW-12	04/09/02	Kane	17.19	13.51	11.57	1.94	—
MW-12	04/24/04	Kane	17.19	13.75	11.02	2.73	—
MW-12	05/18/05	Farallon	17.19	12.21	11	1.21	—
MW-12	12/13/05	Farallon	17.19	12.15	11.41	0.74	—
MW-12	05/18/06	Farallon	17.19	12.11	11.09	1.02	—
MW-12	07/31/07	Farallon	17.19	14.1	13.5	0.6	—
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	—
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	—
MW-13	01/05/00	URS	17.44	13.75	10.4	3.35	—
MW-13	5/2-3/2000	URS	17.44	14.06	10.88	3.18	—

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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	—
MW-13	2/14-15/2001	URS	17.44	13.46	10.95	2.51	—
MW-13	04/09/02	Kane	17.44	14.8	11.71	3.09	—
MW-13	04/24/04	Kane	17.44	14.25	11.52	2.73	—
MW-13	05/18/05	Farallon	17.44	13.28	11.14	2.14	—
MW-13	12/13/05	Farallon	17.44	12.85	11.61	1.24	—
MW-13	05/18/06	Farallon	17.44	12.99	11.25	1.74	—
MW-13	04/13/07	Farallon	17.44	13.02	11.11	1.91	—
MW-13	07/31/07	Farallon	17.44	6.5	3.59	2.91	—
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-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
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

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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-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-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	—

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-16	12/08/92	SECOR	17.72	13.58	10.88	2.7	—
MW-16	12/22/92	SECOR	17.72	13.9	10.67	3.23	—
MW-16	01/08/93	SECOR	17.72	—	—	—	—
MW-16	01/19/93	SECOR	17.72	15.33	10.5	4.83	—
MW-16	02/02/93	SECOR	17.72	15.72	10.24	5.48	—
MW-16	02/19/93	SECOR	17.72	16.56	10.25	6.31	—
MW-16	03/03/93	SECOR	17.72	16.56	10.5	6.06	—
MW-16	10/18-19/1999	URS	17.72	15.5	11	4.5	—
MW-16	01/05/00	URS	17.72	15.46	9.69	5.77	—
MW-16	5/2-3/2000	URS	17.72	15.49	10.27	5.22	—
MW-16	8/22-23/2000	URS	17.72	15.45	11.03	4.42	—
MW-16	12/12-13/2000	URS	17.72	14.5	10.72	3.78	—
MW-16	2/14-15/2001	URS	17.72	15.42	10.36	5.06	—
MW-16	04/09/02	Kane	17.72	17	11.2	5.8	—
MW-16	04/24/04	Kane	17.72	15.09	10.03	5.06	—
MW-16	12/29/04	Farallon	17.72	15.38	9.98	5.4	—
MW-16	05/18/05	Farallon	17.72	15.45	10.38	5.07	—
MW-16	12/13/05	Farallon	17.72	17.72	11	6.72	—
MW-16	05/18/06	Farallon	17.72	17.72	10.6	7.12	—
MW-16	04/13/07	Farallon	17.72	15.32	10.26	5.06	—
MW-16	07/31/07	Farallon	17.72	17.36	13	4.36	—
MW-16	01/29/08	Farallon	17.72	—	9.02	6.37	—
MW-16	02/23/09	Farallon	17.72	—	10.98	5	—
MW-16	05/19/09	Farallon	17.72	11.9	10.86	1.04	—
MW-16	08/25/09	Farallon	17.72	—	11.51	3.88	—
MW-16	12/09/09	Farallon	17.72	—	10.49	4.9	—
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-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	—
MW-17	12/12-13/2000	URS	17.61	17.32	10.9	6.42	—
MW-17	2/14-15/2001	URS	17.61	16.02	10.45	5.57	—
MW-17	04/09/02	Kane	17.61	14.7	10.9	3.8	—
MW-17	04/24/04	Kane	17.61	—	—	—	—
MW-17	05/18/05	Farallon	17.61	13.9	10.25	3.65	—
MW-17	12/13/05	Farallon	17.61	16.2	10.92	5.28	—
MW-17	05/18/06	Farallon	17.61	14.18	10.39	3.79	—
MW-17	04/13/07	Farallon	17.61	14.24	10.27	3.97	—
MW-17	07/31/07	Farallon	17.61	17.61	12.83	4.78	—
MW-17	01/29/08	Farallon	17.61	13.8	8.76	5.04	—
MW-17	02/23/09	Farallon	17.61	13.9	10.6	3.3	—
MW-17	05/19/09	Farallon	17.61	13.8	10.52	3.28	—
MW-17	08/25/09	Farallon	17.61	18.11	11.35	6.76	—
MW-17	12/09/09	Farallon	17.61	16.84	10.59	6.25	—
MW-17	09/30/15	PES	—	18.84	10.94	7.9	—

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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	8.55
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	—
MW-18	01/05/00	URS	17.51	11.51	10.11	1.4	—
MW-18	5/2-3/2000	URS	17.51	—	—	—	—
MW-18	8/22-23/2000	URS	17.51	12.1	11.65	0.45	—
MW-18	12/12-13/2000	URS	17.51	13.65	11.2	2.45	—
MW-18	2/14-15/2001	URS	17.51	11.55	10.82	0.73	—
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	—
MW-18	12/13/05	Farallon	17.51	11.6	11.02	0.58	—
MW-18	05/18/06	Farallon	17.51	11.65	9.88	1.77	—
MW-18	04/13/07	Farallon	17.51	11.66	9.09	2.57	—
MW-18	07/31/07	Farallon	17.51	14.22	13.12	1.1	—
MW-18	01/29/08	Farallon	17.51	10.36	8.7	1.66	—
MW-18	02/23/09	Farallon	17.51	11.66	10.51	1.15	—
MW-18	05/19/09	Farallon	17.51	13.8	10.62	3.18	—
MW-18	08/25/09	Farallon	17.51	12.09	11.65	0.44	—
MW-18	12/09/09	Farallon	17.51	11.01	10.12	0.89	—
MW-18	09/30/15	PES	—	11.98	11.09	0.89	—
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-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	—
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	—
MW-19	11/20/92	SECOR	17.47	14.54	—	4.2	—
MW-19	12/08/92	SECOR	17.47	14.51	—	4.54	—
MW-19	12/22/92	SECOR	17.47	14.53	—	4.7	—

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-19	01/08/93	SECOR	17.47	14.55	—	4.72	—
MW-19	01/19/93	SECOR	17.47	14.55	—	4.69	—
MW-19	02/02/93	SECOR	17.47	14.6	—	4.98	—
MW-19	02/19/93	SECOR	17.47	14.81	—	5.07	—
MW-19	03/03/93	SECOR	17.47	14.89	—	4.76	—
MW-19	10/18-19/1999	URS	17.47	14.8	10.93	3.87	—
MW-19	01/05/00	URS	17.47	14.85	9.72	5.13	—
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	—
MW-19	12/12-13/2000	URS	17.47	15.5	11.3	4.2	—
MW-19	2/14-15/2001	URS	17.47	14.78	9.98	4.8	—
MW-19	04/09/02	Kane	17.47	15.76	10.99	4.77	—
MW-19	04/10/03	Farallon	17.47	9.74	—	5.04	—
MW-19	04/24/04	Kane	17.47	13.84	8.86	4.98	—
MW-19	05/18/05	Farallon	17.47	14.64	10.41	4.23	—
MW-19	12/13/05	Farallon	17.47	14.9	10.8	4.1	—
MW-19	05/18/06	Farallon	17.47	14.7	10.44	4.26	—
MW-19	04/13/07	Farallon	17.47	14.6	10.32	4.28	—
MW-19	07/31/07	Farallon	17.47	16	12.77	3.23	—
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	—
MW-19	05/19/09	Farallon	17.47	—	—	—	—
MW-19	08/25/09	Farallon	17.47	11.25	11.16	0.09	—
MW-19	12/09/09	Farallon	17.47	12.34	9.88	2.46	—
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-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	—
MW-20	10/08/92	SECOR	18.22	—	—	—	—
MW-20	10/23/92	SECOR	18.22	—	—	—	—
MW-20	10/28/92	SECOR	18.22	14.68	—	4.18	—
MW-20	11/20/92	SECOR	18.22	14.69	—	4.44	—
MW-20	12/08/92	SECOR	18.22	14.68	—	4.76	—
MW-20	12/22/92	SECOR	18.22	14.62	—	4.8	—
MW-20	01/08/93	SECOR	18.22	14.67	—	4.86	—
MW-20	01/19/93	SECOR	18.22	14.63	—	5.08	—
MW-20	02/02/93	SECOR	18.22	14.73	—	5.39	—
MW-20	02/19/93	SECOR	18.22	15.04	—	5.61	—
MW-20	03/03/93	SECOR	18.22	14.84	—	4.92	—
MW-20	10/18-19/1999	URS	18.22	14.81	10.53	4.28	—
MW-20	01/05/00	URS	18.22	14.96	9.37	5.59	—
MW-20	5/2-3/2000	URS	18.22	14.85	9.85	5	—
MW-20	8/22-23/2000	URS	18.22	14.65	10.35	4.3	—
MW-20	12/12-13/2000	URS	18.22	14.75	10.95	3.8	—
MW-20	2/14-15/2001	URS	18.22	14.72	10.19	4.53	—

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-20	04/09/02	Kane	18.22	17.76	10.29	7.47	—
MW-20	04/24/04	Kane	18.22	—	—	—	—
MW-20	12/29/04	Farallon	18.22	14.56	9.41	5.15	—
MW-20	05/18/05	Farallon	18.22	14.81	9.46	5.35	—
MW-20	12/13/05	Farallon	18.22	14.77	10.12	4.65	—
MW-20	05/18/06	Farallon	18.22	14.5	9.6	4.9	—
MW-20	04/13/07	Farallon	18.22	14.56	9.51	5.05	—
MW-20	07/31/07	Farallon	18.22	16.64	11.97	4.67	—
MW-20	01/29/08	Farallon	18.22	13.72	8.1	5.62	—
MW-20	02/23/09	Farallon	18.22	14.52	9.51	5.01	—
MW-20	05/19/09	Farallon	18.22	14.6	9.34	5.26	—
MW-20	08/25/09	Farallon	18.22	14.82	10.24	4.58	—
MW-20	12/09/09	Farallon	18.22	14.68	9.4	5.28	—
MW-20	09/29/15	PES	—	—	—	—	—
MW-20	02/08/18	S&W	—	12.1	7.98	4.12	—
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	—
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	—
MW-21	11/20/92	SECOR	13.90	14.75	—	4.57	—
MW-21	12/08/92	SECOR	13.90	14.73	—	5.22	—
MW-21	12/22/92	SECOR	13.90	14.73	—	5.44	—
MW-21	01/08/93	SECOR	13.90	—	—	—	—
MW-21	01/19/93	SECOR	13.90	14.82	—	6.8	—
MW-21	02/02/93	SECOR	13.90	15.01	—	7.05	—
MW-21	02/19/93	SECOR	13.90	14.99	—	6.65	—
MW-21	03/03/93	SECOR	13.90	14.56	—	5.5	—
MW-21	10/18-19/1999	URS	13.90	14.85	7.85	7	—
MW-21	01/05/00	URS	13.90	14.52	6.97	7.55	—
MW-21	5/2-3/2000	URS	13.90	—	—	—	—
MW-21	8/22-23/2000	URS	13.90	13.22	7.85	5.37	—
MW-21	12/12-13/2000	URS	13.90	14.6	8.35	6.25	—
MW-21	2/14-15/2001	URS	13.90	14.59	7.78	6.81	—
MW-21	04/09/02	Kane	13.90	14.9	6.89	8.01	—
MW-21	04/24/04	Kane	13.90	—	—	—	—
MW-21	05/18/05	Farallon	13.90	11.45	7.04	4.41	—
MW-21	12/13/05	Farallon	13.90	14	7.77	6.23	—
MW-21	05/18/06	Farallon	13.90	13.67	7.17	6.5	—
MW-21	04/13/07	Farallon	13.90	13.79	7.08	6.71	—
MW-21	07/31/07	Farallon	13.90	15.23	9.61	5.62	—
MW-21	01/29/08	Farallon	13.90	10.84	5.93	4.91	—
MW-21	02/23/09	Farallon	13.90	12.56	7.08	5.48	—
MW-21	05/19/09	Farallon	13.90	13.75	6.7	7.05	—
MW-21	08/25/09	Farallon	13.90	12.56	7.97	4.59	—
MW-21	12/09/09	Farallon	13.90	10.23	6.77	3.46	—

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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-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	—
MW-22	5/2-3/2000	URS	16.98	8.1	7.36	0.74	—
MW-22	8/22-23/2000	URS	16.98	9.18	7.99	1.19	—
MW-22	12/12-13/2000	URS	16.98	10.3	8.2	2.1	—
MW-22	2/14-15/2001	URS	16.98	8.62	7.78	0.84	—
MW-22	04/09/02	Kane	16.98	8.71	6.76	1.95	—
MW-22	04/24/04	Kane	16.98	6.92	6.21	0.71	—
MW-22	12/29/04	Farallon	16.98	12.29	6.95	5.34	—
MW-22	05/18/05	Farallon	16.98	12.22	6.94	5.28	—
MW-22	12/13/05	Farallon	16.98	12.35	7.45	4.9	—
MW-22	05/18/06	Farallon	16.98	10.83	7.27	3.56	—
MW-22	04/13/07	Farallon	16.98	10.69	7.16	3.53	—
MW-22	07/31/07	Farallon	16.98	14.34	9.7	4.64	—
MW-22	01/29/08	Farallon	16.98	12.17	6.29	5.88	—
MW-22	02/23/09	Farallon	16.98	10.21	7.23	2.98	—
MW-22	05/19/09	Farallon	16.98	11.05	6.95	4.1	—
MW-22	08/25/09	Farallon	16.98	14.13	8.03	6.1	—
MW-22	12/09/09	Farallon	16.98	8.48	7.1	1.38	—
MW-22	—	PES	—	—	—	—	—
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

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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-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
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-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

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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-26	10/18-19/1999	URS	18.36	21.09	11.1	9.99	—
MW-26	01/05/00	URS	18.36	20.98	9.93	11.05	—
MW-26	5/2-3/2000	URS	18.36	21.09	10.6	10.49	—
MW-26	8/22-23/2000	URS	18.36	20.72	11.31	9.41	—
MW-26	12/12-13/2000	URS	18.36	21.15	11	10.15	—
MW-26	2/14-15/2001	URS	18.36	21.15	10.62	10.53	—
MW-26	04/09/02	Kane	18.36	21.02	11.13	9.89	—
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	—
MW-26	05/18/06	Farallon	18.36	19.35	10.39	8.96	—
MW-26	04/13/07	Farallon	18.36	19.3	10.31	8.99	—
MW-26	07/31/07	Farallon	18.36	21.65	12.69	8.96	—
MW-26	01/29/08	Farallon	18.36	17.41	8.75	8.66	—
MW-26	02/23/09	Farallon	18.36	NE	10.26	3.3	—
MW-26	05/19/09	Farallon	18.36	NE	10.23	3.33	—
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	7.78
MW-26	02/08/18	S&W	18.28	16.22	8.62	7.6	9.13
MW-27	10/18-19/1999	URS	18.15	18.5	11.52	6.98	—
MW-27	01/05/00	URS	18.15	18.2	10.28	7.92	—
MW-27	5/2-3/2000	URS	18.15	18.55	10.9	7.65	—
MW-27	8/22-23/2000	URS	18.15	18.66	11.64	7.02	—
MW-27	12/12-13/2000	URS	18.15	18.3	11.25	7.05	—
MW-27	2/14-15/2001	URS	18.15	18.2	7.85	10.35	—
MW-27	04/09/02	Kane	18.15	19.93	11.59	8.34	—
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	—
MW-27	05/18/06	Farallon	18.15	21.5	10.8	10.7	—
MW-27	04/13/07	Farallon	18.15	21.72	10.91	10.81	—
MW-27	07/31/07	Farallon	18.15	23.02	13.34	9.68	—
MW-27	01/29/08	Farallon	18.15	20.08	9.15	10.93	—
MW-27	02/23/09	Farallon	18.15	21.21	11.16	10.05	—
MW-27	05/19/09	Farallon	18.15	18.5	11.27	7.23	—
MW-27	08/25/09	Farallon	18.15	19.65	11.96	7.69	—

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-27	12/09/09	Farallon	18.15	18.36	10.96	7.4	—
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	6.58
MW-27	02/08/18	S&W	18.08	21.8	9.18	12.62	8.02
MW-28	10/18-19/1999	URS	18.35	19	11.2	7.8	—
MW-28	01/05/00	URS	18.35	18.2	10.53	7.67	—
MW-28	5/2-3/2000	URS	18.35	17.9	11.25	6.65	—
MW-28	8/22-23/2000	URS	18.35	18.41	11.82	6.59	—
MW-28	12/12-13/2000	URS	18.35	18.8	11.7	7.1	—
MW-28	2/14-15/2001	URS	18.35	18.14	11.24	6.9	—
MW-28	04/09/02	Kane	18.35	18.3	11.7	6.6	—
MW-28	04/24/04	Kane	18.35	18.49	10.62	7.87	—
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	—
MW-28	05/18/06	Farallon	18.35	16.45	10.89	5.56	—
MW-28	04/13/07	Farallon	18.35	16.41	10.81	5.6	—
MW-28	07/31/07	Farallon	18.35	21.33	16.7	4.63	—
MW-28	01/29/08	Farallon	18.35	15.3	9.25	6.05	—
MW-28	02/23/09	Farallon	18.35	13.06	6.02	7.04	—
MW-28	05/19/09	Farallon	18.35	16.5	11.15	5.35	—
MW-28	08/25/09	Farallon	18.35	16.68	12.15	4.53	—
MW-28	12/09/09	Farallon	18.35	15.44	10.95	4.49	—
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	8.67
MW-29	10/18-19/1999	URS	18.24	21.55	11.23	10.32	—
MW-29	01/05/00	URS	18.24	21.38	10	11.38	—
MW-29	5/2-3/2000	URS	18.24	21.42	10.67	10.75	—
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	—
MW-29	2/14-15/2001	URS	18.24	21.29	10.73	10.56	—
MW-29	04/09/02	Kane	18.24	22.59	11.39	11.2	—
MW-29	04/24/04	Kane	18.24		—	—	—
MW-29	05/18/05	Farallon	18.24	18.24	10.99	7.25	—
MW-29	12/13/05	Farallon	18.24	18.72	11.5	7.22	—
MW-29	05/18/06	Farallon	18.24	18.5	11.03	7.47	—
MW-29	04/13/07	Farallon	18.24	18.16	10.92	7.24	—
MW-29	07/31/07	Farallon	18.24	20.49	13.51	6.98	—
MW-29	01/29/08	Farallon	18.24	17.32	9.39	7.93	—
MW-29	02/23/09	Farallon	18.24	18.28	11.42	6.86	—
MW-29	05/19/09	Farallon	18.24	21.95	11	10.95	—
MW-29	08/25/09	Farallon	18.24	21.1	11.75	9.35	—
MW-29	12/09/09	Farallon	18.24	21.02	10.7	10.32	—
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	8.13
MW-30	10/18-19/1999	URS	17.48	12.2	—	0	5.28

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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
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-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-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

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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
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-33	10/18-19/1999	URS	17.23	12.1	11.7	0.4	—
MW-33	01/05/00	URS	17.23	11.71	10.38	1.33	—
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	—
MW-33	12/12-13/2000	URS	17.23	13.12	11	2.12	—
MW-33	2/14-15/2001	URS	17.23	12.7	10.78	1.92	—
MW-33	04/09/02	Kane	17.23	—	—	—	—
MW-33	04/11/03	Farallon	17.23	12.04	—	1.72	—
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	—
MW-33	12/13/05	Farallon	17.23	12.86	11.32	1.54	—
MW-33	05/18/06	Farallon	17.23	12.55	11.04	1.51	—
MW-33	04/13/07	Farallon	17.23	12.51	10.92	1.59	—
MW-33	07/31/07	Farallon	17.23	14.96	13.37	1.59	—
MW-33	01/29/08	Farallon	17.23	10.81	9.4	1.41	—
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

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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	—
MW-34	05/19/09	Farallon	17.13	11.41	11.29	0.12	—
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-35	10/18-19/1999	URS	13.96	19.2	11	8.2	—
MW-35	01/05/00	URS	13.96	18.85	9.7	9.15	—
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	—
MW-35	05/19/09	Farallon	13.96	17.8	10.7	7.1	—
MW-35	08/25/09	Farallon	13.96	17.85	11.44	6.41	—
MW-35	12/09/09	Farallon	13.96	17.56	10.45	7.11	—
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	6.49
MW-35	02/08/18	S&W	17.44	17.49	8.89	8.6	7.86
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
MW-36	12/09/09	Farallon	17.41	11.33	—	0	6.08
MW-36	09/29/15	PES	—	11.67	—	—	—

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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-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-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-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-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-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-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-43	02/23/09	Farallon	17.49	10.27	—	0	7.22

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
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-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-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
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-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-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-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-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

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)	LNAPL Thickness (feet)	Potentiometric Surface Elevation (feet NAVD88)[3]
MW-49	12/09/09	Farallon	17.33	10.95	—	0	6.38
MW-49	09/29/15	PES	—	11.36	—	—	—
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-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-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-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

Notes:

1 2017 data and later based on elevation of top of casing in feet relative to the North American Vertical Datum of 1988 (NAVD88), surveyed by True North Land Surveying, Inc., Seattle, Washington, August 2017, 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 survey did not include decommissioned or inaccessible wells (MW-1, MW-2, MW-5, MW-10, MW-12, MW-13, MW-22, MW-33; MW-20; and MW-32). Elevations for these locations and existing wells measured at earlier dates are based on survey data by PLS, Inc., Issaquah, Washington, August 2003 and March 2009, City of Seattle Benchmark No. SNV-5293.

2 Depth to water measured from the top of casing.

3 Calculated groundwater elevation in feet relative to NAVD88. Elevations measured in 2017-2018 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; PES = PES Environmental, Inc.; S&W = Shannon & Wilson, Inc.

Table 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
Area 1 - Hollowbore Area					
Hollowbore 59/60 Lathes Cutting Oil Holding Tank and Vault	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.
Hollowbore 59/60 Lathes Vault and Intermediate Cutting Oil Tank	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).
Hollowbore 58 Lathe Vault, Oil-Return Trench, Clean Cutting Oil Tank, and Dirty Cutting Oil Tank	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).
Subsurface Piping in Hollowbore Area	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).
Frenchman 63 Lathe Vault	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).
Tacchi #2 Vault	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).

Table 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
Carlton	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 seem (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).
Ingersoll	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).
Tacchi Vault and Tank	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.
MAE	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	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.
Metal Storage Shed	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.
Office Building Heating Oil UST	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.
Large Freight Scale	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	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.
Flammable Lockers in Shipping Area	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.

Table 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
Area 2 - Oil-Water Separator and Decommissioned Diesel Storage Area					
660-Ton Press Vault and Hydraulic Oil Tank	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.
1,250-Ton Press Vault and Hydraulic Oil Tank	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.
5,000-Ton Press Vault and Hydraulic Oil Tank	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 ft-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.

Table 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
L and F Press Vault and Hydraulic Oil Tank	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.
Ring Expander Vault and Hydraulic Oil Tank	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.
Ring Mill Vault, Coolant Storage Vault, and Coolant Tanks A & B	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.
Quench Tank 5/6 (Q5/Q6) Vault, Q5, and Q6	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.
Quench Tank 7 (Q7) Vault and Q7	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.

Table 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
Quench Tank 8 (Q8) Vault and Q8	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	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.
Decommissioned Diesel Storage Area Vault and Tanks (also known as the South Bank of 8 Tanks)	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 Aluminum Heat Treat Building, 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. Borings SB-2020-030, SB-2020-031, and SB-2020-032 will be installed in the footprint of the vault/tanks and adjacent to the fill ports.
Decommissioned Diesel Storage Area Product Lines	Fuel oil supply and return lines from the Decommissioned Diesel Storage Area to the Forge Shop. The lines run below the Aluminum Heat Treat Building, either below or set within the slab. The lines enter the steam tunnel at the west end of the Aluminum Heat Treat Building 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.
Steam Tunnel	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 Aluminum Heat Treat Building)	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.

Table 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
Former Truck Scale	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.
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	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	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).
Area 4 - Decommissioned Oil Storage Area					
Decommissioned Oil Storage Area "Vault" and Tanks (also known as the North Bank of 10 Tanks)	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 below ground 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).
Oil Recovery Area	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.
Waste Oil Tank and Vault	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.

Table 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
Oil House	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	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.
Area 5 - Remaining Building Interior Area					
Bueltmann Bar Peeler Oil-Return Vault	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).
2,500 Ton Press Vault	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.
West Craven Lathe Vault and Hydraulic Oil Tank	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.
East Craven Lathe Vault and Hydraulic Oil Tank	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.

Table 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
Quench Tanks 1/2/3 (Q1/Q2/Q3) Vault	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.
Portable Quench Tanks 4 and 9 (Q4 and Q9)	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.
West Grinder Pit #1	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	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	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)	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	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	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.
Large Hypro	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.

Table 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
Former Underground Quench Tank	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)	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.
Billet Storage Scale	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	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	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.
Former Steam Clean Area and Oil-Water Separator	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.
Former Gasoline AST	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.
Melt Shop Baghouse Dust Storage	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 (11-25%), lead (1.5-<5%), and manganese (1.5-<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.
Covered Metal Chip Storage Area	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 which 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.

Table 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
Former Etch House/Temporary Storage Area	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	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.
Area 7 - Former Metals Storage Area					
Arc Furnace Vault and Hydraulic Oil Tanks	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.
AOD Tapping Vault	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	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	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	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	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	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 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
Outdoor Scrap Metal Scale Vault	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.
Former Scrap Storage Bins	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)	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	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	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	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	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.
Embayment and Shoreline Fill	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.
Area 9 - Northwest Corner and Northern Property Boundary					
Diesel Fueling and Used Oil Storage (Former Waste Chemical Storage) Building and Diesel Fuel Tank	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).

Table 3 - Summary of Site Features

Name of Feature	Observations	Comment	Relevant Investigations	Data Gap Assessment	Recommendations
Jorgensen Forge Outfall Site (JFOS)	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).
Boeing Other Area 11 (OA-11)	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.

NOTES:

Site features shown in Figure 2. Below ground features detailed in Figure 3. UST and AST locations shown in Figure 15.

Green-shaded cells were updated since the Draft Remedial Investigation Work Plan (01/31/2019).

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; EAF =Electric Arc Furnace; ft = foot or feet; HVOC = halogenated volatile organic compound; 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; TPH-G, -D, -O = total petroleum hydrocarbons as gasoline, diesel, and oil; UST = underground storage tank; VOC = volatile organic compound

Table 4 - 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 4 - 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 4 - 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 4 - 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 4 - 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 4 - 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 4 - 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 5 - Summary of COPCs in Soil and Groundwater

Compound	Comments
Metals	
Arsenic	
Barium	
Cadmium	
Chromium	
Chromium, hexavalent	
Cobalt	Only retained in the vicinity of MW-15 due to total cobalt detections in groundwater.
Copper	
Iron	Only retained for groundwater.
Lead	
Manganese	Only retained for groundwater.
Mercury, inorganic	
Nickel	
Selenium	
Silver	
Vanadium	
Zinc	
Polychlorinated Biphenyls (PCBs)	
Total PCB Aroclors	
Total PCB Congeners	
Polycyclic Aromatic Hydrocarbons (PAHs) - Carcinogenic	
Benzo(a)pyrene	
Benzo(a)anthracene	
Benzo(b)fluoranthene	
Benzo(k)fluoranthene	
Chrysene	
Dibenz(a,h)anthracene	
Indeno(1,2,3-cd)pyrene	
Benzo(j)fluoranthene	
cPAH TEQ	
Polycyclic Aromatic Hydrocarbons (PAHs) - Other	
Acenaphthene	
Anthracene	
Fluoranthene	
Fluorene	
Naphthalene	

Table 5 - Summary of COPCs in Soil and Groundwater

Compound	Comments
Semi-Volatile Organic Compounds (SVOCs)	
Benzoic acid	
Bis(2-ethylhexyl) phthalate	
Butyl benzyl phthalate	
Dibutyl phthalate	
n-Nitrosodiphenylamine	
Pentachlorophenol	
1,2-Dichlorobenzene	Only retained in the northwest corner of the Site.
1,4-Dichlorobenzene	Only retained in the northwest corner of the Site.
2,4-Dimethylphenol	Only retained in the northwest corner of the Site.
Total Petroleum Hydrocarbons	
Diesel Range	
Gasoline Range	
Oil Range	
Volatile Organic Compounds (VOCs)	
Benzene	
1,1-Dichloroethene	
cis-1,2-Dichloroethene	
Tetrachloroethene (PCE)	
Trichloroethene (TCE)	
Vinyl chloride	
Methyl tert-butyl ether (MTBE)	Retained for Area 3 only. Has not been analyzed in this area.

NOTES:

The COPCs listed within this table were selected by merging the results of initial detailed evaluations carried out separately for groundwater and soil, presented in Tables 6 and 7, respectively. The COPC evaluation is discussed within Section 8.2 of the work plan.

With the exception of manganese and iron, if a compound was retained during the initial evaluation as a COPC in one medium, it has been retained as a COPC in both media.

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

Table 6 - 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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Metals																								
Aluminum (Dissolved)	5.0E+01	5.0E-02	44	6	0	38	19	86.4%	43.2%	2.7E+04	2.0E+01	2.0E+01	-	-	-	-	-	-	-	X	-	PCUL exceedances only occurred in grab samples. All samples taken from monitoring wells were below PCUL.	X	
Aluminum (Total)	5.0E+01	5.0E-02	48	1	0	47	41	97.9%	85.4%	3.1E+05	2.0E+00	2.0E+00	-	-	-	-	-	-	-	X	-	PCUL exceedances only occurred in grab samples, except a single detection within PL2-JF01A	X	
Antimony (Dissolved)	9.0E+01	1.0E+00	212	176	3	36	0	17.0%	1.4%	8.0E+00	1.0E+02	2.0E+00	-	-	-	-	-	X	-	-	-		X	
Antimony (Total)	9.0E+01	1.0E+00	243	207	5	36	0	14.8%	2.1%	4.0E+00	1.0E+02	2.0E+00	-	-	-	-	-	X	-	-	-		X	
Arsenic (Dissolved)	8.0E+00	5.0E-02	360	140	3	220	45	61.1%	13.3%	9.2E+01	2.0E+01	1.0E+00	-	-	-	-	-	-	-	-	-		-	Arsenic (Dissolved)
Arsenic (Total)	8.0E+00	5.0E-02	305	68	2	237	47	77.7%	16.1%	8.6E+01	5.0E+01	9.8E-01	-	-	-	-	-	-	-	-	-		-	Arsenic (Total)
Barium (Dissolved)	2.0E+02	3.0E-03	154	89	0	65	1	42.2%	0.6%	2.1E+02	2.5E+01	2.5E+01	-	-	-	-	-	X	-	-	-		X	
Barium (Total)	2.0E+02	3.0E-03	92	2	1	90	11	97.8%	13.0%	1.1E+03	2.0E+03	1.0E+03	-	-	-	-	-	-	-	-	-		-	Barium (Total)
Beryllium (Dissolved)	4.4E+00	1.0E-03	211	206	0	5	0	2.4%	0.0%	2.6E-02	2.0E+00	5.0E-01	-	-	-	X	X	X	-	-	-		X	
Beryllium (Total)	4.4E+00	1.0E-03	242	228	0	14	2	5.8%	0.8%	5.0E+00	2.0E+00	1.0E+00	-	-	-	-	-	X	-	-	-		X	
Cadmium (Dissolved)	1.2E+00	2.0E-03	352	343	274	9	1	2.6%	78.1%	2.0E+00	2.0E+01	2.0E+00	-	-	-	-	-	-	-	-	-		-	Cadmium (Dissolved)
Cadmium (Total)	1.2E+00	2.0E-03	298	273	215	25	6	8.4%	74.2%	2.3E+01	2.5E+01	2.0E+00	-	-	-	-	-	-	-	-	-		-	Cadmium (Total)
Chromium (Dissolved)	1.0E+02	5.0E-03	339	282	0	57	1	16.8%	0.3%	1.2E+02	5.0E+01	5.0E+00	-	-	-	-	-	X	-	-	-		X	
Chromium (Total)	1.0E+02	5.0E-03	285	167	0	118	4	41.4%	1.4%	3.1E+02	1.0E+02	5.0E+00	-	-	-	-	-	-	-	-	-		-	Chromium (Total)
Chromium, hexavalent (Dissolved)	5.0E+01	1.0E-02	62	31	0	31	0	50.0%	0.0%	2.4E+01	1.3E+01	1.3E+01	-	-	-	X	-	X	-	-	-		X	
Cobalt (Dissolved)	4.8E+00	3.0E-03	101	43	0	58	3	57.4%	3.0%	1.9E+01	3.0E+00	3.0E+00	-	-	-	-	-	-	-	X	-	PCUL exceedances only occurred in grab samples. All samples taken from monitoring wells were below PCUL.	X	
Cobalt (Total)	4.8E+00	3.0E-03	105	10	0	95	37	90.5%	35.2%	9.0E+01	3.0E+00	3.0E+00	-	-	-	-	-	-	-	-	X	Only detected above PCUL in one monitoring well (MW-15). All other exceedance occurred in grab samples.	***	Cobalt (Total)
Copper (Dissolved)	3.1E+00	2.0E-03	357	276	95	81	10	22.7%	29.4%	4.3E+01	2.0E+01	2.0E+00	-	-	-	-	-	-	-	-	-		-	Copper (Dissolved)
Copper (Total)	3.1E+00	2.0E-03	300	114	5	186	96	62.0%	33.7%	5.2E+02	1.0E+02	6.8E-01	-	-	-	-	-	-	-	-	-		-	Copper (Total)
Iron (Dissolved)	3.2E+04	5.0E-02	54	1	0	53	35	98.1%	64.8%	5.2E+04	1.0E+02	1.0E+02	-	-	-	-	-	-	-	-	-		-	Iron (Dissolved)
Iron (Total)	3.2E+04	5.0E-02	54	1	0	53	41	98.1%	75.9%	6.5E+04	1.0E+02	1.0E+02	-	-	-	-	-	-	-	-	-		-	Iron (Total)
Lead (Dissolved)	8.1E+00	2.0E-02	348	319	2	29	0	8.3%	0.6%	8.0E+00	1.0E+01	1.0E+00	-	-	-	-	-	X	-	-	-		X	
Lead (Total)	8.1E+00	2.0E-02	295	210	6	85	20	28.8%	8.8%	8.4E+01	5.0E+02	1.0E+00	-	-	-	-	-	-	-	-	-		-	Lead (Total)
Manganese (Dissolved)	1.0E+02	1.0E-03	112	5	0	107	95	95.5%	84.8%	3.1E+03	8.5E-02	8.5E-02	-	-	-	-	-	-	-	-	-		-	Manganese (Dissolved)
Manganese (Total)	1.0E+02	1.0E-03	112	3	0	109	102	97.3%	91.1%	3.2E+03	8.5E-02	8.5E-02	-	-	-	-	-	-	-	-	-		-	Manganese (Total)
Mercury, inorganic (Dissolved)	2.5E-02	1.0E-04	344	331	199	13	0	3.8%	57.8%	7.0E-03	5.0E-01	1.0E-01	-	-	-	-	-	-	-	-	-		-	Mercury, inorganic (Dissolved)

Table 6 - 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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Mercury, inorganic (Total)	2.5E-02	1.0E-04	288	242	116	46	24	16.0%	48.6%	2.0E+00	5.0E+02	2.5E-02	-	-	-	-	-	-	-	-	-		-	Mercury, inorganic (Total)
Nickel (Dissolved)	8.2E+00	1.0E-02	258	82	60	176	16	68.2%	29.5%	6.0E+01	2.0E+01	1.0E+01	-	-	-	-	-	-	-	-	-		-	Nickel (Dissolved)
Nickel (Total)	8.2E+00	1.0E-02	288	80	52	208	64	72.2%	40.3%	2.1E+02	3.0E+01	1.0E+01	-	-	-	-	-	-	-	-	-		-	Nickel (Total)
Selenium (Dissolved)	7.1E+01	5.0E-02	256	221	6	35	3	13.7%	3.5%	1.2E+02	2.5E+02	5.0E+01	-	-	-	-	-	-	-	-	-		-	Selenium (Dissolved)
Selenium (Total)	7.1E+01	5.0E-02	291	244	8	47	3	16.2%	3.8%	1.1E+02	5.0E+02	5.0E+01	-	-	-	-	-	-	-	-	-		-	Selenium (Total)
Silver (Dissolved)	1.9E+00	3.0E-03	343	335	131	8	0	2.3%	38.2%	4.4E-02	1.0E+01	1.5E+00	-	-	-	-	X	-	-		-		X	
Silver (Total)	1.9E+00	3.0E-03	287	275	107	12	1	4.2%	37.6%	2.0E+00	1.0E+02	5.0E-01	-	-	-	-	-	-	-	-	-		-	Silver (Total)
Thallium (Dissolved)	6.2E-02	5.0E-02	199	198	191	1	0	0.5%	96.0%	1.0E-03	5.0E+01	5.0E-01	-	-	-	-	-	-	-	X	-	Only detected in a single sample at concentration below the PCUL. Median RL is less than ten times the PCUL.	X	
Thallium (Total)	6.2E-02	5.0E-02	231	223	220	8	3	3.5%	96.5%	8.0E+01	1.0E+02	1.0E+00	-	-	-	-	-	-	-	X	-	Only three detections exceeded the PCUL (2 within grab samples); later samples from the well with the exceedance were below the PCUL. Median RL for samples taken from monitoring wells is less than ten times the PCUL.	X	
Vanadium (Dissolved)	1.4E+02	3.0E-03	174	46	0	128	0	73.6%	0.0%	9.0E+01	3.0E+01	3.0E+00	-	-	-	X	-	X	-	-	-		X	
Vanadium (Total)	1.4E+02	3.0E-03	184	21	0	163	13	88.6%	7.1%	1.0E+03	2.0E+01	3.0E+00	-	-	-	-	-	-	-	-	-		-	Vanadium (Total)
Zinc (Dissolved)	8.1E+01	1.0E-02	362	296	1	66	4	18.2%	1.4%	2.9E+02	1.5E+02	6.0E+00	-	-	-	-	-	-	-	-	-		-	Zinc (Dissolved)
Zinc (Total)	8.1E+01	1.0E-02	306	192	2	114	23	37.3%	8.2%	2.4E+03	1.5E+02	6.0E+00	-	-	-	-	-	-	-	-	-		-	Zinc (Total)
Polychlorinated Biphenyls																								
Aroclor-1016	-	1.0E-02	82	82	0	0	0	0.0%	0.0%	-	1.7E+01	1.3E-01	X	-	-	-	-	-	X	-	-		X	
Aroclor-1221	-	1.0E-02	69	69	0	0	0	0.0%	0.0%	-	2.0E+00	7.6E-02	X	-	-	-	-	-	X	-	-		X	
Aroclor-1232	-	1.0E-02	69	69	0	0	0	0.0%	0.0%	-	1.0E+00	7.6E-02	X	-	-	-	-	-	X	-	-		X	
Aroclor-1242	-	1.0E-02	82	82	0	0	0	0.0%	0.0%	-	1.7E+01	1.5E-01	X	-	-	-	-	-	X	-	-		X	
Aroclor-1248	-	1.0E-02	82	81	0	1	0	1.2%	0.0%	1.8E+00	1.0E+00	1.3E-01	X	-	-	-	-	-	X	-	-		X	
Aroclor-1254	-	1.0E-02	82	78	0	4	0	4.9%	0.0%	2.5E+00	1.0E+00	1.3E-01	X	-	-	-	-	-	X	-	-		X	
Aroclor-1260	-	1.0E-02	82	80	0	2	0	2.4%	0.0%	2.8E-01	1.0E+00	1.5E-01	X	-	-	-	-	-	X	-	-		X	
Aroclor-1262	-	1.0E-02	47	47	0	0	0	0.0%	0.0%	-	1.2E+00	1.5E-01	X	-	-	-	-	-	X	-	-		X	
Aroclor-1268	-	1.0E-02	47	47	0	0	0	0.0%	0.0%	-	1.0E+00	1.5E-01	X	-	-	-	-	-	X	-	-		X	
Total PCB Aroclors	7.0E-06	1.0E-02	70	66	66	4	4	5.7%	100.0%	4.3E+00	1.7E+01	1.5E-01	-	-	-	-	-	-	-	-	-		-	Total PCB Aroclors
Total PCB congeners	7.0E-06	-	4	0	0	4	4	100.0%	100.0%	1.8E-04	-	-	-	-	-	-	-	-	-	-	-		-	Total PCB congeners

Table 6 - 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%	Included within Other Group	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	148	147	147	1	1	0.7%	100.0%	1.2E-01	1.0E+00	1.0E-02	-	-	-	-	-	-	-	-	X	Retain for MW-10. Only detected at MW-10 and median RL equals the PQL.	***	Benzo(a)pyrene
Benzo(a)anthracene	1.6E-04	1.0E-02	148	146	146	2	2	1.4%	100.0%	5.2E-02	1.0E+00	1.0E-02	-	-	-	-	-	-	-	-	X	Retain for MW-10 and PL2-JF01C (deep well that no longer exists). Though all RLs exceed the PCUL, the median RL equals the PQL.	***	Benzo(a)anthracene
Benzo(b)fluoranthene	1.6E-04	1.0E-02	147	146	146	1	1	0.7%	100.0%	1.7E-01	1.0E+00	1.0E-02	-	-	-	-	-	-	-	-	X	Retain for MW-10. Only detected at MW-10 and median RL equals the PQL.	***	Benzo(b)fluoranthene
Benzo(k)fluoranthene	1.6E-03	1.0E-02	147	147	147	0	0	0.0%	100.0%	-	1.0E+00	1.0E-02	-	-	X	-	-	-	-	-	-		X	
Chrysene	1.6E-02	1.0E-02	148	147	62	1	1	0.7%	42.6%	2.2E-01	1.0E+00	1.0E-02	-	-	-	-	-	-	-	-	X	Retain for MW-10. Only detected at MW-10 and median RL is within an order of magnitude from the PCUL and equals the PQL.	***	Chrysene
Dibenz(a,h)anthracene	1.6E-05	1.0E-02	148	147	147	1	1	0.7%	100.0%	1.3E-02	1.0E+00	1.0E-02	-	-	-	-	-	-	-	-	X	Retain for MW-10. Only detected at MW-10 and median RL equals the PQL.	***	Dibenz(a,h)anthracene
Indeno(1,2,3-cd)pyrene	1.6E-04	1.0E-02	148	147	147	1	1	0.7%	100.0%	4.1E-02	1.0E+00	1.0E-02	-	-	-	-	-	-	-	-	X	Retain for MW-10. Only detected at MW-10 and median RL equals the PQL.	***	Indeno(1,2,3-cd)pyrene
Benzo(j)fluoranthene	-	-	27	27	0	0	0	0.0%	0.0%	-	9.0E-02	3.0E-02	X	-	-	-	-	-	-	-	-		X	
Other Polycyclic Aromatic Hydrocarbons																								
1-Methylnaphthalene	1.5E+00	2.0E-02	52	43	0	9	0	17.3%	0.0%	7.6E-01	3.0E-01	2.0E-02	-	-	-	X	-	X	-	-	-		X	
2-Methylnaphthalene	3.2E+01	2.0E-02	148	131	0	17	0	11.5%	0.0%	1.1E+01	2.0E-01	9.6E-02	-	-	-	X	-	X	-	-	-		X	
Acenaphthene	5.3E+00	2.0E-02	148	101	0	47	11	31.8%	7.4%	1.5E+01	3.0E-01	9.7E-02	-	-	-	-	-	-	-	-	X	Retain for MW-31. Historical exceedances occurred at MW-37 and MW-46; however, recent samples (2017 and 2018) did not contain PCUL exceedances. Median RL is below the PCUL.	***	Acenaphthene
Acenaphthylene	-	2.0E-02	148	145	0	3	0	2.0%	0.0%	1.9E-01	3.0E-01	9.6E-02	X	-	-	-	-	-	-	-	-		X	
Anthracene	2.1E+00	2.0E-02	148	136	0	12	0	8.1%	0.0%	3.7E-01	4.0E-01	9.6E-02	-	-	-	X	-	X	-	-	-		X	
Benzo(g,h,i)perylene	-	2.0E-02	148	146	0	2	0	1.4%	0.0%	7.8E-02	5.0E-01	1.0E-02	X	-	-	-	-	-	-	-	-		X	
Dibenzofuran	1.6E+01	1.0E+00	151	149	0	2	0	1.3%	0.0%	9.0E-02	1.0E+00	9.5E-01	-	-	-	X	X	X	-	-	-		X	
Fluoranthene	1.8E+00	2.0E-02	148	134	0	14	0	9.5%	0.0%	4.2E-01	4.0E-01	9.6E-02	-	-	-	X	-	X	-	-	-		X	
Fluorene	3.7E+00	2.0E-02	148	129	0	19	2	12.8%	1.4%	6.0E+00	3.0E-01	9.7E-02	-	-	-	-	-	X	-	-	-		X	
Naphthalene	1.4E+00	2.0E-02	175	154	0	21	5	12.0%	2.9%	9.7E+01	1.0E+00	9.7E-02	-	-	-	-	-	-	-	-	X	Retain for MW-46. Only detected above PCUL at MW-46. RLs below PCUL.	***	Naphthalene
Phenanthrene	-	2.0E-02	148	127	0	21	0	14.2%	0.0%	6.7E+00	2.0E-01	9.6E-02	X	-	-	-	-	-	-	-	-		X	
Pyrene	2.0E+00	2.0E-02	148	139	0	9	0	6.1%	0.0%	4.3E-01	3.0E-01	9.6E-02	-	-	-	X	-	X	-	-	-		X	
Total benzofluoranthenes	-	2.0E+00	48	48	0	0	0	0.0%	0.0%	-	8.0E-01	1.9E-01	X	-	-	-	-	-	X	-	-		X	
Total PAHs	-	-	4	4	0	0	0	0.0%	0.0%	-	1.0E-01	1.0E-01	X	-	-	-	-	-	X	-	-		X	

Table 6 - 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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Semi-Volatile Organic Compounds																								
1,2,4-Trichlorobenzene	3.7E-02	2.0E-01	165	165	145	0	0	0.0%	87.9%	-	2.0E+03	2.0E-01	-	-	X	-	-	-	-	-	-		X	
1,2-Dichlorobenzene	4.6E+00	1.0E+00	171	170	4	1	0	0.6%	2.3%	2.2E-01	2.0E+03	2.0E-01	-	-	-	-	-	-	-	X	-	Locations with elevated RL have been subsequently sampled with RL<PCUL.	X	
1,3-Dichlorobenzene	2.0E+00	1.0E+00	35	35	1	0	0	0.0%	2.9%	-	1.3E+01	3.0E-02	-	X	X	-	X	-	-	-	-		X	
1,4-Dichlorobenzene	4.9E+00	1.0E+00	171	165	4	6	0	3.5%	2.3%	3.6E+00	2.0E+03	2.0E-01	-	-	-	-	-	-	-	X	-	Locations with elevated RL have been subsequently sampled with RL<PCUL.	X	
2,4,5-Trichlorophenol	6.0E+02	2.0E+00	25	25	0	0	0	0.0%	0.0%	-	5.0E+00	1.0E-01	-	X	X	X	X	X	-	-	-		X	
2,4,6-Trichlorophenol	2.8E-01	1.0E+00	25	25	5	0	0	0.0%	20.0%	-	5.0E+00	2.0E-01	-	-	X	-	-	-	-	-	-		X	
2,4-Dichlorophenol	1.0E+01	2.0E+00	25	25	0	0	0	0.0%	0.0%	-	5.0E+00	1.0E-01	-	X	X	X	X	X	-	-	-		X	
2,4-Dimethyl-phenol	6.3E+00	1.0E+00	122	121	0	1	0	0.8%	0.0%	2.0E+00	2.0E+00	9.7E-01	-	-	-	X	X	X	-	-	-		X	
2,4-Dinitrophenol	1.0E+02	2.0E+00	25	25	0	0	0	0.0%	0.0%	-	1.0E+01	2.0E-01	-	X	X	X	X	X	-	-	-		X	
2,4-Dinitrotoluene	1.8E-01	1.0E+00	25	25	5	0	0	0.0%	20.0%	-	5.0E+00	1.0E-01	-	-	X	-	-	-	-	-	-		X	
2,6-Dinitrotoluene	3.0E+02	1.0E+00	25	25	0	0	0	0.0%	0.0%	-	5.0E+00	2.0E-01	-	X	X	X	X	X	-	-	-		X	
2-Chloronaphthalene	1.0E+02	1.0E+00	25	25	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	-	X	X	X	X	X	-	-	-		X	
2-Chlorophenol	1.7E+01	1.0E+00	25	25	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	-	X	X	X	X	X	-	-	-		X	
2-Methylphenol (o-Cresol)	2.7E+01	1.0E+00	122	121	0	1	0	0.8%	0.0%	1.0E+00	1.0E+00	9.7E-01	-	-	-	X	X	X	-	-	-		X	
2-Nitroaniline	1.6E+02	2.0E+00	25	25	0	0	0	0.0%	0.0%	-	5.0E+00	2.0E-01	-	X	X	X	X	X	-	-	-		X	
2-Nitrophenol	-	2.0E+00	25	25	0	0	0	0.0%	0.0%	-	5.0E+00	4.0E-02	X	-	-	-	-	-	-	-	-		X	
3,3'-Dichlorobenzidine	3.3E-03	1.0E+00	25	22	22	3	3	12.0%	100.0%	3.0E-01	5.0E+00	3.0E-01	-	-	-	-	-	-	-	X	-	The three detections were rejected based on quality control issues. Though the median RL exceeds the PCUL, it is below the PQL.	X	
3-Nitroaniline	-	3.0E+00	25	25	0	0	0	0.0%	0.0%	-	5.0E+00	2.0E-01	X	-	-	-	-	-	-	-	-		X	
4,6-Dinitro-2-methylphenol	7.0E+00	2.0E+00	25	25	4	0	0	0.0%	16.0%	-	1.0E+01	4.0E-01	-	X	X	-	X	-	-	-	-		X	
4-Bromophenyl phenyl ether	-	1.0E+00	25	25	0	0	0	0.0%	0.0%	-	1.0E+00	2.0E-02	X	-	-	-	-	-	-	-	-		X	
4-Chloro-3-methylphenol	3.6E+01	2.0E+00	25	25	0	0	0	0.0%	0.0%	-	5.0E+00	1.0E-01	-	X	X	X	X	X	-	-	-		X	
4-Chloroaniline	2.3E+03	1.0E+00	25	24	0	1	0	4.0%	0.0%	4.0E-02	5.0E+00	4.0E-02	-	-	-	X	X	X	-	-	-		X	

Table 6 - 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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
4-Chlorophenyl phenyl ether	-	1.0E+00	25	25	0	0	0	0.0%	0.0%	-	1.0E+00	2.0E-02	X	-	-	-	-	-	-	-	-		X	
4-Methylphenol (p-Cresol)	8.0E+02	1.0E+00	115	113	0	2	0	1.7%	0.0%	1.8E+01	1.0E+00	9.7E-01	-	-	-	X	X	X	-	-	-		X	
4-Nitroaniline	-	2.0E+00	25	25	0	0	0	0.0%	0.0%	-	5.0E+00	2.0E-01	X	-	-	-	-	-	-	-	-		X	
4-Nitrophenol	-	2.0E+00	25	25	0	0	0	0.0%	0.0%	-	5.0E+00	6.0E-02	X	-	-	-	-	-	-	-	-		X	
Benzoic acid	5.9E+02	2.0E+00	34	34	0	0	0	0.0%	0.0%	-	1.0E+01	1.0E-01	-	X	X	X	X	X	-	-	-		X	
Benzyl alcohol	8.0E+02	1.0E+00	122	122	0	0	0	0.0%	0.0%	-	5.0E+00	9.7E-01	-	X	X	X	X	X	-	-	-		X	
Bis(2-chloro-1-methylethyl) ether	9.0E+02	1.0E+00	25	25	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	-	X	X	X	X	X	-	-	-		X	
Bis(2-chloroethoxy)methane	-	1.0E+00	25	25	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	X	-	-	-	-	-	-	-	-		X	
Bis(2-chloroethyl)ether	6.0E-02	2.0E-01	25	25	5	0	0	0.0%	20.0%	-	1.0E+00	3.0E-02	-	-	X	-	-	-	-	-	-		X	
Bis(2-ethylhexyl) phthalate	4.6E-02	2.0E-01	122	112	112	10	10	8.2%	100.0%	3.5E+01	2.3E+00	9.7E-01	-	-	-	-	-	-	-	-	-		-	Bis(2-ethylhexyl) phthalate
Butyl benzyl phthalate	1.3E-02	2.0E-01	122	122	122	0	0	0.0%	100.0%	-	1.0E+00	9.7E-01	-	-	-	-	-	-	-	-	-		-	Butyl benzyl phthalate
Carbazole	-	1.0E+00	25	22	0	3	0	12.0%	0.0%	1.0E-01	1.0E+00	4.0E-02	X	-	-	-	-	-	-	-	-		X	
Dibutyl phthalate	8.0E+00	1.0E+00	122	122	0	0	0	0.0%	0.0%	-	1.0E+00	9.7E-01	-	X	X	X	X	X	-	-	-		X	
Diethyl phthalate	9.3E+01	1.0E+00	122	118	0	4	0	3.3%	0.0%	1.4E+00	1.0E+00	9.7E-01	-	-	-	X	X	X	-	-	-		X	
Dimethyl phthalate	6.0E+02	1.0E+00	122	122	0	0	0	0.0%	0.0%	-	1.0E+00	9.7E-01	-	X	X	X	X	X	-	-	-		X	
Di-n-octyl phthalate	3.9E-03	2.0E-01	122	122	122	0	0	0.0%	100.0%	-	1.0E+00	9.7E-01	-	-	-	-	-	-	-	X	-	Never detected; though the median RL exceeds the PCUL and PQL, the recent (2017 and 2018) sampling results were ND with RLs below the PQL (with one exception which was twice the PQL).	X	
Hexachlorobenzene	5.0E-06	2.0E-01	122	122	122	0	0	0.0%	100.0%	-	1.0E+00	9.7E-01	-	-	-	-	-	-	-	X	-	Never detected; though the median RL exceeds the PCUL and PQL, the recent (2017 and 2018) sampling results were ND with RLs below the PQL.	X	
Hexachlorobutadiene	1.0E-02	2.0E-01	157	157	157	0	0	0.0%	100.0%	-	2.0E+00	2.0E-01	-	-	X	-	-	-	-	-	-		X	
Hexachlorocyclopentadiene	1.0E+00	1.0E+00	25	25	5	0	0	0.0%	20.0%	-	5.0E+00	1.0E-01	-	X	X	-	X	-	-	-	-		X	
Hexachloroethane	2.0E-02	2.0E-01	25	25	25	0	0	0.0%	100.0%	-	1.0E+00	4.0E-02	-	-	X	-	-	-	-	-	-		X	
Isophorone	1.1E+02	1.0E+00	25	25	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	-	X	X	X	X	X	-	-	-		X	
Nitrobenzene	1.0E+02	1.0E+00	25	25	0	0	0	0.0%	0.0%	-	1.0E+00	3.0E-02	-	X	X	X	X	X	-	-	-		X	
n-Nitrosodimethylamine	3.4E-01	4.0E-01	21	21	1	0	0	0.0%	4.8%	-	1.5E+00	4.0E-02	-	X	X	-	X	-	-	-	-		X	
n-Nitrosodi-n-propylamine	5.8E-02	2.0E-01	25	25	5	0	0	0.0%	20.0%	-	5.0E+00	4.0E-02	-	-	X	-	-	-	-	-	-		X	
n-Nitrosodiphenylamine	6.9E-01	2.0E-01	122	122	101	0	0	0.0%	82.8%	-	1.0E+01	1.0E+00	-	-	-	-	-	-	-	-	-		-	n-Nitrosodiphenylamine
Pentachlorophenol	2.0E-03	1.0E+00	122	121	121	1	1	0.8%	100.0%	5.0E+00	5.2E+00	4.9E+00	-	-	-	-	-	-	-	-	-		-	Pentachlorophenol
Phenol	3.7E+02	1.0E+00	122	120	0	2	0	1.6%	0.0%	2.0E+00	2.0E+00	9.7E-01	-	-	-	X	X	X	-	-	-		X	

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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%	Included within Other Group	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	330	236	4	94	63	28.5%	20.3%	1.6E+05	4.0E+04	2.5E+02	-	-	-	-	-	-	-	-	-		-	Diesel Range
Gasoline Range	8.0E+02	5.0E+01	256	200	3	56	14	21.9%	6.6%	5.9E+04	1.0E+04	1.0E+02	-	-	-	-	-	-	-	-	-		-	Gasoline Range
Oil Range	5.0E+02	2.0E+02	305	257	32	48	34	15.7%	21.6%	3.4E+05	2.5E+04	4.2E+02	-	-	-	-	-	-	-	-	-		-	Oil Range
Oil Range	5.0E+02	2.0E+02	21	19	1	2	1	9.5%	9.5%	1.0E+03	1.0E+03	2.0E+02	-	-	-	-	-	-	X	-	-		X	
Total Petroleum Hydrocarbons	-	-	34	22	0	12	0	35.3%	0.0%	2.9E+04	1.0E+03	5.0E+02	X	-	-	-	-	-	X	-	-		X	
Volatile Organic Compounds																								
1,1,1,2-Tetrachloroethane	7.4E+00	2.0E-01	58	58	0	0	0	0.0%	0.0%	-	2.0E-01	4.0E-02	-	X	X	X	X	X	-	-	-		X	
1,1,1-Trichloroethane	5.5E+03	2.0E-01	422	414	0	8	0	1.9%	0.0%	5.0E+00	2.0E+03	1.0E+00	-	-	-	X	X	X	-	-	-		X	
1,1,2,2-Tetrachloroethane	3.0E-01	2.0E-01	128	128	40	0	0	0.0%	31.3%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-	-		X	
1,1,2-Trichloroethane	9.0E-01	2.0E-01	128	127	38	1	0	0.8%	29.7%	2.5E-01	5.0E+01	2.0E-01	-	-	-	-	-	-	-	X	-	Never detected above PCUL. Only small subset of RLs exceed ten times the PCUL; median RL below the PCUL.	X	
1,1-Dichloroethane	1.1E+01	2.0E-01	446	363	15	83	10	18.6%	5.6%	7.3E+01	2.0E+03	1.0E+00	-	-	-	-	-	-	-	X	-	No monitoring well detections have exceeded PCUL. Though some wells have had RLs above twice the PCUL, more recent samples from the same wells have been ND with RLs below the	X	
1,1-Dichloroethene	1.3E+02	1.0E-01	447	439	1	8	0	1.8%	0.2%	1.0E+01	2.0E+03	1.0E+00	-	-	-	-	-	-	-	X	-	Though the maximum RL was more than ten times the PCUL; no other RLS exceeded the PCUL.	X	
1,1-Dichloropropene	-	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	X	-	-	-	-	-					X	
1,2,3-Trichlorobenzene	-	5.0E-01	7	7	0	0	0	0.0%	0.0%	-	5.0E-01	5.0E-01	X	-	-	-	-	-					X	
1,2,3-Trichloropropane	1.5E-03	2.0E-01	58	58	58	0	0	0.0%	100.0%	-	5.0E-01	1.3E-01	-	-	X	-	-	-	-		-		X	
1,2,4-Trimethylbenzene	2.4E+02	2.0E-01	103	93	1	10	0	9.7%	1.0%	8.4E-01	2.0E+03	2.0E-01	-	-	-	-	-	-	-	X	-	Though the maximum RL was more than twice the PCUL; no other RLS exceeded the PCUL.	X	
1,2-Dibromo-3-chloropropane	2.0E-01	5.0E-01	58	58	58	0	0	0.0%	100.0%	-	5.0E-01	3.7E-01	-	X	X	-	X	-	-	-	-		X	
1,2-Dichloroethane (EDC)	4.2E+00	2.0E-01	447	436	27	11	0	2.5%	6.0%	2.6E+00	2.0E+03	1.0E+00	-	-	-	-	-	-	-	X	-	No detections have exceeded PCUL. Though some wells have had RLs above ten times the PCUL, more recent samples from the same wells have been ND with RLs below the PCUL.	X	
1,2-Dichloropropane	3.1E+00	2.0E-01	128	128	5	0	0	0.0%	3.9%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-	-		X	

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1,3,5-Trimethylbenzene	8.0E+01	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X					X	
1,3-Dichloropropane	-	2.0E-01	58	58	0	0	0	0.0%	0.0%	-	2.0E-01	6.0E-02	X	-	-	-	-	-	-	-	-		X	
2,2-Dichloropropane	-	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	X	-	-	-	-	-					X	
2-Chloroethyl vinyl ether	-	1.0E+00	103	98	0	4	0	3.9%	0.0%	2.5E-01	2.5E+02	7.5E-01	X	-	-	-	-	-	-	-	-		X	
2-Chlorotoluene	1.6E+02	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X					X	
2-Hexanone	4.0E+01	2.0E+00	77	77	3	0	0	0.0%	3.9%	-	2.5E+02	5.0E+00	-	X	-	-	X	-	-	-	-		X	
4-Chlorotoluene	-	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	X	-	-	-	-	-					X	
4-Isopropyltoluene	-	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	X	-	-	-	-	-					X	
Acetone	7.2E+03	2.0E+00	362	344	1	18	0	5.0%	0.3%	3.2E+01	1.0E+04	5.0E+00	-	-	-	-	X	X	-	-	-		X	
Acrolein	1.1E+00	5.0E+00	7	7	7	0	0	0.0%	100.0%	-	5.0E+00	5.0E+00	-	X	X	-	X	-					X	
Acrylonitrile	2.8E-02	1.0E+00	7	7	7	0	0	0.0%	100.0%	-	1.0E+00	1.0E+00	-	-	X	-	-	-					X	
Benzene	1.6E+00	2.0E-01	565	466	47	99	52	17.5%	17.5%	1.2E+03	2.0E+03	1.0E+00	-	-	-	-	-	-	-	-	-		-	Benzene
Bromobenzene	6.4E+01	2.0E-01	58	58	0	0	0	0.0%	0.0%	-	2.0E-01	6.0E-02	-	X	X	X	X	X	-	-	-		X	
Bromochloromethane	-	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	X	-	-	-	-	-					X	
Bromoethane	-	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	X	-	-	-	-	-					X	
Bromoform	1.2E+01	2.0E-01	128	128	4	0	0	0.0%	3.1%	-	5.0E+01	2.0E-01	-	X	X	-	X	-	-	-	-		X	
Bromomethane	1.3E+01	5.0E-01	128	128	3	0	0	0.0%	2.3%	-	5.0E+01	5.0E-01	-	X	X	-	X	-	-	-	-		X	
Carbon disulfide	4.0E+02	2.0E-01	383	367	1	16	0	4.2%	0.3%	1.8E+01	2.0E+03	1.0E+00	-	-	-	-	X	-	-	-	-		X	
Carbon tetrachloride	3.5E-01	2.0E-01	128	128	40	0	0	0.0%	31.3%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-	-		X	
Chlorobenzene	2.0E+02	2.0E-01	422	387	1	35	0	8.3%	0.2%	4.7E+01	2.0E+03	1.0E+00	-	-	-	-	-	-	-	X	-	Though frequency of detection is over 5%, no detections have exceeded the PCUL and only a single RL exceeded.	X	
Chloroethane	1.9E+04	2.0E-01	422	406	0	16	0	3.8%	0.0%	5.4E+03	2.0E+03	1.0E+00	-	-	-	X	X	X	-	-	-		X	
Chloroform	1.2E+00	2.0E-01	422	408	38	14	6	3.3%	10.4%	5.0E+02	2.0E+03	1.0E+00	-	-	-	-	-	-	-	X	-	Historic PCUL exceedances (detections and RLs) at locations at which recent results do not show exceedances. The median RL is below the PCUL.	X	
Chloromethane	1.5E+02	3.0E-01	422	418	1	4	0	0.9%	0.2%	4.8E+01	2.0E+03	1.0E+00	-	-	-	-	-	-	-	X	-	Though the maximum RL was more than ten times the PCUL; no other RLs exceeded the PCUL.	X	
cis-1,2-Dichloroethene	1.6E+01	2.0E-01	408	283	1	125	46	30.6%	11.5%	2.6E+04	2.5E+01	1.0E+00	-	-	-	-	-	-	-	-	-	Northwest corner and northern property boundary.	-	cis-1,2-Dichloroethene

Table 6 - 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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
cis-1,3-Dichloropropene	2.0E+00	2.0E-01	125	125	4	0	0	0.0%	3.2%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-	-		X	
Dibromochloromethane	2.2E+00	2.0E-01	128	128	6	0	0	0.0%	4.7%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-	-		X	
Dibromomethane	8.0E+01	2.0E-01	58	58	0	0	0	0.0%	0.0%	-	2.0E-01	1.5E-01	-	X	X	X	X	X	-	-	-		X	
Dichlorobromomethane	1.8E+00	2.0E-01	128	128	7	0	0	0.0%	5.5%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-	-		X	
Dichlorodifluoromethane (CFC-12)	5.6E+00	2.0E-01	51	48	0	3	0	5.9%	0.0%	5.0E-01	5.0E-02	5.0E-02	-	-	-	X	-	X	-	-	-		X	
Ethylbenzene	3.1E+01	2.0E-01	433	395	8	37	9	8.5%	3.9%	1.9E+03	2.0E+03	1.0E+00	-	-	-	-	-	-	X	-	-	Present within TPH.	X	
Ethylene dibromide (EDB)	2.7E-01	1.0E-01	58	58	0	0	0	0.0%	0.0%	-	2.0E-01	7.0E-02	-	X	X	X	X	X	-	-	-		X	
Isopropylbenzene (Cumene)	8.0E+02	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X					X	
m,p-Xylene	1.6E+03	4.0E-01	98	88	0	10	0	10.2%	0.0%	2.6E+01	5.0E+01	5.0E-01	-	-	-	X	-	X	-	-	-		X	
Methyl ethyl ketone (MEK)	1.7E+06	5.0E+00	75	75	0	0	0	0.0%	0.0%	-	2.5E+02	5.0E+00	-	X	X	X	X	X	-	-	-		X	
Methyl iodide	-	1.0E+00	7	7	0	0	0	0.0%	0.0%	-	1.0E+00	1.0E+00	X	-	-	-	-	-					X	
Methyl isobutyl ketone (MIBK)	4.7E+05	5.0E+00	72	72	0	0	0	0.0%	0.0%	-	2.5E+02	5.0E+00	-	X	X	X	X	X	-	-	-		X	
Methylene chloride	1.0E+02	5.0E-01	128	127	0	1	0	0.8%	0.0%	5.0E-01	1.0E+02	5.0E-01	-	-	-	-	X	X	-	-	-		X	
n-Butylbenzene	4.0E+02	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X					X	
n-Propylbenzene	8.0E+02	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X					X	
o-Xylene	4.3E+02	2.0E-01	102	88	0	13	0	12.7%	0.0%	3.4E+01	5.0E+01	5.0E-01	-	-	-	X	-	X	-	-	-		X	
sec-Butylbenzene	8.0E+02	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X					X	
Styrene	8.2E+03	2.0E-01	77	77	0	0	0	0.0%	0.0%	-	5.0E+01	1.0E+00	-	X	-	X	X	X	-	-	-		X	
tert-Butylbenzene	8.0E+02	2.0E-01	7	7	0	0	0	0.0%	0.0%	-	2.0E-01	2.0E-01	-	X	X	X	X	X					X	
Tetrachloroethene (PCE)	2.9E+00	2.0E-01	445	429	32	16	1	3.6%	7.4%	6.8E+00	2.0E+03	1.0E+00	-	-	-	-	-	-	-	-	-		-	Tetrachloroethene (PCE)
Toluene	1.3E+02	2.0E-01	565	520	1	45	5	8.0%	1.1%	1.4E+04	2.0E+03	1.0E+00	-	-	-	-	-	-	X	-	-	Present within TPH.	X	
Total xylenes	3.3E+02	5.0E-01	467	421	1	46	4	9.9%	1.1%	9.5E+03	2.0E+03	1.0E+00	-	-	-	-	-	-	X	-	-	Present within TPH.	X	
trans-1,2-Dichloroethene	1.0E+03	2.0E-01	447	418	1	29	0	6.5%	0.2%	3.1E+01	2.0E+03	1.0E+00	-	-	-	-	-	X	-	-	-		X	
trans-1,3-Dichloropropene	2.0E+00	2.0E-01	128	128	5	0	0	0.0%	3.9%	-	5.0E+01	2.0E-01	-	-	X	-	-	-	-	-	-		X	

Table 6 - 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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
trans-1,4-Dichloro-2-butene	-	1.0E+00	7	7	0	0	0	0.0%	0.0%	-	1.0E+00	1.0E+00	X	-	-	-	-	-					X	
Trichloroethene (TCE)	7.0E-01	2.0E-01	447	402	251	45	30	10.1%	62.9%	7.0E+01	2.0E+03	1.0E+00	-	-	-	-	-	-	-	-	X	Northwest corner and northern property boundary	***	Trichloroethene (TCE)
Trichlorofluoromethane (CFC-11)	2.4E+03	2.0E-01	128	128	0	0	0	0.0%	0.0%	-	5.0E+01	2.0E-01	-	X	X	X	X	X	-	-	-		X	
Trichlorotrifluoroethane (CFC-113)	1.8E+02	2.0E-01	74	74	0	0	0	0.0%	0.0%	-	1.0E+02	1.3E+00	-	X	-	X	X	X	-	-	-		X	
Vinyl acetate	7.8E+03	2.0E-01	77	77	0	0	0	0.0%	0.0%	-	2.5E+02	1.0E+00	-	X	-	X	X	X	-	-	-		X	
Vinyl chloride	1.8E-01	2.0E-02	447	221	167	226	209	50.6%	84.1%	1.6E+04	2.0E+03	2.0E-01	-	-	-	-	-	-	-	-	-		-	Vinyl chloride

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.
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%.
Included within Other Group = the compound is represented within another chemical group (for example, individual PCB Aroclors are included within Total PCB Aroclors
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)

3 X indicates that the compound has been eliminated as a COPC; *** indicates that the compound is retained in a portion of the Site; '- indicates that the compound is a COPC

a Screened against the most stringent PCUL for non-potable groundwater; if not available, screened against PCUL for potable groundwater. PCULs established by Ecology (June, 2018). 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.

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; PQL = practical quantitation limit; RL = reporting limit; TPH = total petroleum hydrocarbons; - = not applicable or not available

Table 7 - Evaluation Summary Table - COPCs in Soil

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%	Included within Other Group	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	-	-	-		X	
Antimony	4.1E+00	1.0E-01	21	20	20	1	1	4.8%	100.0%	5.0E+00	3.0E+01	6.0E+00	-	-	-	-	X	-	-	-	-		X	
Arsenic	7.3E+00	2.0E-01	169	86	53	83	40	49.1%	55.0%	1.8E+02	3.0E+01	1.1E+01	-	-	-	-	-	-	-	-	-	Also retain in shoreline wedge.	-	Arsenic
Barium	8.3E+00	1.0E-01	96	0	0	96	94	100.0%	97.9%	2.2E+02	-	-	-	-	-	-	-	-	-	-	-		-	Barium
Beryllium	3.5E+00	1.0E-01	28	7	0	21	0	75.0%	0.0%	3.0E-01	1.0E-01	1.0E-01	-	-	-	X	-	X	-	-	-		X	
Cadmium	7.7E-01	1.0E-01	169	110	20	59	34	34.9%	32.0%	2.9E+01	1.3E+00	5.7E-01	-	-	-	-	-	-	-	-	-		-	Cadmium
Chromium	4.8E+01	1.0E-01	144	2	0	142	58	98.6%	40.3%	6.5E+03	2.0E-02	2.0E-02	-	-	-	-	-	-	-	-	-	Also retain in shoreline wedge.	-	Chromium
Cobalt	2.0E+01	1.0E-01	25	0	0	25	0	100.0%	0.0%	1.6E+01	-	-	-	-	-	X	-	X	-	-	-		X	
Copper	3.6E+01	1.0E-01	152	0	0	152	58	100.0%	38.2%	9.6E+02	-	-	-	-	-	-	-	-	-	-	-		-	Copper
Iron	5.6E+04	5.0E+00	4	0	0	4	0	100.0%	0.0%	1.8E+04	-	-	-	-	-	X	-	X	-	-	-		X	
Lead	5.0E+01	1.0E-01	170	44	0	126	62	74.1%	36.5%	6.6E+03	1.0E+01	6.0E+00	-	-	-	-	-	-	-	-	-	Also retain in shoreline wedge.	-	Lead
Manganese	1.1E+03	1.0E-01	7	0	0	7	0	100.0%	0.0%	3.6E+02	-	-	-	-	-	X	-	X	-	-	-		X	
Mercury, inorganic	7.0E-02	2.0E-02	142	103	58	39	14	27.5%	50.7%	6.9E-01	3.6E-01	1.0E-01	-	-	-	-	-	-	-	-	-		-	Mercury, inorganic
Nickel	4.8E+01	1.0E-01	135	0	0	135	43	100.0%	31.9%	5.6E+03	-	-	-	-	-	-	-	-	-	-	-		-	Nickel
Selenium	3.0E-01	5.0E-01	99	87	81	12	4	12.1%	85.9%	8.0E+00	1.4E+01	1.1E+01	-	-	-	-	-	-	-	-	-		-	Selenium
Silver	1.6E-02	1.0E-01	142	99	99	43	43	30.3%	100.0%	3.6E+00	2.0E+00	5.6E-01	-	-	-	-	-	-	-	-	-		-	Silver
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.	X	
Vanadium	2.0E+00	1.0E-01	25	0	0	25	25	100.0%	100.0%	6.2E+01	-	-	-	-	-	-	-	-	-	-	-		-	Vanadium
Zinc	8.5E+01	5.0E-01	152	0	0	152	63	100.0%	41.4%	3.5E+04	-	-	-	-	-	-	-	-	-	-	-	Also retain in shoreline wedge.	-	Zinc

Table 7 - Evaluation Summary Table - COPCs in Soil

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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Polychlorinated Biphenyls																								
Aroclor-1016	-	2.0E-02	349	349	0	0	0	0.0%	0.0%	-	5.0E+02	4.4E-02	X	-	-	-	-	-	X	-	-	Included within Total PCB Aroclors	X	
Aroclor-1221	-	2.0E-02	333	333	0	0	0	0.0%	0.0%	-	5.0E+02	4.6E-02	X	-	-	-	-	-	X	-	-	Included within Total PCB Aroclors	X	
Aroclor-1232	-	2.0E-02	333	333	0	0	0	0.0%	0.0%	-	5.0E+02	4.3E-02	X	-	-	-	-	-	X	-	-	Included within Total PCB Aroclors	X	
Aroclor-1242	-	2.0E-02	349	349	0	0	0	0.0%	0.0%	-	5.0E+02	4.4E-02	X	-	-	-	-	-	X	-	-	Included within Total PCB Aroclors	X	
Aroclor-1248	-	2.0E-02	349	339	0	10	0	2.9%	0.0%	1.9E+02	5.0E+02	4.4E-02	X	-	-	-	-	-	X	-	-	Included within Total PCB Aroclors	X	
Aroclor-1254	-	2.0E-02	348	155	0	193	0	55.5%	0.0%	2.2E+02	5.0E+02	4.4E-02	X	-	-	-	-	-	X	-	-	Included within Total PCB Aroclors	X	
Aroclor-1260	-	2.0E-02	348	185	0	163	0	46.8%	0.0%	6.0E+02	1.2E+03	4.4E-02	X	-	-	-	-	-	X	-	-	Included within Total PCB Aroclors	X	
Aroclor-1262	-	2.0E-02	155	147	0	8	0	5.2%	0.0%	1.4E-01	1.2E+01	3.9E-02	X	-	-	-	-	-	X	-	-	Included within Total PCB Aroclors	X	
Aroclor-1268	-	2.0E-02	175	165	0	10	0	5.7%	0.0%	3.2E+00	4.8E+01	3.9E-02	X	-	-	-	-	-	X	-	-	Included within Total PCB Aroclors	X	
Total PCB Aroclors	2.2E-06	2.0E-02	399	139	138	260	260	65.2%	99.7%	8.3E+02	9.3E+01	4.6E-02	-	-	-	-	-	-	-	-	-	Also retain in shoreline wedge.	-	Total PCB Aroclors
Carcinogenic Polycyclic Aromatic Hydrocarbons																								
Benzo(a)pyrene	1.6E-05	5.0E-04	49	40	40	9	9	18.4%	100.0%	7.3E-01	1.8E-01	6.3E-02	-	-	-	-	-	-	-	-	X	Retain for near-shore and northwest corner. Retain within and downgradient of LNAPL plumes.	***	Benzo(a)pyrene
Benzo(a)anthracene	5.7E-05	5.0E-04	49	40	40	9	9	18.4%	100.0%	7.3E-01	1.8E-01	6.3E-02	-	-	-	-	-	-	-	-	X	Retain for near-shore and northwest corner. Retain within and downgradient of LNAPL plumes.	***	Benzo(a)anthracene
Benzo(b)fluoranthene	2.0E-04	5.0E-04	12	9	9	3	3	25.0%	100.0%	7.9E-01	8.9E-02	8.7E-03	-	-	-	-	-	-	-	-	X	Retain for northwest corner. Retain within and downgradient of LNAPL plumes.	***	Benzo(b)fluoranthene
Benzo(k)fluoranthene	2.0E-03	5.0E-04	12	9	9	3	3	25.0%	100.0%	3.0E-01	8.9E-02	8.7E-03	-	-	-	-	-	-	-	-	X	Retain for northwest corner. Retain within and downgradient of LNAPL plumes.	***	Benzo(k)fluoranthene
Chrysene	6.4E-03	2.0E-02	49	34	33	15	15	30.6%	98.0%	8.0E-01	1.8E-01	6.2E-02	-	-	-	-	-	-	-	-	X	Retain for near-shore and northwest corner. Retain within and downgradient of LNAPL plumes.	***	Chrysene
Dibenz(a,h)anthracene	2.9E-05	5.0E-04	49	42	42	7	7	14.3%	100.0%	4.2E-01	1.8E-01	6.2E-02	-	-	-	-	-	-	-	-	X	Retain for near-shore and northwest corner. Retain within and downgradient of LNAPL plumes.	***	Dibenz(a,h)anthracene
Indeno(1,2,3-cd)pyrene	5.6E-04	5.0E-04	49	41	41	8	8	16.3%	100.0%	5.3E-01	1.8E-01	6.2E-02	-	-	-	-	-	-	-	-	X	Retain for near-shore and northwest corner. Retain within and downgradient of LNAPL plumes.	***	Indeno(1,2,3-cd)pyrene
Other Polycyclic Aromatic Hydrocarbons																								
1-Methylnaphthalene	2.9E+01	2.0E-02	31	30	0	1	0	3.2%	0.0%	7.4E-02	1.8E-01	6.3E-02	-	-	-	X	X	X	-	-	-		X	
2-Methylnaphthalene	6.7E-01	2.0E-02	49	43	0	6	0	12.2%	0.0%	1.5E-01	1.8E-01	6.2E-02	-	-	-	X	-	X	-	-	-		X	
Acenaphthene	2.8E-02	2.0E-02	49	46	35	3	2	6.1%	75.5%	9.4E-02	1.8E-01	6.2E-02	-	-	-	-	-	-	-	-	X	Retain for near-shore and northwest corner. Retain within and downgradient of LNAPL plumes.	***	Acenaphthene
Acenaphthylene	1.3E+00	2.0E-02	49	46	0	3	0	6.1%	0.0%	1.4E-01	1.8E-01	6.2E-02	-	-	-	X	-	X	-	-	-		X	

Table 7 - Evaluation Summary Table - COPCs in Soil

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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Anthracene	5.1E-02	2.0E-02	49	43	33	6	3	12.2%	73.5%	1.2E-01	1.8E-01	6.2E-02	-	-	-	-	-	-	-	-	X	Retain for near-shore and northwest corner. Retain within and downgradient of LNAPL plumes.	***	Anthracene
Benzo(g,h,i)perylene	6.7E-01	2.0E-02	49	40	0	9	0	18.4%	0.0%	4.9E-01	1.8E-01	6.3E-02	-	-	-	X	-	X	-	-	-		X	
Dibenzofuran	5.4E-01	2.0E-02	49	47	0	2	0	4.1%	0.0%	1.1E-02	1.8E-01	6.2E-02	-	-	-	X	X	X	-	-	-		X	
Fluoranthene	9.0E-02	2.0E-02	49	32	4	17	8	34.7%	24.5%	9.3E-01	1.8E-01	6.3E-02	-	-	-	-	-	-	-	-	X	Retain for near-shore and northwest corner. Retain within and downgradient of LNAPL plumes.	***	Fluoranthene
Fluorene	2.9E-02	2.0E-02	49	46	35	3	1	6.1%	73.5%	7.3E-02	1.8E-01	6.2E-02	-	-	-	-	-	-	-	-	X	Retain for near-shore and northwest corner. Retain within and downgradient of LNAPL plumes.	***	Fluorene
Naphthalene	2.1E-03	1.0E-03	75	66	60	9	9	12.0%	92.0%	1.5E+00	3.3E+00	6.1E-02	-	-	-	-	-	-	-	-	X	Retain for near-shore, northwest corner, and at MW-46. Retain within and downgradient of LNAPL plumes.	***	Naphthalene
Phenanthrene	1.5E+00	2.0E-02	49	31	0	18	0	36.7%	0.0%	6.3E-01	1.8E-01	6.3E-02	-	-	-	X	-	X	-	-	-		X	
Pyrene	1.4E-01	2.0E-02	49	31	1	18	7	36.7%	16.3%	9.0E-01	1.8E-01	6.3E-02	-	-	-	-	-	-	-	-	X	Retain for near-shore and northwest corner. Retain within and downgradient of LNAPL plumes.	***	Pyrene
Semi-Volatile Organic Compounds																								
1,2,4-Trichlorobenzene	7.2E-05	5.0E-03	77	77	77	0	0	0.0%	100.0%	-	3.8E-01	4.0E-02	-	-	-	-	-	-	-	-	-	Though RLs exceed ten times the PCUL, it was never detected and there is no reason to suspect.	-	1,2,4-Trichlorobenzene
1,2-Dichlorobenzene	3.1E-03	5.0E-03	84	79	52	5	3	6.0%	65.5%	2.7E-01	1.8E-01	5.0E-02	-	-	-	-	-	-	-	-	X	Northwest corner only.	***	1,2-Dichlorobenzene
1,3-Dichlorobenzene	-	2.0E-02	49	46	0	3	0	6.1%	0.0%	2.9E-03	1.8E-01	6.2E-02	X	-	-	-	-	-	-	-	-		X	
1,4-Dichlorobenzene	8.1E-03	2.0E-02	84	79	48	5	1	6.0%	58.3%	1.5E-01	1.8E-01	5.0E-02	-	-	-	-	-	-	-	-	X	Northwest corner only.	***	1,4-Dichlorobenzene
2,4,5-Trichlorophenol	1.1E+00	1.0E-01	31	31	0	0	0	0.0%	0.0%	-	9.1E-01	3.1E-01	-	X	-	X	X	X	-	-	-		X	
2,4,6-Trichlorophenol	1.9E-04	1.0E-01	31	31	31	0	0	0.0%	100.0%	-	9.1E-01	3.1E-01	-	-	-	-	-	-	-	X	-	Though RLs exceed ten times the PCUL, it was never detected and median RL is relatively close to PQL.	X	
2,4-Dichlorophenol	4.3E-03	1.0E-01	31	31	31	0	0	0.0%	100.0%	-	1.1E+00	3.1E-01	-	-	-	-	-	-	-	X	-	Though RLs exceed ten times the PCUL, it was never detected and median RL is relatively close to PQL.	X	
2,4-Dimethylphenol	3.1E-03	2.5E-02	43	42	42	1	1	2.3%	100.0%	3.5E-02	2.2E-01	6.3E-02	-	-	-	-	-	-	-	-	X	Northwest corner only.	***	2,4-Dimethylphenol
2,4-Dinitrophenol	2.9E-02	1.0E-01	31	31	31	0	0	0.0%	100.0%	-	4.7E+00	6.3E-01	-	-	-	-	-	-	-	X	-	Though RLs exceed ten times the PCUL, it was never detected and median RL is relatively close to PQL.	X	
2,4-Dinitrotoluene	6.9E-05	1.0E-01	31	31	31	0	0	0.0%	100.0%	-	9.1E-01	3.1E-01	-	-	-	-	-	-	-	X	-	Though RLs exceed ten times the PCUL, it was never detected and median RL is relatively close to PQL.	X	
2,6-Dinitrotoluene	1.1E-01	1.0E-01	31	31	29	0	0	0.0%	93.5%	-	9.1E-01	3.1E-01	-	X	-	-	X	-	-	-	-		X	
2-Chloronaphthalene	6.4E+03	2.0E-02	31	31	0	0	0	0.0%	0.0%	-	1.8E-01	6.3E-02	-	X	-	X	X	X	-	-	-		X	
2-Chlorophenol	1.1E-02	2.0E-02	31	31	31	0	0	0.0%	100.0%	-	1.8E-01	6.3E-02	-	-	-	-	-	-	-	X	-	Only two RLs exceeded ten times the PCUL.	X	
2-Methylphenol (o-Cresol)	1.0E-02	5.0E-03	43	43	41	0	0	0.0%	95.3%	-	1.8E-01	6.2E-02	-	-	-	-	-	-	-	X	-	Though some RLs exceed ten times the PCUL, it was never detected and median RL is below ten times the PCUL.	X	

Table 7 - Evaluation Summary Table - COPCs in Soil

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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
2-Nitroaniline	8.0E+02	1.0E-01	31	31	0	0	0	0.0%	0.0%	-	9.1E-01	3.1E-01	-	X	-	X	X	X	-	-	-		X	
2-Nitrophenol	-	2.0E-02	31	31	0	0	0	0.0%	0.0%	-	5.6E-01	6.3E-02	X	-	-	-	-	-	-	-	-		X	
3,3'-Dichlorobenzidine	3.3E-06	1.0E-01	31	31	31	0	0	0.0%	100.0%	-	9.1E-01	3.1E-01	-	-	-	-	-	-	-	X	-	Though RLs exceed ten times the PCUL, it was never detected and median RL is relatively close to PQL.	X	
3-Nitroaniline	-	1.0E-01	31	31	0	0	0	0.0%	0.0%	-	9.1E-01	3.1E-01	X	-	-	-	-	-	-	-	-		X	
4,6-Dinitro-2-methylphenol	-	1.0E-01	31	31	0	0	0	0.0%	0.0%	-	1.8E+00	6.3E-01	X	-	-	-	-	-	-	-	-		X	
4-Bromophenyl phenyl ether	-	2.0E-02	31	31	0	0	0	0.0%	0.0%	-	1.8E-01	6.3E-02	X	-	-	-	-	-	-	-	-		X	
4-Chloro-3-methylphenol	-	1.0E-01	31	31	0	0	0	0.0%	0.0%	-	9.1E-01	3.1E-01	X	-	-	-	-	-	-	-	-		X	
4-Chloroaniline	8.1E-01	1.0E-01	31	31	4	0	0	0.0%	12.9%	-	1.5E+00	3.1E-01	-	X	-	-	X	-	-	-	-		X	
4-Chlorophenyl phenyl ether	-	2.0E-02	31	31	0	0	0	0.0%	0.0%	-	1.8E-01	6.3E-02	X	-	-	-	-	-	-	-	-		X	
4-Methylphenol (p-Cresol)	6.7E-01	5.0E-03	41	38	0	3	0	7.3%	0.0%	4.0E-02	2.2E-01	6.3E-02	-	-	-	X	-	X	-	-	-		X	
4-Nitroaniline	-	1.0E-01	31	31	0	0	0	0.0%	0.0%	-	9.1E-01	3.1E-01	X	-	-	-	-	-	-	-	-		X	
4-Nitrophenol	7.0E+00	1.0E-01	31	31	0	0	0	0.0%	0.0%	-	9.1E-01	3.1E-01	-	X	-	X	X	X	-	-	-		X	
Benzoic acid	1.7E-01	1.0E-01	38	37	36	1	1	2.6%	97.4%	1.8E-01	2.2E+00	6.3E-01	-	-	-	-	-	-	-	-	-		-	Benzoic acid
Benzyl alcohol	5.7E-02	2.0E-02	45	45	33	0	0	0.0%	73.3%	-	9.1E-01	3.1E-01	-	-	-	-	-	-	-	X	-	Only two RLs exceeded ten times the PCUL and it was never detected.	X	
Bis(2-chloro-1-methylethyl) ether	3.2E+03	2.0E-02	6	6	0	0	0	0.0%	0.0%	-	1.1E-01	8.3E-02	-	X	-	X	X	X	-	-	-		X	
Bis(2-chloroethoxy)methane	-	2.0E-02	31	31	0	0	0	0.0%	0.0%	-	1.8E-01	6.3E-02	X	-	-	-	-	-	-	-	-		X	
Bis(2-chloroethyl)ether	2.2E-05	2.0E-02	31	31	31	0	0	0.0%	100.0%	-	1.8E-01	6.3E-02	-	-	-	-	-	-	-	X	-	Though RLs exceed ten times the PCUL, it was never detected and median RL is relatively close to PQL.	X	
Bis(2-ethylhexyl) phthalate	5.1E-03	5.0E-02	48	38	38	10	10	20.8%	100.0%	8.2E-01	9.6E-01	6.3E-02	-	-	-	-	-	-	-	-	-		-	Bis(2-ethylhexyl) phthalate
Butyl benzyl phthalate	1.8E-04	5.0E-03	49	48	48	1	1	2.0%	100.0%	4.6E-03	6.0E-01	6.2E-02	-	-	-	-	-	-	-	-	-		-	Butyl benzyl phthalate
Carbazole	-	2.0E-02	31	31	0	0	0	0.0%	0.0%	-	1.8E-01	6.3E-02	X	-	-	-	-	-	-	-	-		X	
Dibutyl phthalate	1.5E-02	2.0E-02	45	32	32	13	11	28.9%	95.6%	7.9E-01	1.8E-01	6.2E-02	-	-	-	-	-	-	-	-	-		-	Dibutyl phthalate
Diethyl phthalate	3.4E-02	2.0E-02	31	31	31	0	0	0.0%	100.0%	-	2.8E-01	6.3E-02	-	X	-	-	X	-	-	-	-		X	
Dimethyl phthalate	7.1E-02	2.0E-02	45	45	9	0	0	0.0%	20.0%	-	1.8E-01	6.2E-02	-	X	-	-	X	-	-	-	-		X	
Di-n-octyl phthalate	3.3E-01	2.0E-02	49	49	1	0	0	0.0%	2.0%	-	6.0E-01	6.2E-02	-	X	-	-	X	X	-	-	-		X	
Hexachlorobenzene	4.0E-07	5.0E-03	45	45	45	0	0	0.0%	100.0%	-	1.8E-01	6.2E-02	-	-	-	-	-	-	-	X	-	Though RLs exceed ten times the PCUL, it was never detected and median RL is relatively close to PQL.	X	
Hexachlorobutadiene	5.4E-04	5.0E-03	74	74	74	0	0	0.0%	100.0%	-	5.6E-01	4.2E-02	-	-	-	-	-	-	-	X	-	Though some RLs exceed ten times the PCUL, it was never detected and median RL is relatively close to PQL.	X	

Table 7 - Evaluation Summary Table - COPCs in Soil

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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Hexachlorocyclopentadiene	2.0E-01	1.0E-01	31	31	31	0	0	0.0%	100.0%	-	2.2E+00	3.2E-01	-	-	-	-	-	-	-	X	-	Only three RLs exceeded ten times the PCUL and it was never detected.	X	
Hexachloroethane	4.1E-05	2.0E-02	31	31	31	0	0	0.0%	100.0%	-	1.8E-01	6.3E-02	-	-	-	-	-	-	-	X	-	Though RLs exceed ten times the PCUL, it was never detected and median RL is relatively close to PQL.	X	
Isophorone	3.7E-02	2.0E-02	31	31	29	0	0	0.0%	93.5%	-	1.8E-01	6.3E-02	-	X	-	-	X	-	-	-	-		X	
Nitrobenzene	4.1E-02	2.0E-02	31	31	29	0	0	0.0%	93.5%	-	1.8E-01	6.3E-02	-	X	-	-	X	-	-	-	-		X	
n-Nitrosodi-n-propylamine	1.8E-05	2.0E-02	31	31	31	0	0	0.0%	100.0%	-	1.8E-01	6.3E-02	-	-	-	-	-	-	-	X	-	Though RLs exceed ten times the PCUL, it was never detected and median RL is relatively close to PQL.	X	
n-Nitrosodiphenylamine	1.1E-03	5.0E-03	45	40	40	5	5	11.1%	100.0%	1.4E-02	1.8E-01	6.3E-02	-	-	-	-	-	-	-	-	-		-	n-Nitrosodiphenylamine
Pentachlorophenol	1.8E-06	2.0E-02	47	46	46	1	1	2.1%	100.0%	3.8E-02	1.1E+00	3.1E-01	-	-	-	-	-	-	-	-	-		-	Pentachlorophenol
Phenol	1.2E-01	2.0E-02	44	42	5	2	0	4.5%	11.4%	9.5E-03	1.8E-01	6.3E-02	-	-	-	-	X	-	-	-	-		X	
Total benzofluoranthenes	3.2E+00	-	49	33	0	16	0	32.7%	0.0%	1.3E+00	1.8E-01	6.2E-02	-	-	-	X	-	X	-	-	-		X	
Total cPAH TEQ	1.6E-05	-	6	2	0	4	4	66.7%	66.7%	1.0E-02	0.0E+00	0.0E+00	-	-	-	-	-	-	-	-	-		-	Total cPAH TEQ
Total HPAHs	1.2E+01	-	31	19	0	12	0	38.7%	0.0%	3.3E+00	1.8E-01	6.3E-02	-	-	-	X	-	X	X	-	-	PAHs listed separately.	X	
Total LPAHs	5.2E+00	-	31	23	0	8	0	25.8%	0.0%	1.0E+00	1.8E-01	6.2E-02	-	-	-	X	-	X	X	-	-	PAHs listed separately.	X	
Total PAHs	-	-	31	16	0	15	0	48.4%	0.0%	3.4E+00	1.8E-01	6.3E-02	X	-	-	-	-	-	X	-	-	PAHs listed separately.	X	
Total Petroleum Hydrocarbons																								
Diesel range hydrocarbons	2.6E+02	2.0E+01	188	94	0	94	44	50.0%	23.4%	7.8E+04	1.0E+02	2.5E+01	-	-	-	-	-	-	-	-	-		-	Diesel range hydrocarbons
Gasoline range hydrocarbons	1.2E+02	3.0E+00	80	54	0	26	16	32.5%	20.0%	9.4E+03	3.6E+01	5.8E+00	-	-	-	-	-	-	-	-	-		-	Gasoline range hydrocarbons
Hydraulic Fluid	-	-	34	20	0	14	0	41.2%	0.0%	3.4E+03	5.5E+03	5.5E+02	X	-	-	-	-	-	-	-	-	Included within Oil Range Hydrocarbons.	X	
Oil range hydrocarbons	2.0E+03	5.0E+01	162	85	0	77	7	47.5%	4.3%	1.9E+04	1.0E+02	5.0E+01	-	-	-	-	-	-	-	-	-		-	Oil range hydrocarbons
Total Petroleum Hydrocarbons	2.0E+03	-	94	51	0	43	19	45.7%	20.2%	1.2E+05	1.6E+01	1.0E+01	-	-	-	-	-	-	X	-	-	Each group listed separately	X	
Volatile Organic Compounds																								
1,1,1,2-Tetrachloroethane	3.8E+01	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	
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	-	-	-		X	
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	-	-	-	-	-	-		X	
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	-	-	-	-	-	-		X	
1,1-Dichloroethane	1.8E+02	1.0E-03	63	63	0	0	0	0.0%	0.0%	-	1.0E-01	1.2E-03	-	X	X	X	X	X	-	-	-		X	
1,1-Dichloroethylene	1.4E+00	1.0E-03	61	61	0	0	0	0.0%	0.0%	-	1.0E-01	1.2E-03	-	X	X	X	X	X	-	-	-		X	
1,1-Dichloropropene	-	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	X	-	-	-	-	-	-	-	-		X	
1,2,3-Trichlorobenzene	2.0E+01	5.0E-03	15	15	0	0	0	0.0%	0.0%	-	3.8E-01	5.9E-03	-	X	X	X	X	X	-	-	-		X	

Table 7 - Evaluation Summary Table - COPCs in Soil

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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
1,2,3-Trichloropropane	3.3E-02	2.0E-03	15	15	1	0	0	0.0%	6.7%	-	1.5E-01	2.4E-03	-	X	X	-	X	-	-	-	-		X	
1,2,4-Trimethylbenzene	8.0E+02	1.0E-03	15	13	0	2	0	13.3%	0.0%	1.2E-03	7.5E-02	1.2E-03	-	-	-	X	-	X	-	-	-		X	
1,2-Dibromo-3-chloropropane	1.3E+00	5.0E-03	15	15	0	0	0	0.0%	0.0%	-	3.8E-01	5.9E-03	-	X	X	X	X	X	-	-	-		X	
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	-	-	-	-		X	
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	-	-	-	-	-	-		X	
1,3,5-Trimethylbenzene	8.0E+02	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	
1,3-Dichloropropane	-	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	X	-	-	-	-	-	-	-	-		X	
2,2-Dichloropropane	-	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	X	-	-	-	-	-	-	-	-		X	
2-Chloroethyl vinyl ether	-	5.0E-03	22	22	0	0	0	0.0%	0.0%	-	3.8E-01	5.9E-03	X	-	-	-	-	-	-	-	-		X	
2-Chlorotoluene	1.6E+03	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	
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	-	-	-		X	
4-Chlorotoluene	-	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	X	-	-	-	-	-	-	-	-		X	
4-Isopropyltoluene	-	1.0E-03	15	11	0	4	0	26.7%	0.0%	7.5E-02	7.5E-02	1.2E-03	X	-	-	-	-	-	-	-	-		X	
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	-	-	-		X	
Acrolein	4.0E+01	5.0E-03	15	15	0	0	0	0.0%	0.0%	-	3.8E+00	5.9E-02	-	X	-	X	X	X	-	-	-		X	
Acrylonitrile	1.9E+00	5.0E-03	15	15	0	0	0	0.0%	0.0%	-	3.8E-01	5.9E-03	-	X	X	X	X	X	-	-	-		X	
Benzene	5.6E-04	1.0E-03	143	136	136	7	7	4.9%	100.0%	2.9E-01	1.0E+00	5.0E-03	-	-	-	-	-	-	-	-	-		-	Benzene
Bromobenzene	6.4E+02	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	
Bromochloromethane	-	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	X	-	-	-	-	-	-	-	-		X	
Bromoethane	-	2.0E-03	15	15	0	0	0	0.0%	0.0%	-	1.5E-01	2.4E-03	X	-	-	-	-	-	-	-	-		X	
Bromoform	5.0E-03	1.0E-03	22	22	1	0	0	0.0%	4.5%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-	-		X	
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	-	-	-		X	
Carbon disulfide	8.0E+03	1.0E-03	22	9	0	13	0	59.1%	0.0%	1.7E-02	7.5E-02	1.3E-03	-	-	-	X	-	X	-	-	-		X	
Carbon tetrachloride	1.5E-04	1.0E-03	22	22	22	0	0	0.0%	100.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-	-		X	
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	-	-	-		X	
Chloroethane	-	1.0E-03	22	22	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	X	-	-	-	-	-	-	-	-		X	
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	-	-	-		X	
Chloromethane	-	1.0E-03	22	22	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	X	-	-	-	-	-	-	-	-		X	
cis-1,2-Dichloroethylene	1.6E+02	1.0E-03	64	51	0	13	0	20.3%	0.0%	7.0E-02	1.0E-01	1.1E-03	-	-	-	X	-	X	-	-	-		X	
cis-1,3-Dichloropropene	6.3E-04	1.0E-03	19	19	19	0	0	0.0%	100.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-	-		X	

Table 7 - Evaluation Summary Table - COPCs in Soil

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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Dibromochloromethane	7.7E-04	1.0E-03	22	22	22	0	0	0.0%	100.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-	-		X	
Dibromomethane	8.0E+02	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	
Dichlorobromomethane	9.6E-04	1.0E-02	22	22	21	0	0	0.0%	95.5%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-	-		X	
Dichlorodifluoromethane (CFC-12)	1.6E+04	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	
Ethylbenzene	1.5E-02	1.0E-03	143	124	54	19	16	13.3%	49.0%	5.2E+01	1.1E-01	5.0E-03	-	-	-	-	-	-	X	-	-	Present within TPH.	X	
Ethylene dibromide (EDB)	5.0E-01	5.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	
Isopropylbenzene (Cumene)	8.0E+03	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	
m,p-Xylene	1.6E+04	2.0E-03	15	11	0	4	0	26.7%	0.0%	6.2E-03	7.5E-02	1.2E-03	-	-	-	X	-	X	-	-	-		X	
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	-	-	-		X	
Methyl iodide	-	1.0E-03	15	11	0	4	0	26.7%	0.0%	4.3E-02	1.4E-03	1.2E-03	X	-	-	-	-	-	-	-	-		X	
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	-	-	-		X	
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	-	-	X	Retain for Area 3; samples within Area 3 were not analyzed for MTBE.	***	Methyl tert-butyl ether (MTBE)
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	-	-	-	-		X	
n-Butylbenzene	4.0E+03	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	
n-Propylbenzene	8.0E+03	1.0E-03	15	15	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	
o-Xylene	1.6E+04	1.0E-03	15	13	0	2	0	13.3%	0.0%	1.3E-03	7.5E-02	1.2E-03	-	-	-	X	-	X	-	-	-		X	
sec-Butylbenzene	8.0E+03	1.0E-03	15	12	0	3	0	20.0%	0.0%	1.8E-03	7.5E-02	1.2E-03	-	-	-	X	-	X	-	-	-		X	
Styrene	3.0E+02	1.0E-03	22	22	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	
tert-Butylbenzene	8.0E+03	1.0E-03	15	13	0	2	0	13.3%	0.0%	3.5E-03	7.5E-02	1.2E-03	-	-	-	X	-	X	-	-	-		X	
Tetrachloroethylene (PCE)	1.6E-03	1.0E-03	66	60	10	6	2	9.1%	18.2%	2.9E-03	1.0E-01	1.2E-03	-	-	-	-	-	-	-	-	X	Retain for northwest corner and northern property boundary.	***	Tetrachloroethylene (PCE)
Toluene	5.5E-02	1.0E-03	143	116	39	27	11	18.9%	35.0%	2.5E+01	1.1E-01	2.5E-02	-	-	-	-	-	-	X	-	-	Present within TPH.	X	
Total xylenes	1.6E+04	2.0E-03	142	114	0	28	0	19.7%	0.0%	1.9E+02	1.1E-01	5.0E-03	-	-	-	X	-	X	-	-	-		X	
trans-1,2-Dichloroethylene	3.2E-01	1.0E-03	63	58	0	5	0	7.9%	0.0%	9.3E-03	1.0E-01	1.2E-03	-	-	-	X	-	X	-	-	-		X	
trans-1,3-Dichloropropene	6.3E-04	1.0E-03	22	22	22	0	0	0.0%	100.0%	-	7.5E-02	1.2E-03	-	-	X	-	-	-	-	-	-		X	
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	-	-	-	-	-	-	-	-		X	
Trichloroethylene (TCE)	2.7E-04	1.0E-03	66	37	37	29	29	43.9%	100.0%	8.3E-02	1.0E-01	1.2E-03	-	-	-	-	-	-	-	-	-		-	Trichloroethylene (TCE)
Trichlorofluoromethane (CFC-11)	2.4E+04	1.0E-03	22	22	0	0	0	0.0%	0.0%	-	7.5E-02	1.2E-03	-	X	X	X	X	X	-	-	-		X	

Table 7 - Evaluation Summary Table - COPCs in Soil

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%	Included within Other Group	Other (See Comment)	Retained in Portion of Site (see comment)	Comment	Summary	Retained Compound
Trichlorotrifluoroethane (CFC-113)	2.4E+06	-	19	19	0	0	0	0.0%	0.0%	-	1.5E-01	2.4E-03	-	X	-	X	X	X	-	-	-		X	
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	-	-	-		X	
Vinyl chloride	5.5E-05	1.0E-03	66	63	63	3	3	4.5%	100.0%	1.0E-02	1.0E-01	2.6E-03	-	-	-	-	-	-	-	-	X	Retain for northwest corner and northern property boundary.	***	Vinyl chloride

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.

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%.

Included within Other Group = the compound is represented within another chemical group (for example, individual PCB Aroclors are included within Total PCB Aroclors

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)

3 X indicates that the compound has been eliminated as a COPC; *** indicates that the compound is retained in a portion of the Site; '- indicates that the compound is a COPC

a Screened against the most stringent soil PCUL for non-potable groundwater. PCULs established by Ecology (June, 2018).

b PQL by surveying three laboratories. Value represents minimum PQL achievable for the compound.

This tables provides the COPC evaluation for soil.

Concentrations are in milligrams per kilogram.

COPC = chemical of potential concern; cPAH = carcinogenic polycyclic aromatic hydrocarbon; cPAH TEQ - cPAH toxic equivalency; HPAH = heavy polycyclic aromatic hydrocarbon; LNAPL = light nonaqueous phase liquid; LPAH = light polycyclic aromatic hydrocarbon; ND = non-detect; PAH = polycyclic aromatic hydrocarbon; PCB = polychlorinated biphenyl; PCUL = Preliminary Cleanup Level; PQL = practical quantitation limit; RL = reporting limit; TPH = total petroleum hydrocarbons; - = not applicable or not available

Table 8 - Proposed Investigation Locations and Sampling Schedule

								Soil Analyses												Groundwater Analyses												
LIF Boring	Groundwater Monitoring Well	Probe Boring	Location Name	Location Description	Rationale	Depth or Screen Interval (ft bgs)	Number[1] of Soil Samples	TPH-G	TPH-Dx	BTEX	HVOCs[2]	PAHs	Full List SVOCs	PCB aroclors	Metals[3]	Hexavalent Chromium	Total Organic Carbon	Porosity	Grain-Size Analysis	TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Full List SVOCs	Limited SVOCs[4]	PCB aroclors	PFAS[5]	Metals[6]	Hexavalent Chromium	Attenuation Indicators[7]
Area 1																																
x		x	A1-1 and A1-2	Area 1 LNAPL plume-center borings	Provide vertical delineation of LNAPL extent and residual soil contamination.	15	2/boring[8]		x			x																				
x			A1-3 through A1-14	Area 1 LNAPL plume-perimeter borings	Identify edge of LNAPL extents. Provide vertical delineation of LNAPL at each location.	15	0																									
	x		MW-55	Outside and NW of Hollowbore Area	Monitor Area 1 LNAPL plume to the NW.[9]	5-20	4		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.[9]	5-20	4		x			x			x						x	x	x		x					x		x
	x		MW-57	S of Hollowbore Area	Monitor Area 1 LNAPL plume to the SE.[9]	5-20	4		x			x			x						x	x	x		x					x		
	x		MW-58	E of Hollowbore Area	Monitor Area 1 LNAPL plume to the E.[9] Evaluate Shipping Area.	5-20	4		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.[9]	5-20	4		x			x			x						x	x	x		x					x		
	x		MW-22R	Outside and SW of Hollowbore Area	Optional well to be installed to replace lost well MW-22 (installed if MW-22 cannot be located).	5-20	4		x[10]			x[10]			x[10]																	
Area 1/9																																
		x	SB-2020-042	24-Inch JFOS Pipe	Evaluate decommissioned 24-inch pipe.	8	1		x			x		x																		
		x	SB-2020-043	24-Inch JFOS Pipe	Evaluate decommissioned 24-inch pipe.	8	1		x			x		x																		
		x	SB-2020-044	24-Inch JFOS Pipe	Evaluate decommissioned 24-inch pipe.	8	1		x			x		x																		
Area 2																																
x			A2-1 and A2-2	Area 2 LNAPL plume-center borings	Provide vertical delineation of LNAPL extent and residual soil contamination.	15	2/boring[8]		x			x																				
x			A2-3 through A2-10	Area 2 LNAPL plume-perimeter borings	Identify edge of LNAPL extent. Provide vertical delineation of LNAPL at each location.	15	0																									
	x		MW-60	Forge Shop Area	Monitor Area 2 LNAPL plume to the W.[9]	5-20	4	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 SW.[9]	5-20	4	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.	5-20	4		x				x		x						x	x[11]	x		x[11]	x			x	x		
	x		MW-73	Within aluminum heat treat building	Monitor Area 2 LNAPL plume to the E.[9]	5-20	4	x	x	x	x	x		x	x					x	x	x	x		x					x		
	x		MW-13R	W of aluminum heat treat building	Optional well to replace monitoring wells within Area 2 LNAPL plume.	5-20	4																									
	x		MW-74	W of ring expander vault	Evaluate ring expander vault and hydraulic oil tank.	5-20	4		x			x		x	x					x	x	x	x		x					x		
		x	SB-2020-030	Decommissioned Diesel Storage Area Vault	Evaluate Decommissioned Diesel Storage Area.	15	2		x			x			x																	
		x	SB-2020-031	Decommissioned Diesel Storage Area Vault	Evaluate Decommissioned Diesel Storage Area.	15	2		x			x			x																	
		x	SB-2020-032	Decommissioned Diesel Storage Area Fill Ports	Evaluate Decommissioned Diesel Storage Area.	15	2		x			x			x																	

Table 8 - Proposed Investigation Locations and Sampling Schedule

LIF Boring	Groundwater Monitoring Well	Probe Boring	Location Name	Location Description	Rationale	Depth or Screen Interval (ft bgs)	Number[1] of Soil Samples	Soil Analyses												Groundwater Analyses												
								TPH-G	TPH-Dx	BTEX	HVOCs[2]	PAHs	Full List SVOCs	PCB aroclors	Metals[3]	Hexavalent Chromium	Total Organic Carbon	Porosity	Grain-Size Analysis	TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Full List SVOCs	Limited SVOCs[4]	PCB aroclors	PFAS[5]	Metals[6]	Hexavalent Chromium	Attenuation Indicators[7]
Area 3																																
		x	SB-2020-033	Former unregistered 2,000-gallon UST	Evaluate for compliance at location of former UST.	15	2	x	x	x	x[12]																					
		x	SB-2020-034	Former unregistered 1,000-gallon UST	Evaluate for compliance at location of former UST.	15	2	x	x	x	x[12]																					
		x	SB-2020-035	Former registered 8,000-gallon UST	Evaluate for compliance at location of former UST.	15	2	x	x	x	x[12]																					
Area 4																																
	x		MW-10R	W of Decommissioned Oil Storage Area	Replace decommissioned well MW-10.	5-20	4		x	x	x	x			x						x	x	x		x			x		x		
		x	SB-2020-036	Decommissioned Oil Storage Area Vault	Evaluate Decommissioned Oil Storage Area.	15	2		x			x			x																	
		x	SB-2020-037	Decommissioned Oil Storage Area Vault	Evaluate Decommissioned Oil Storage Area.	15	2		x			x			x																	
			SB-2020-045	Machine Shop Area	Investigate Large Bullard.	10	2	x[13]	x		x[14]	x		x	x																	
Area 5																																
	x		MW-62	W of MW-10R	Monitor downgradient of MW-10R.	5-20	4		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.	5-20	4		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.	45-60	3		x			x			x						x	x	x		x			x	x	x		
	x		MW-75	Machine Shop Area	Evaluate Machine Shop Area	5-20	4		x	x			x		x						x	x	x			x		x		x		
		x	SB-2020-001	N of bar peeler	Evaluate in vicinity of FB-3 TPH-O detection.	10	2		x			x			x																	
		x	SB-2020-002	S of bar peeler	Evaluate in vicinity of FB-3 TPH-O detection.	10	2		x			x		x	x																	
		x	SB-2020-028	E of bar peeler	Evaluate in vicinity of FB-3 TPH-O detection.	10	2		x			x			x																	
		x	SB-2020-003	Heat Treat Area	Complete coverage within center of main building. Investigate West and East Craven Vaults.	15	3		x	x	x	x			x																	
		x	SB-2020-004	Heat Treat Area	Complete coverage within center of main building. Investigate Quench Tanks 1, 2, and 3 vault.	30	5		x	x	x	x		x	x		x		x													
		x	SB-2020-006	Forge Shop Area	Complete coverage within Forge Shop Area.	15	3		x			x			x																	
		x	SB-2020-027	Machine Shop Area	Evaluate Machine Shop Area. Investigate Tacchi Lathe vault.	15	3		x			x			x																	
		x	SB-2020-029	Machine Shop Area	Evaluate Machine Shop Area. Investigate Large Bullard.	10	2	x[13]	x			x			x																	
		x	SB-2020-038	Heat Treat Area	Complete coverage within center of main building. Investigate West and East Craven Vaults.	15	3		x			x		x	x																	

Table 8 - Proposed Investigation Locations and Sampling Schedule

LIF Boring	Groundwater Monitoring Well	Probe Boring	Location Name	Location Description	Rationale	Depth or Screen Interval (ft bgs)	Number[1] of Soil Samples	Soil Analyses: TPH-G	Soil: TPH-Dx	Soil: BTEX	Soil: HVOCs[2]	Soil: PAHs	Soil: Full List SVOCs	Soil: PCB aroclors	Soil: Metals[3]	Soil: Hexavalent Chromium	Soil: Total Organic Carbon	Soil: Porosity	Soil: Grain-Size Analysis	Groundwater Analyses: TPH-G	GW: TPH-Dx	GW: BTEX	GW: HVOCs	GW: MTBE	GW: PAHs	GW: Full List SVOCs	GW: Limited SVOCs[4]	GW: PCB aroclors	GW: PFAS[5]	GW: Metals[6]	GW: Hexavalent Chromium	GW: Attenuation Indicators[7]
Area 6																																
	x		MW-66	N end of property west of Truck Scale	Monitor N property boundary. Assess former Bethlehem Steel galvanizing plant.	5-20	4		x	x	x	x			x		x		x		x	x	x		x			x		x		
	x		MW-76	SE of Truck Scale	Complete coverage within Former BSF footprint.	5-20	4		x				x		x						x	x	x		x	x				x		
		x	SB-2020-005	W of Melt Bag House	Complete coverage within Former BSF footprint.	25	5		x	x	x	x			x																	
		x	SB-2020-009	SW of Former Steam Clean Area	Complete coverage within Former BSF footprint. Evaluate Former Steam Clean Area.	15	3	x	x	x	x	x			x																	
		x	SB-2020-039	N of Former Steam Clean Area	Complete coverage within Former BSF footprint. Evaluate Former Steam Clean Area.	15	3	x	x	x	x	x			x																	
Area 6/8																																
	x		MW-65	NW of stormwater treatment system	Monitor Former Bethlehem Steel Facility footprint with former embayment.	5-20	4		x	x	x	x		x	x	x	x		x	x	x	x	x		x		x	x		x		
		x	SB-2020-007	E of Melt Bag House	Complete coverage within Former BSF footprint.	25	5		x			x		x	x																	
		x	SB-2020-008	E MW-6	Complete coverage within Former BSF footprint.	25	5		x	x	x	x		x	x																	
Area 7																																
	x		MW-67	SW of Former Metals Storage Area bins	Monitor within the Former Metals Storage Area and unpaved slag storage area.	5-20[15]	4		x		x		x		x	x	x		x		x	x	x			x		x		x		
		x	SB-2020-010	E of Arc Furnace Vault	Complete coverage within Former Melt Shop.	15	3		x			x			x																	
		x	SB-2020-012	N of Swarf Stockpile Area	Evaluate NE portion of Former Metals Storage Area.	15	3		x			x			x																	
		x	SB-2020-040	W of Arc Furnace Vault	Complete coverage within Former Melt Shop.	15	3		x			x			x																	
Area 7/8																																
	x		MW-68	W of Former Metals Storage Area	Monitor downgradient of Former Metals Storage Area.	5-20	4		x	x	x		x	x	x						x	x	x			x		x	x	x		
		x	SB-2020-011	E of Former Metals Storage Area	Complete coverage E of Former Metals Storage Area and within unpaved slag storage area.	15[15]	3		x			x			x																	
Area 8																																
	x		MW-53	Shoreline W of Melt Bag House	Monitor shoreline.	5-20	4		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.	5-20	4		x	x	x	x		x	x			x			x	x	x		x		x	x		x		
		x	SB-2020-013	W of Former Acid Pit	Evaluate metals and PCBs along shoreline.	25	5		x			x		x	x		x		x													

Table 8 - Proposed Investigation Locations and Sampling Schedule

LIF Boring	Groundwater Monitoring Well	Probe Boring	Location Name	Location Description	Rationale	Depth or Screen Interval (ft bgs)	Number[1] of Soil Samples	Soil Analyses: TPH-G	TPH-Dx	BTEX	HVOCs[2]	PAHs	Full List SVOCs	PCB aroclors	Metals[3]	Hexavalent Chromium	Total Organic Carbon	Porosity	Grain-Size Analysis	Groundwater Analyses: TPH-G	TPH-Dx	BTEX	HVOCs	MTBE	PAHs	Full List SVOCs	Limited SVOCs[4]	PCB aroclors	PFAS[5]	Metals[6]	Hexavalent Chromium	Attenuation Indicators[7]
Area 9																																
	x		MW-69	NW of Black Shack Motor Storage	Monitor NW corner of property.	5-20	4		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.	45-60	3													x	x	x	x		x			x		x		
	x		MW-71	N property boundary east of Truck Scale	Monitor N property boundary.	5-20	4		x	x	x	x			x					x	x	x	x		x			x	x	x		
		x	SB-2020-014	W of Black Shack Motor Storage	Evaluate TPH and PCBs in NW corner.	25	5	x	x	x	x	x		x	x																	
		x	SB-2020-015	E of Black Shack Motor Storage	Evaluate TPH and metals in NW corner.	25	5	x	x	x	x	x		x	x																	
		x	SB-2020-016	S of Black Shack Motor Storage	Evaluate TPH and PCBs in NW corner.	25	5	x	x	x	x	x		x	x																	
		x	SB-2020-017	W of Truck Scale	Complete coverage.	15	3	x	x	x	x	x		x	x																	
		x	SB-2020-041	E of Diesel Fueling and Used Oil Storage Building	Evaluate Diesel Fueling and Used Oil Storage Building.	15	3	x	x	x	x	x		x	x																	
		x	SB-2020-018 through SB-2020-026	S of OA-11	Provide further delineation of PCBs from Boeing OA-11.	12	6/boring		x					x																		

NOTES:
1 Indicates number of soil samples to be collected; some (deeper) samples to be held for potential analysis. Additional samples may be collected based on field screening
2 HVOCs include 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride
3 Metals include arsenic, barium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, vanadium, and zinc
4 Limited SVOCs include bis(2)ethylhexyl phthalate, dibutyl phthalate, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 2,4-dimethyphenol, benzoic acid, butyl benzyl phthalate, n-nitrosodiphenylamine, and pentachlorophenol
5 To be analyzed during one event for EPA's third UCMR list of six perfluorinated compounds (perfluorobutanesulfonic acid, perfluorohexanesulfonic acid, perfluoroheptanoic acid, perfluorooctanoic acid, perfluorooctanesulfonic acid, and perfluorononanoic acid
6 Metals include total and dissolved metals, including arsenic, barium, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, vanadium, and zinc
7 Natural attenuation parameters include dissolved oxygen (field reading), nitrate, nitrite, sulfate, sulfite, ferrous iron, manganese, and methane
8 Soil samples to be collected from probe boring completed following LIF investigation. Soil samples to be collected from depth with highest LIF response and from below residual soil contamination
9 To be located outside of LNAPL plume footprint; position may be adjusted following plume delineation.
10 Analyze if visible LNAPL is not observed.
11 To be analyzed if TPH is detected within the sample.
12 Analyze the two soil samples with highest contamination within Area 3 (from two different borings) for HVOCs.
13 Analyze one sample (with highest contamination) for TPH-G
14 Analyze one sample for HVOCs.
15 Sample depths to include a near-surface soil sample
Investigation locations are shown in Figures 20A and 20B. Locations may be adjusted in the field as required to avoid utilities and in response to findings from previous points
BSF = Bethlehem Steel Facility; BTEX = benzene, toluene, ethylbenzene, and xylenes; E = east; ft bgs = feet below ground surface; EPA = U.S. Environmental Protection Agency; HVOCs = halogenated volatile organic compounds; LNAPL = light nonaqueous phase liquid; N = north; NE = northeast; NSZD = natural source zone depletion; NW = northwest; OA-11 = Boeing Other Area 11; PAHs = polycyclic aromatic hydrocarbons; PCBs = polychlorinated biphenyls; PFAS = per- and polyfluoroalkyl substances; S = south; SE = southeast; SVOCs = semi-volatile organic compounds; SW = southwest; TPH-Dx = total petroleum hydrocarbons diesel extended; TPH-G = gasoline-range petroleum hydrocarbons; TPH-O = oil-range petroleum hydrocarbons; UCMR = Unregulated Contaminant Monitoring Rule; W = west.

Table 9 - Proposed Sampling Schedule for Existing Monitoring Wells

Well Identification	Location on Site	TPH-G	TPH-Dx	BTEX	HVOCs[a]	MTBE	PAHs	Full List SVOCs	Limited SVOCs[b]	PCBs (Aroclors)	PFAS[c]	Arsenic	Chromium	Manganese	Nickel	Cadmium	Cobalt	Copper	Lead	Mercury	Selenium	Silver	Zinc	Hexavalent Chromium	Attenuation Indicators[d]
Area 1																									
MW-9	East of shipping area	x	x	x								x		x		x		x							
MW-25	West of hollowbore area				x		x					x													
MW-30	South of hollowbore area	x	x		x									x											x
MW-48	West of hollowbore area			x																					
Area 1/9																									
MW-23	North of shipping area		x		x					x		x	x	x										x	x
MW-24	West of main office				x				x	x		x													
MW-49	North of main office			x	x							x		x	x	x		x	x	x	x	x	x		
Area 2																									
MW-7	Southeast corner of site												x											x	
MW-14	North of aluminum heat treat area	x	x	x	x	x			x			x	x	x	x	x	x	x	x	x	x	x	x		x
MW-15	Northeast of aluminum heat treat	x	x		x												x								x
MW-32	East of forge shop area	x	x				x		x			x													
MW-34	West of aluminum heat treat area	x	x																						
MW-36	East portion of forge shop area	x	x	x	x							x	x	x	x	x	x	x	x	x	x	x	x		x
MW-37	South of forge shop area	x	x	x	x		x					x		x	x			x			x		x		
Area 3																									
MW-3	South of front gate	x	x	x	x	x													x						
MW-4	Near front gate	x	x	x		x						x		x	x	x		x	x	x	x	x	x		
MW-8	Southwest of front gate	x	x	x		x					x	x			x					x	x	x	x		
Area 4																									
MW-11	East of human resources office	x	x			x						x		x											
Area 5																									
MW-40	West of 5,000-ton press		x		x		x		x			x		x	x	x		x	x	x	x	x	x		
MW-41	West of 5,000-ton press		x		x		x		x			x		x	x	x		x	x	x	x	x	x		
Area 6																									
MW-31	West of machine shop		x		x		x		x																
MW-45	West of heat treat area		x	x	x					x				x											
MW-46	West of laboratory	x	x	x	x		x		x			x	x	x	x			x	x	x	x	x	x	x	
Area 6/8																									
MW-6	Northwest of former melt shop	x	x	x	x					x		x						x							
Area 7																									
MW-38	Southwest of forge shop area	x	x	x										x											
Area 7/8																									
MW-39	Southwest of former melt shop	x	x	x	x					x		x	x	x	x								x	x	
MW-42	West of former melt shop area[1]		x	x	x					x			x	x						x					
MW-43	West of former melt shop area[1]		x	x	x					x	x			x											
MW-44	West of former melt shop area[1]		x	x	x					x				x						x					
Area 8																									
MW-47	Southwest of baghouse[1]				x			x		x			x											x	

Table 9 - Proposed Sampling Schedule for Existing Monitoring Wells

Well Identification	Location on Site	TPH-G	TPH-Dx	BTEX	HVOCs[a]	MTBE	PAHs	Full List SVOCs	Limited SVOCs[b]	PCBs (Aroclors)	PFAS[c]	Arsenic	Chromium	Manganese	Nickel	Cadmium	Cobalt	Copper	Lead	Mercury	Selenium	Silver	Zinc	Hexavalent Chromium	Attenuation Indicators[d]
Area 9																									
MW-50	East of black shack motor storage[1]			x	x					x				x											
MW-51	North of black shack motor storage[1]	x			x				x	x															
MW-52	South of black shack motor	x		x	x		x			x				x											

NOTES:

1 Located near shoreline; sample collection to occur within one hour before low tide and no later than three hours after low tide.

a HVOCs to include 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride.

b Limited SVOCs to include bis(2-ethylhexyl phthalate), dibutyl phthalate, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 2,4-dimethyphenol, benzoic acid, butyl benzyl phthalate, n-nitrosodiphenylamine, and pentachlorophenol.

c To be analyzed during one event for EPA's third UCMR list of six perfluorinated compounds (perfluorobutanesulfonic acid, perfluorohexanesulfonic acid, perfluoroheptanoic acid, perfluorooctanoic acid, perfluorooctanesulfonic acid, and perfluorononanoic acid).

d Natural attenuation parameters include dissolved oxygen (field reading), nitrate, nitrite, sulfate, sulfite, ferrous iron, manganese, and methane.

Quality Assurance/Quality Control (QA/QC) samples to be collected in accordance with Sampling and Analysis Plan and Quality Assurance Project Plan. Samples will include field duplicates, matrix spike/matrix spike dilution (MS/MSD) samples, equipment blanks, trip blanks, and temperature blanks. Field duplicates will be assigned a "dummy" name and time and will be analyzed for the same suite as the original well. MS/MSD samples will be labeled with "MS/MSD" and the source well identification. Two equipment blanks will be collected during the event by running distilled water through new (unused) sample tubing. One trip blank will be included within each cooler with volatile samples (grouped into as few coolers as possible). A temperature blank will be included in each cooler.

BTEX = benzene, toluene, ethylbenzene, and total xylenes; EPA = U.S. Environmental Protection Agency; HVOCs = halogenated volatile organic compounds; MTBE = methyl tert butyl ether; PAHs = polycyclic aromatic hydrocarbons; PCBs = polychlorinated biphenyls; PFAS = per- and polyfluoroalkyl substances; SVOCs = semivolatile organic compounds; TPH-Dx = total petroleum hydrocarbons as diesel extended; TPH-G = total petroleum hydrocarbons as gasoline; UCMR = Unregulated Contaminant Monitoring rule; x = analysis to be performed.

0 0.5 1

Approximate Scale in Mile

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

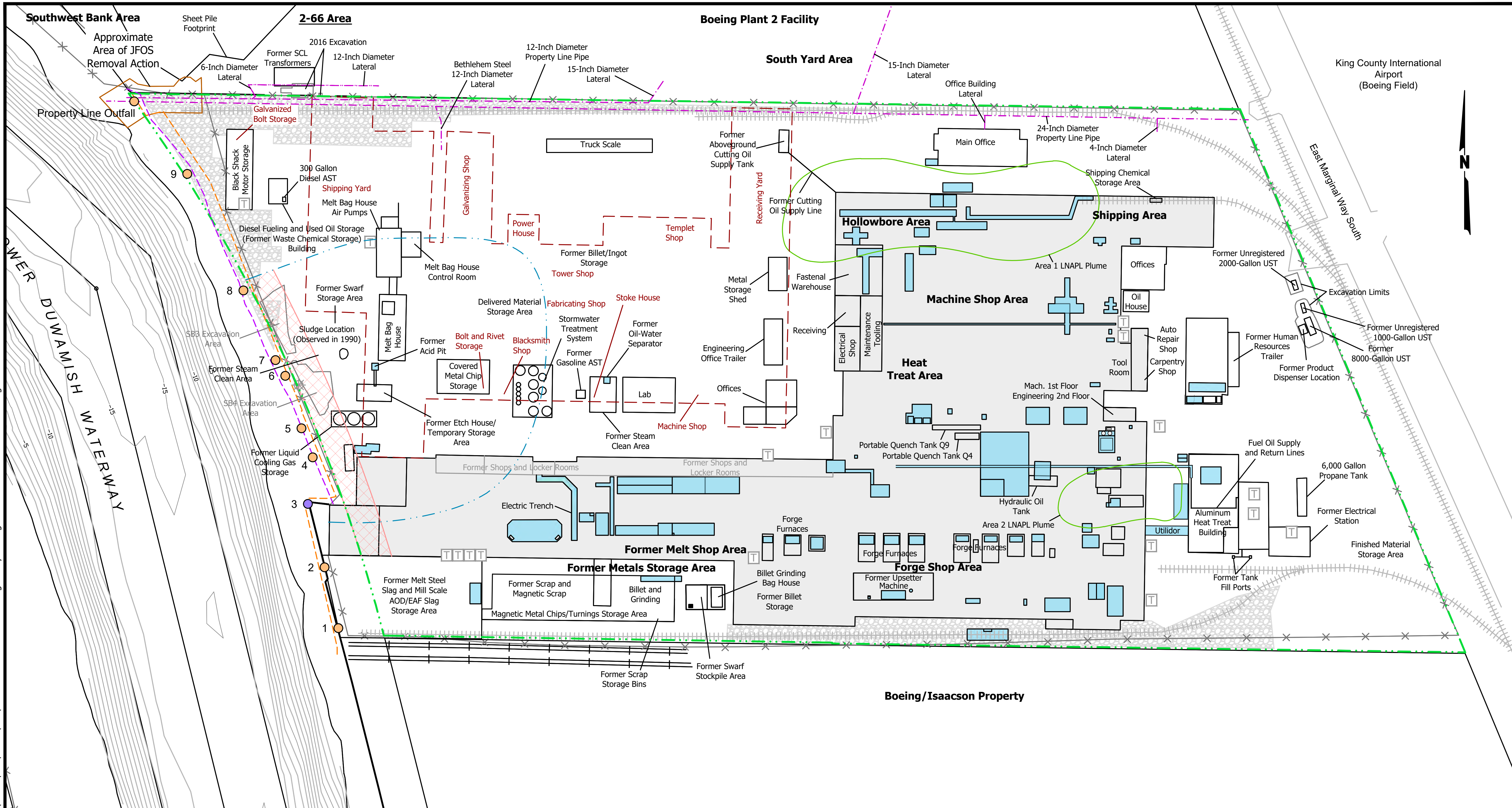
SITE LOCATION MAP

April 2020 21-1-12596-013

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 1

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\013\21-1-12596-013 Site Location.dwg Date: 04-14-2020 Login: JRS



Filename: C:\Users\jrs\CAD Group Dropbox\J Drive\211\12596\013\21-1-12596-013 Site Plan.dwg Layout: Figure 2 Date: 04-14-2020 Login: JRS

NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017, and *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.
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 Steel Facility
- Former Embayment
- Property Line Outfall Pipes
- Estimated Extent of LNAPL on Groundwater (Farallon, August 2009)
- Approimate Excavation Extents
- Bulkhead Area
- 3 Outfall (Active)
- 9 Outfall (Inactive)
- Railroad
- Fence
- Transformer
- Below Ground Feature

0 120 240

Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

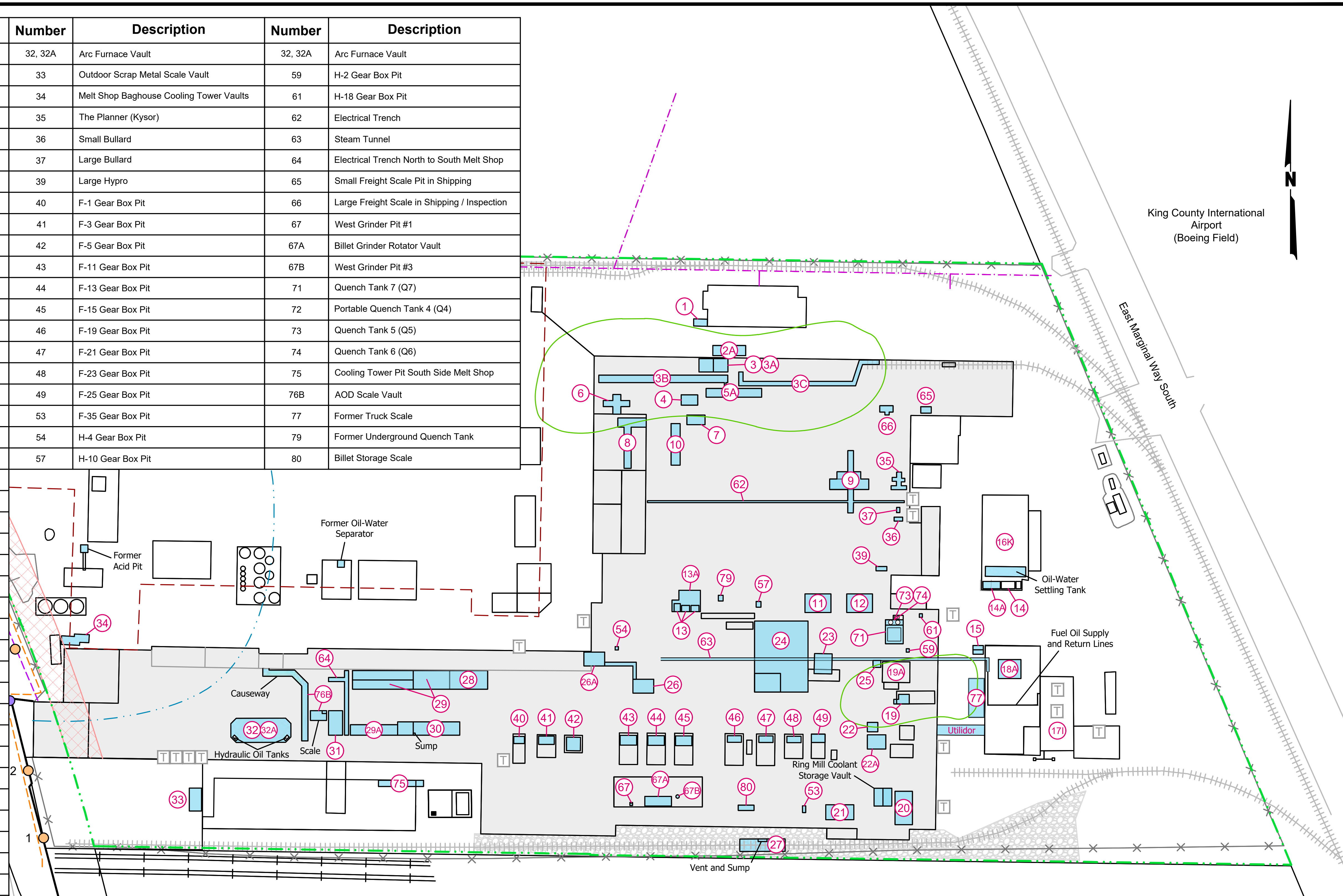
SITE PLAN

April 2020 21-1-12596-013

SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 2

Number	Description	Number	Description	Number	Description
1	Office Building Heating Oil UST	32, 32A	Arc Furnace Vault	32, 32A	Arc Furnace Vault
2	Hollowbore 59/60 Lathes Cutting Oil Holding Tank	33	Outdoor Scrap Metal Scale Vault	59	H-2 Gear Box Pit
2A	Hollowbore 59/60 Lathes Cutting Oil Holding Tank Vault	34	Melt Shop Baghouse Cooling Tower Vaults	61	H-18 Gear Box Pit
3	Hollowbore 59 Lathe Vault	35	The Planner (Kysor)	62	Electrical Trench
3A	Hollowbore 60 Lathe Vault	36	Small Bullard	63	Steam Tunnel
3B	Hollowbore 58 Oil-Return Trench	37	Large Bullard	64	Electrical Trench North to South Melt Shop
3C	Tacchi #2	39	Large Hypro	65	Small Freight Scale Pit in Shipping
4	Frenchman 63 Lathe Vault	40	F-1 Gear Box Pit	66	Large Freight Scale in Shipping / Inspection
5A	Hollowbore 58 Lathe Vault	41	F-3 Gear Box Pit	67	West Grinder Pit #1
6	Ingersoll	42	F-5 Gear Box Pit	67A	Billet Grinder Rotator Vault
7	Carlton	43	F-11 Gear Box Pit	67B	West Grinder Pit #3
8	Tacchi	44	F-13 Gear Box Pit	71	Quench Tank 7 (Q7)
9	Bueltmann Bar Peeler Oil-Return Vault	45	F-15 Gear Box Pit	72	Portable Quench Tank 4 (Q4)
10	MAE	46	F-19 Gear Box Pit	73	Quench Tank 5 (Q5)
11	West Craven Lathe Vault	47	F-21 Gear Box Pit	74	Quench Tank 6 (Q6)
12	East Craven Lathe Vault	48	F-23 Gear Box Pit	75	Cooling Tower Pit South Side Melt Shop
13	Quench Tanks 1, 2, and 3 (Q1, Q2, and Q3)	49	F-25 Gear Box Pit	76B	AOD Scale Vault
13A	Quench Tanks 1, 2, and 3 (Q1, Q2, and Q3) Vault	53	F-35 Gear Box Pit	77	Former Truck Scale
14	Oil-Water Separator (Decommissioned Oil Storage Area)	54	H-4 Gear Box Pit	79	Former Underground Quench Tank
14	Waste Oil Tank	57	H-10 Gear Box Pit	80	Billet Storage Scale
14A	Waste Oil Tank 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				



NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017, and *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.

2. Numbering System for Below Ground Features Obtained from SoundEarth.

Explanation

- 1 — Table Designation for Below Ground Features
- Approximate Property Boundary
- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Bethlehem Steel Facility
- Former Embayment
- Property Line Outfall Pipes
- Estimated Extent of LNAPL on Groundwater (Farallon, August 2009)
- Appoximate Excavation Extents
- Wharf Area
- 3 — Outfall (Active)
- 9 — Outfall (Inactive)
- Railroad
- Fence
- Transformer
- Below Ground Feature

0 120 240

Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

BELOW GROUND FEATURES

April 2020 21-1-12596-013

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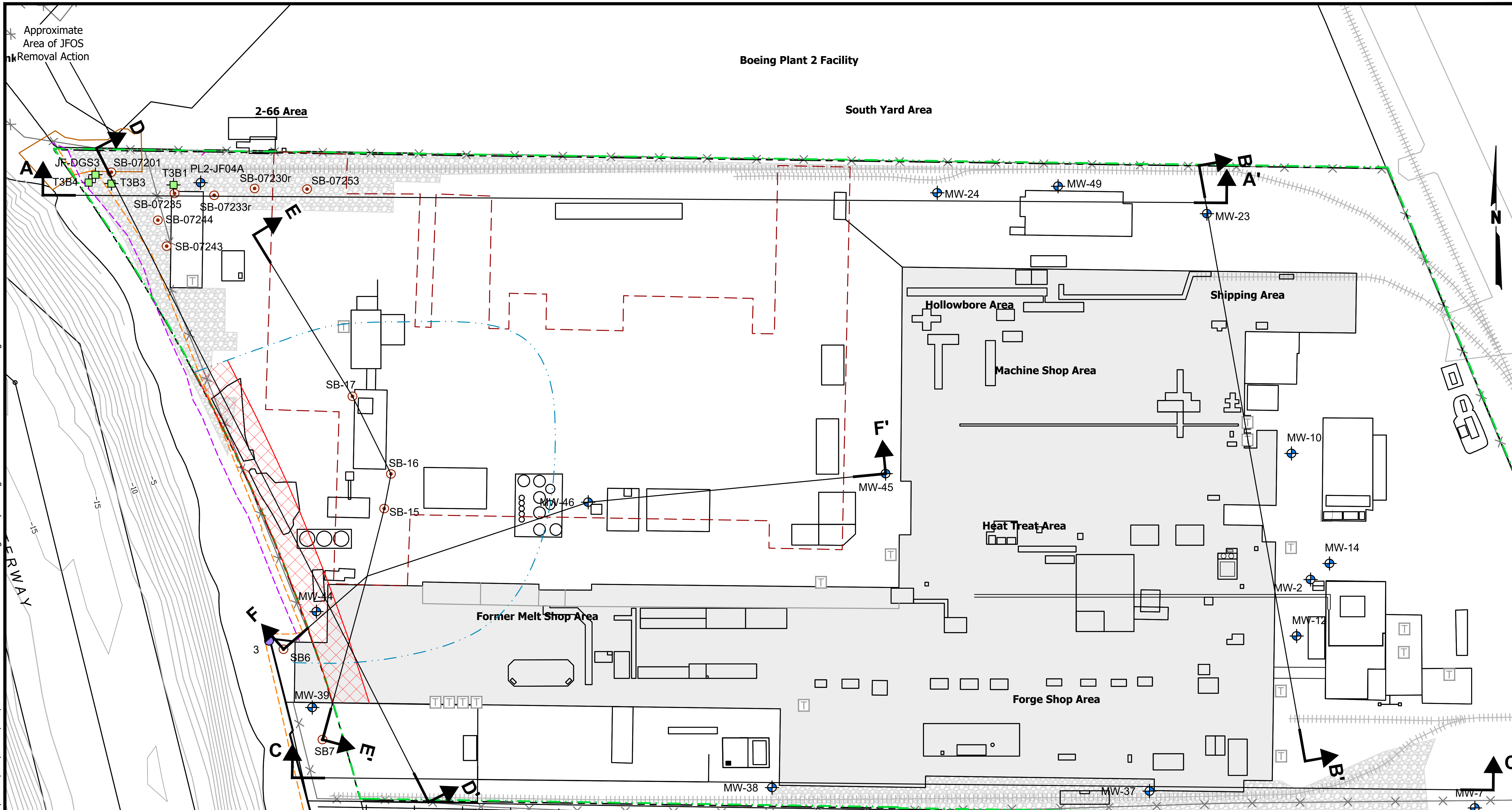
FIG. 3

Filename: C:\Users\jrs\CAD Group Dropbox\Drive\211\12596\013\21-1-12596-013 Site Plan.dwg Layout: Figure 3 Date: 04-14-2020 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)
	Transformer
SB-19	Soil Boring Location (Various)
T3B2	Probe Boring (Floyd|Snyder)
MW-23	Monitoring Well Location (Various)
MW-2	Decommissioned
A	Generalized Subsurface Profile (See Figures 11 through 14)

NOTE

Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.

0 100 200

Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

CROSS SECTION LOCATION MAP

April 2020 21-1-12596-013

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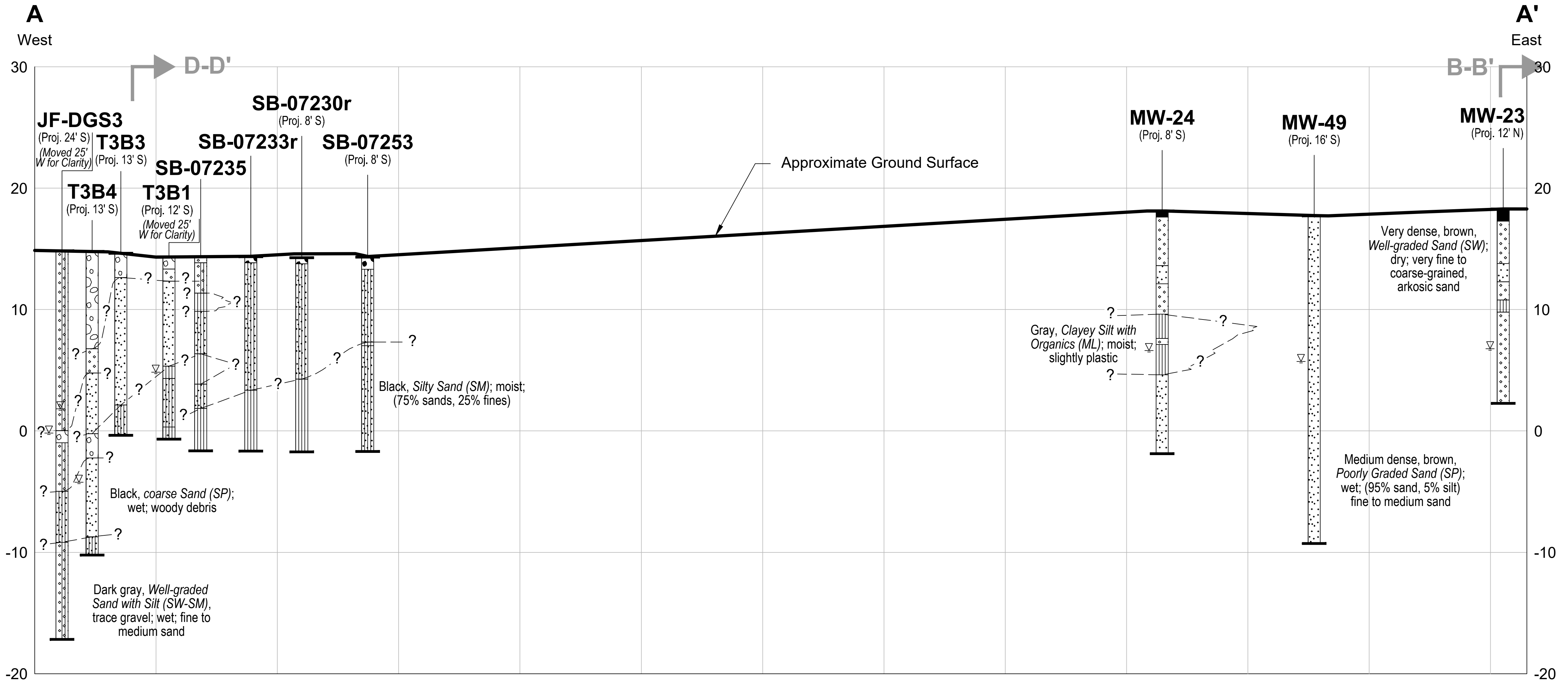
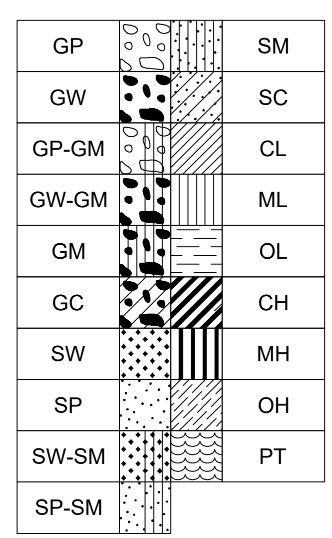
FIG. 4

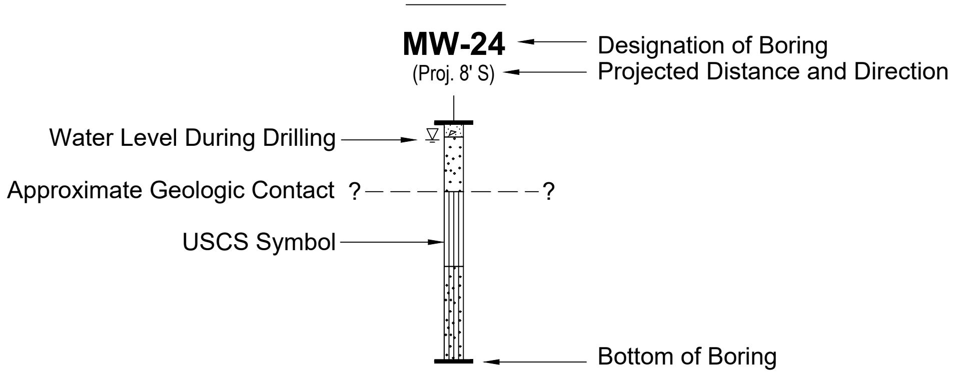
Filename: C:\Users\jrs\CAD Group Dropbox\J Drive\211\12596\013\21-1-12596-013 Cross Sections Plan.dwg Layout: Figure 4 Date: 04-14-2020 Login: JRS

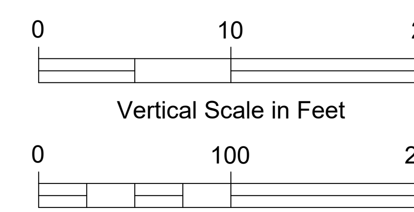


UNIFIED SOIL CLASSIFICATION SYSTEM



LEGEND





Vertical Exaggeration = 10X

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'

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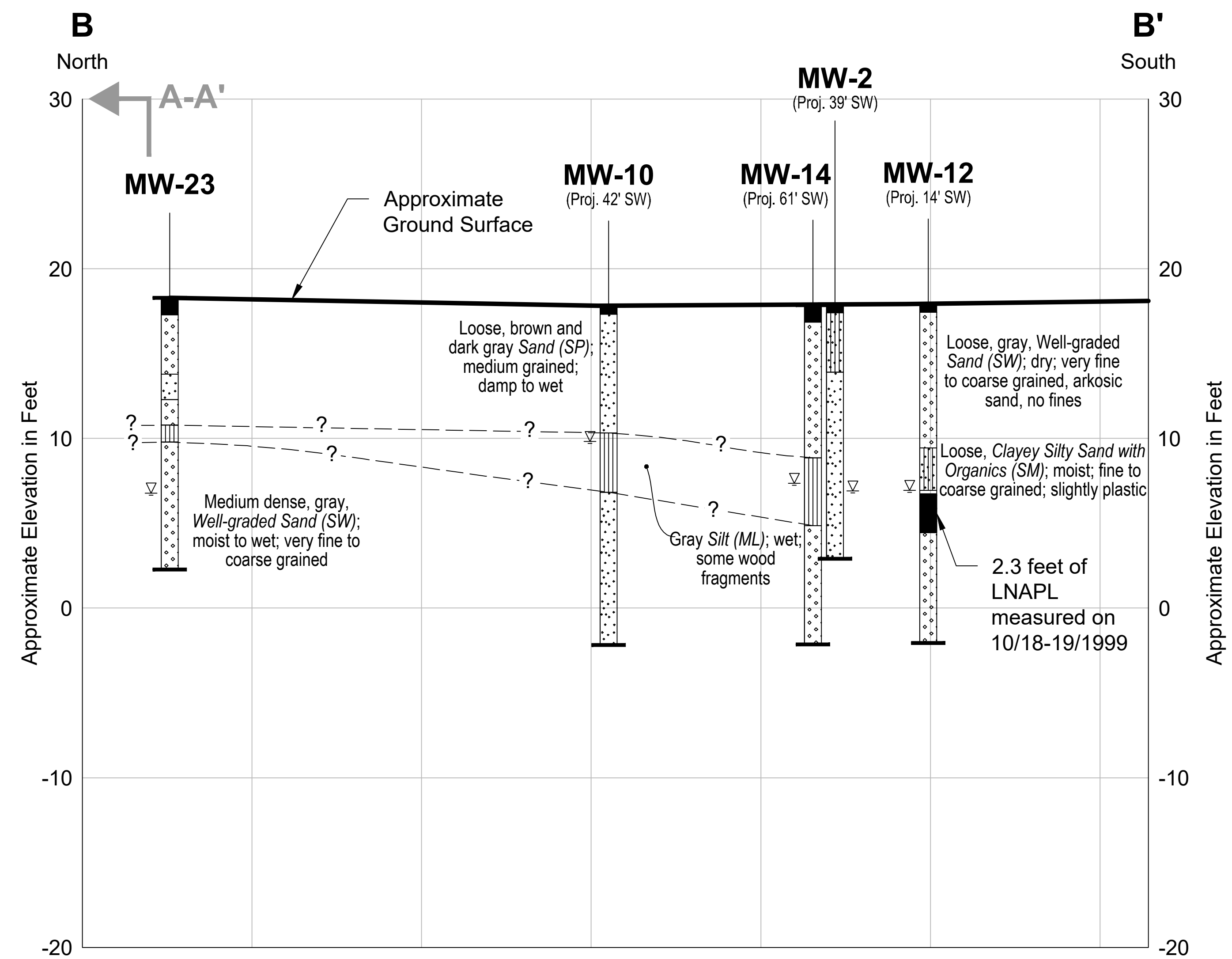
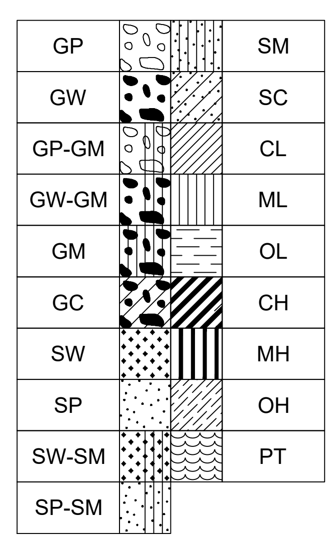
FIG. 5

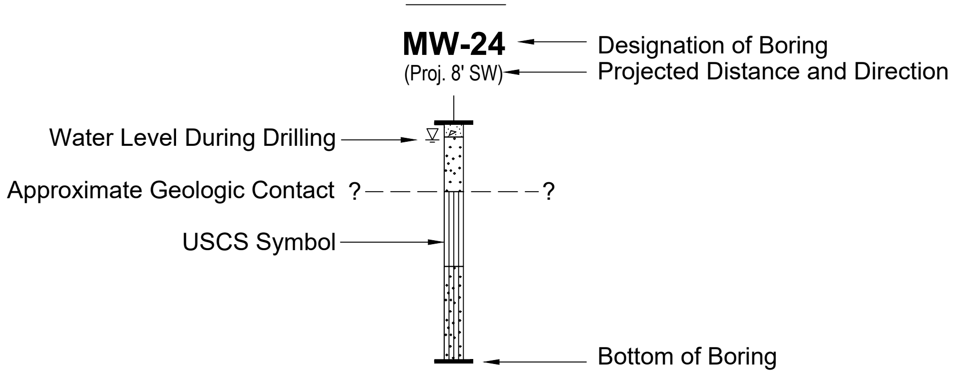
Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\013\21-1-12596-013 Profiles.dwg Layout: A-A' Date: 04-14-2020 Login: JRS

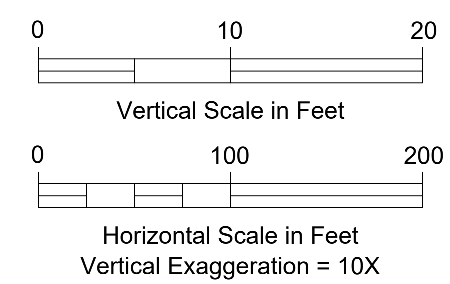


UNIFIED SOIL CLASSIFICATION SYSTEM



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 B-B'

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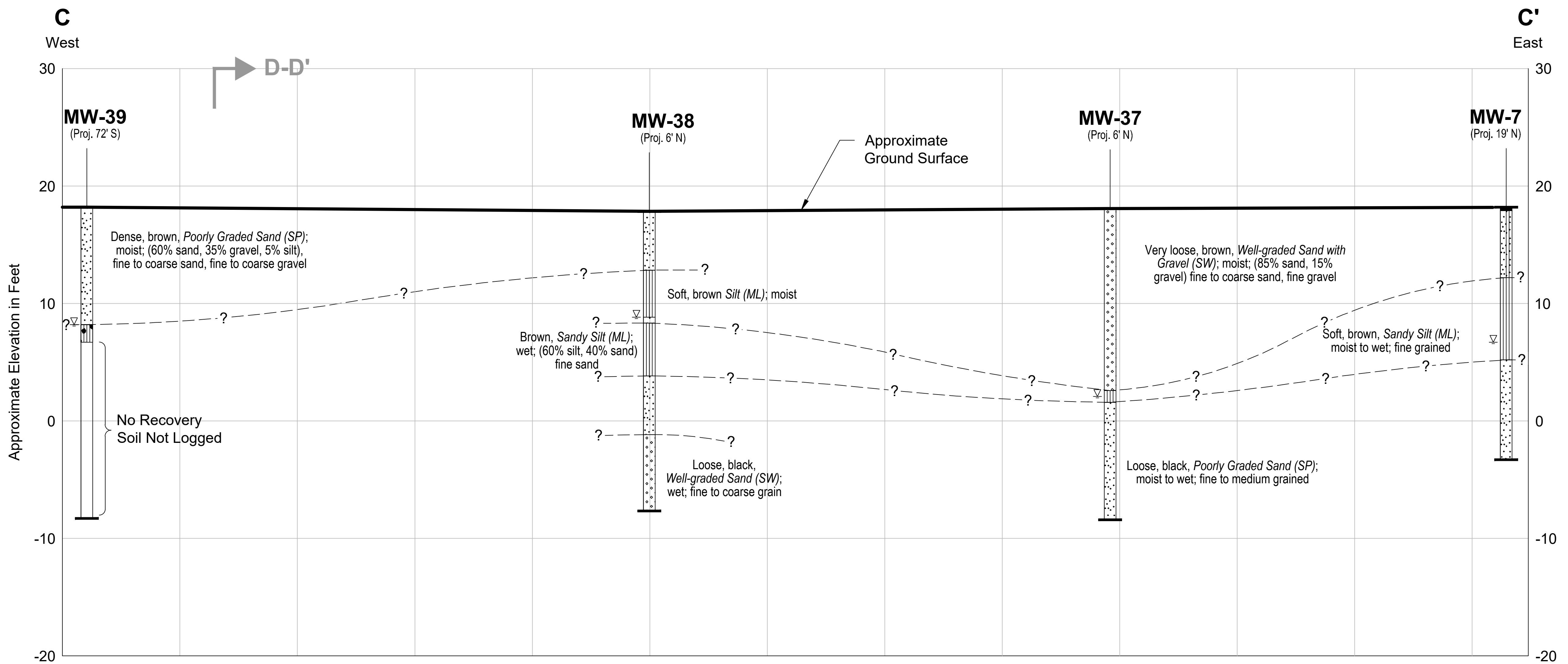
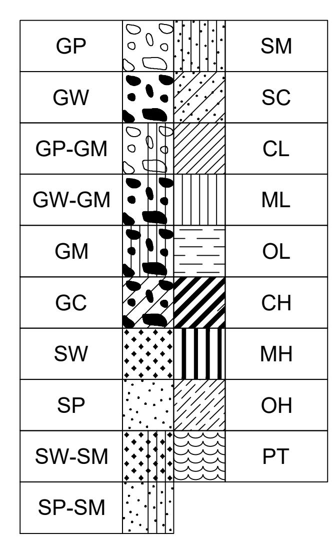
FIG. 6

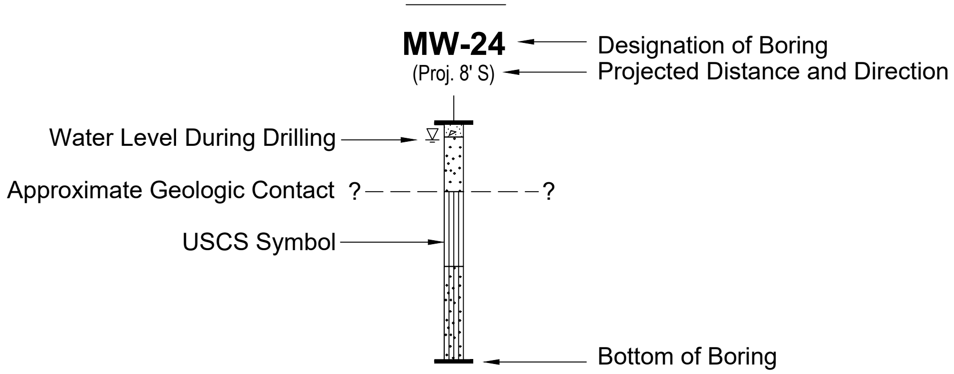
Filename: C:\Users\jrs\CAD Group Dropbox\UDrive\211\12596\013\21-1-12596-013 Profiles.dwg Layout: B-B' Date: 04-14-2020 Login: JRS

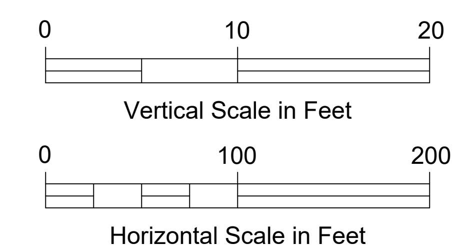


UNIFIED SOIL CLASSIFICATION SYSTEM



LEGEND





Vertical Exaggeration = 10X

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 C-C'

April 2020 21-1-12596-013

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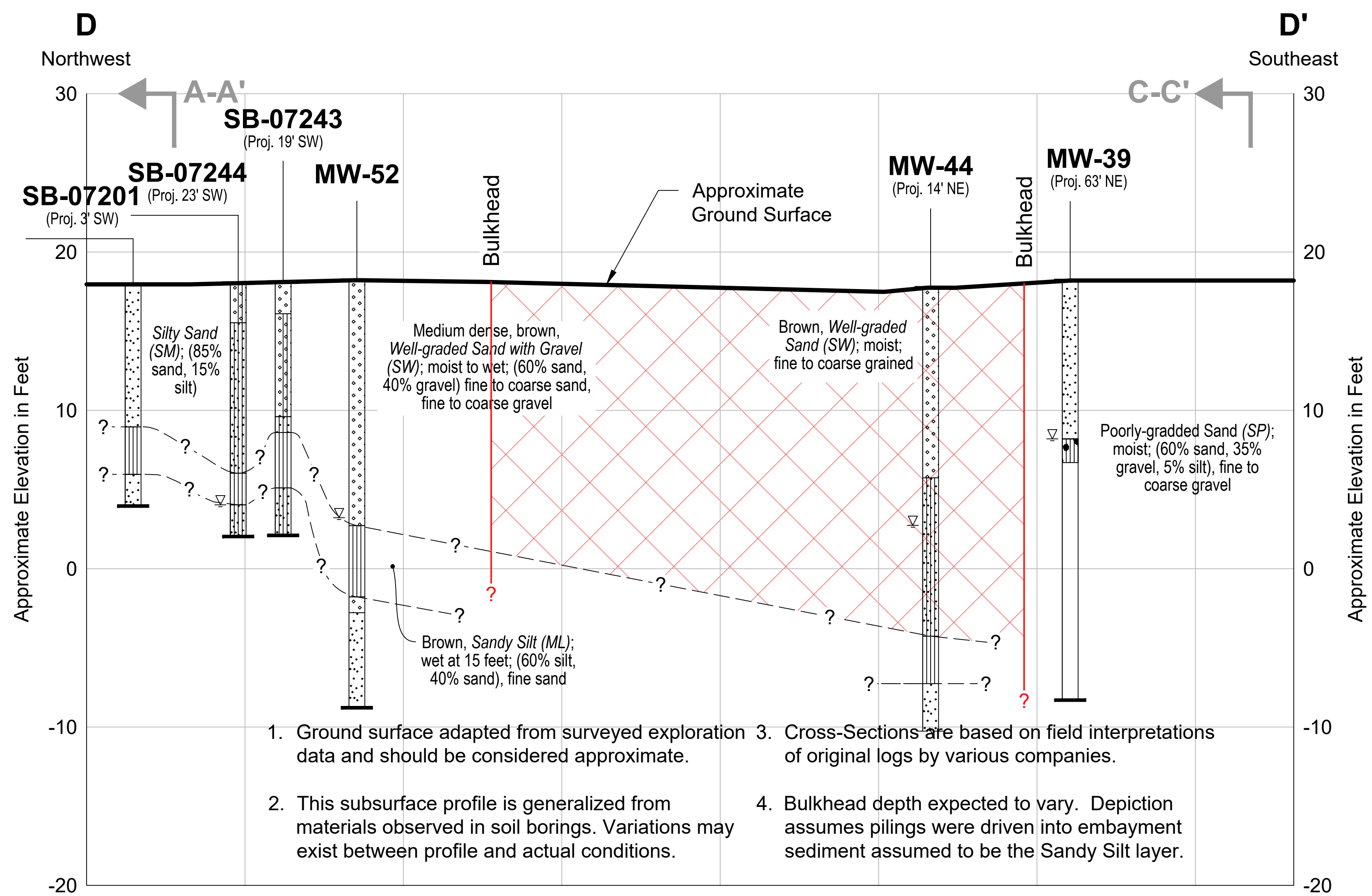
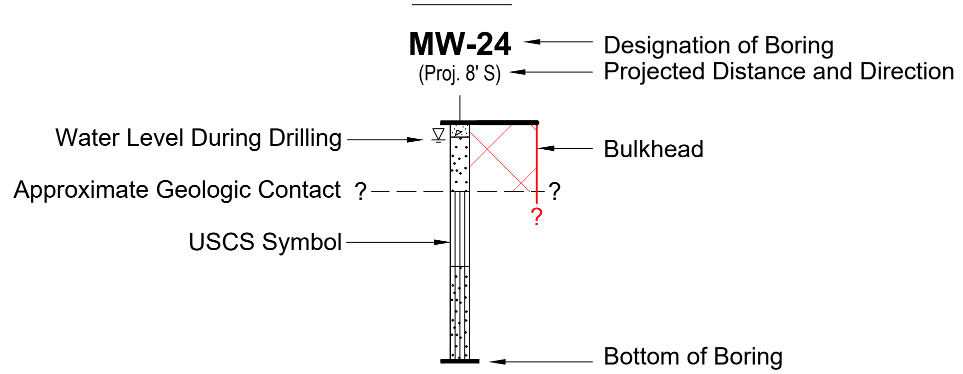
FIG. 7

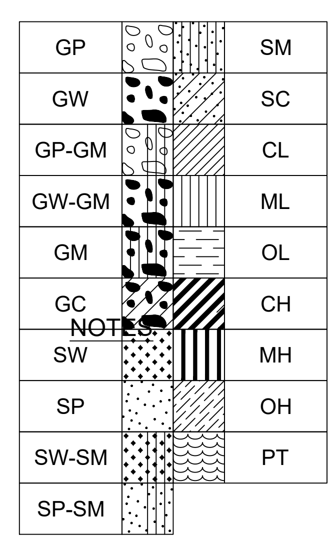


1. Ground surface adapted from surveyed exploration data and should be considered approximate.
2. This subsurface profile is generalized from materials observed in soil borings. Variations may exist between profile and actual conditions.
3. Cross-Sections are based on field interpretations of original 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

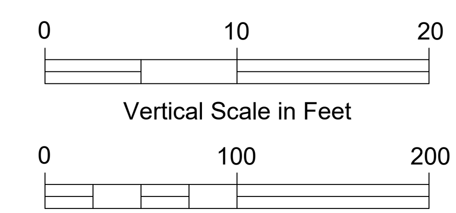


UNIFIED SOIL CLASSIFICATION SYSTEM



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.



Vertical Exaggeration = 10X

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GENERALIZED SUBSURFACE PROFILE D-D'

April 2020 21-1-12596-013

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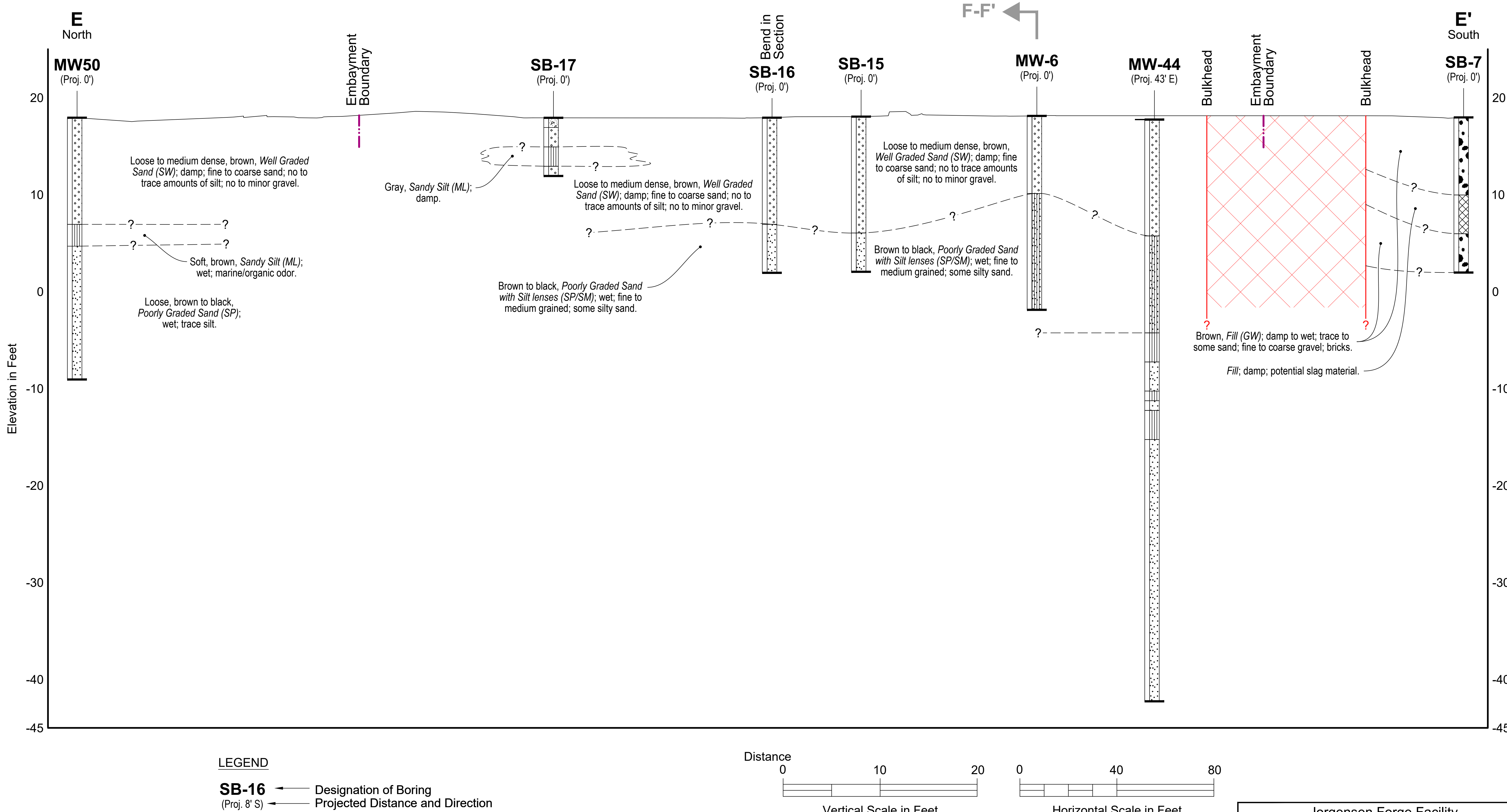
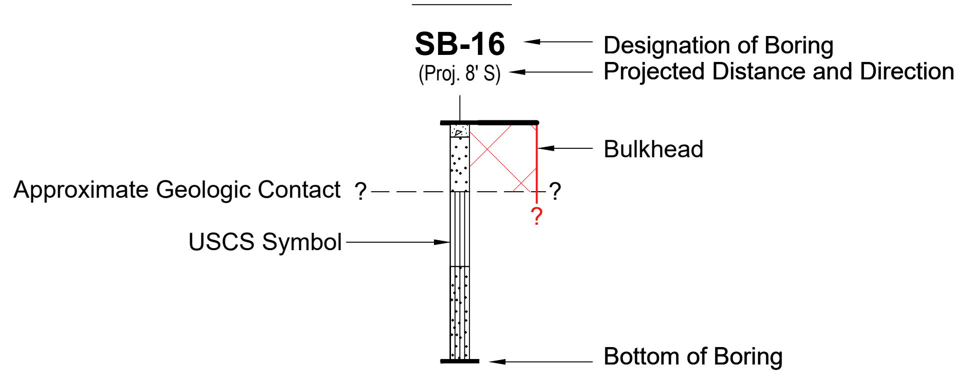
FIG. 8

Filename: E:\211\12596\013\21-1-12596-013 Profiles.dwg Layout: D-D' Date: 03-23-2020 Login: JRS



LEGEND



NOTES

1. Ground surface adapted from surveyed exploration data and should be considered approximate.
2. Figure adapted from client file, *11078 Topo E-MAIL.dwg,* dated January 2002.
3. This subsurface profile is generalized from materials observed in soil borings. Variations may exist between profile and actual conditions.
4. Cross-Sections are based on field interpretations of original logs by various companies.
5. Bulkhead depicted as oblique, appears larger than actual width.

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GENERALIZED SUBSURFACE PROFILE E-E'

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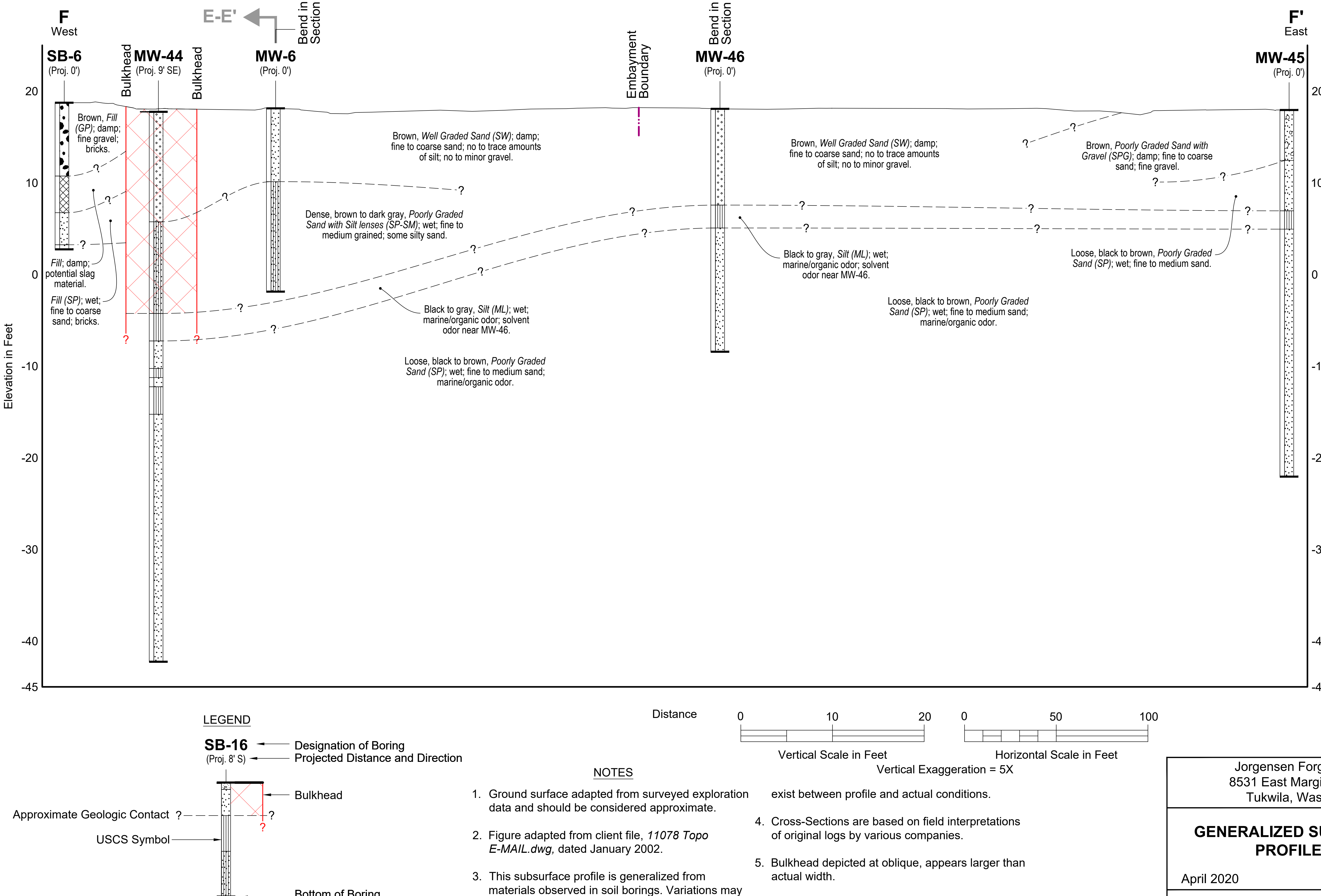
FIG. 9

Filename: E:\211\12596\013\21-1-12596-013 Historical Sampling.dwg Layout: Profile E Date: 03-23-2020 Login: JRS



NOTES

1. Ground surface adapted from surveyed exploration data and should be considered approximate.
2. Figure adapted from client file, *11078 Topo E-MAIL.dwg,* dated January 2002.
3. This subsurface profile is generalized from materials observed in soil borings. Variations may exist between profile and actual conditions.
4. Cross-Sections are based on field interpretations of original logs by various companies.
5. Bulkhead depicted at oblique, appears larger than actual width.

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GENERALIZED SUBSURFACE PROFILE F-F'

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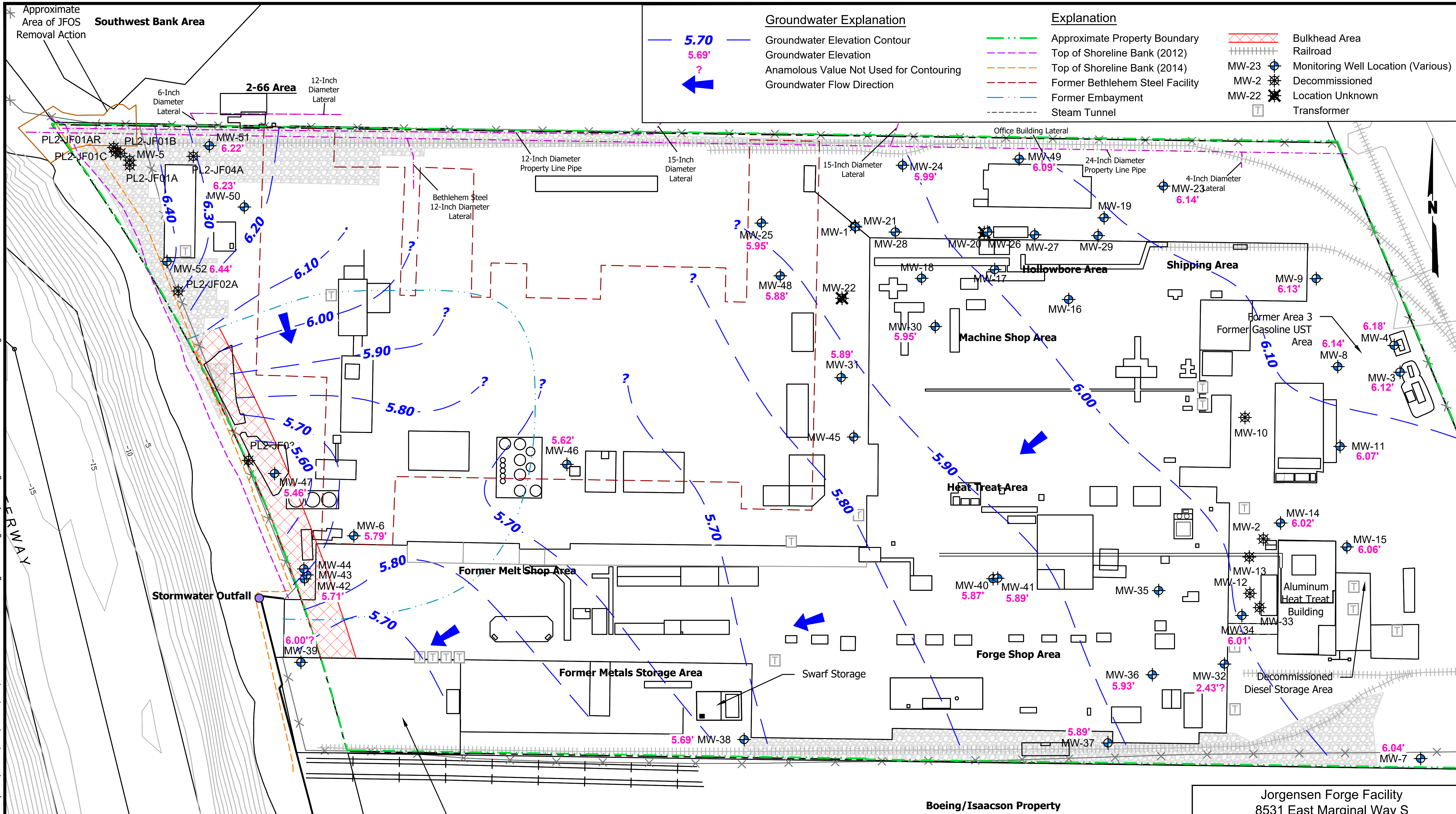
FIG. 10

Filename: E:\211\12596\013\21-1-12596-013 Historical Sampling.dwg Layout: Profile F Date: 03-23-2020 Login: JRS



NOTES

1. Groundwater contours based on manual measurements collected on August 15, 2017 during falling tide conditions.
2. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.

0 100 200

Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

GROUNDWATER CONTOURS AUGUST 2017 GROUNDWATER MONITORING

April 2020 21-1-12596-013

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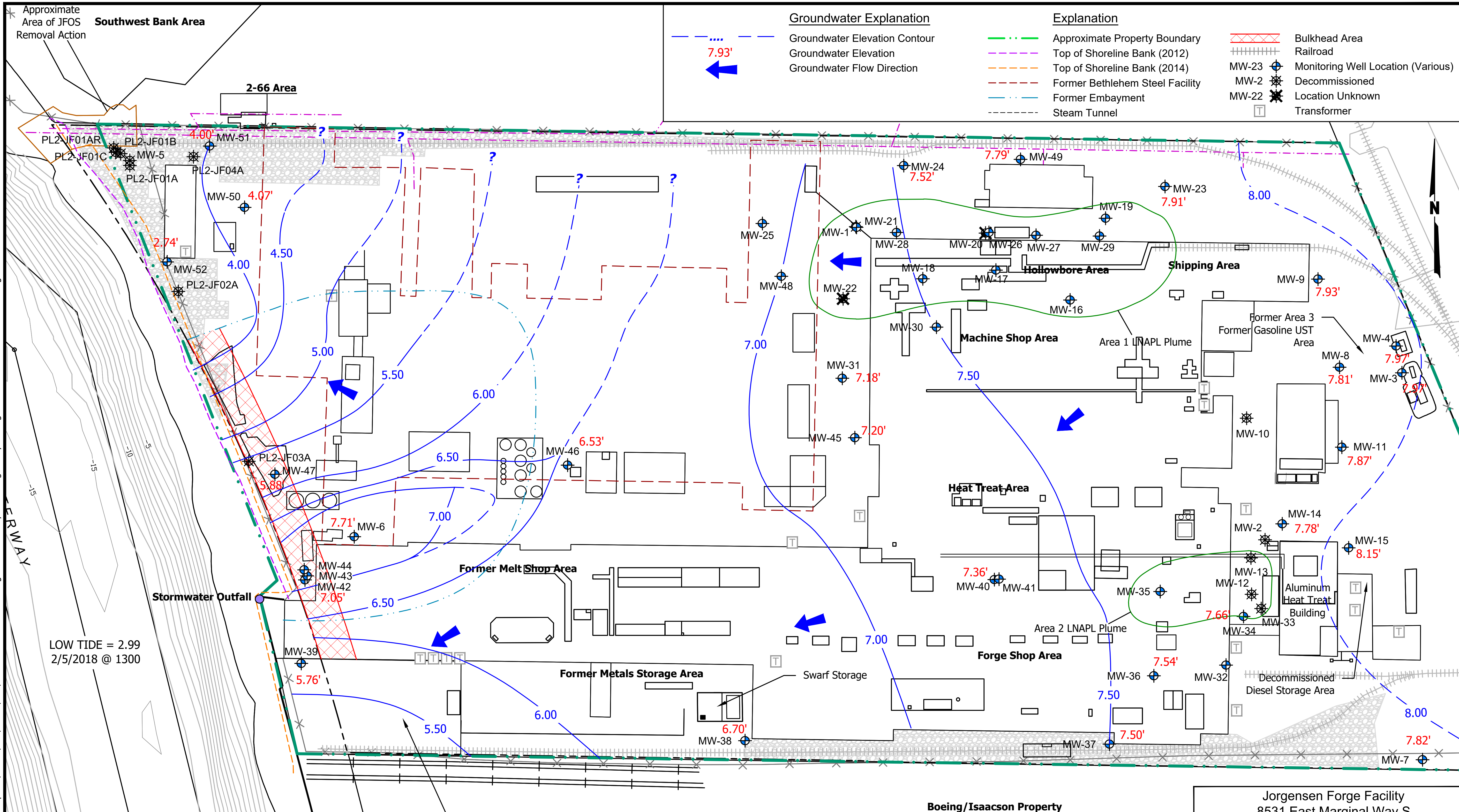
FIG. 11



NOTES

1. Groundwater contours based on manual measurements collected on February 5, 2018 during falling tide conditions.
2. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.

0 100 200
Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

GROUNDWATER CONTOURS FEBRUARY 2018 GROUNDWATER MONITORING

April 2020 | 21-1-12596-013

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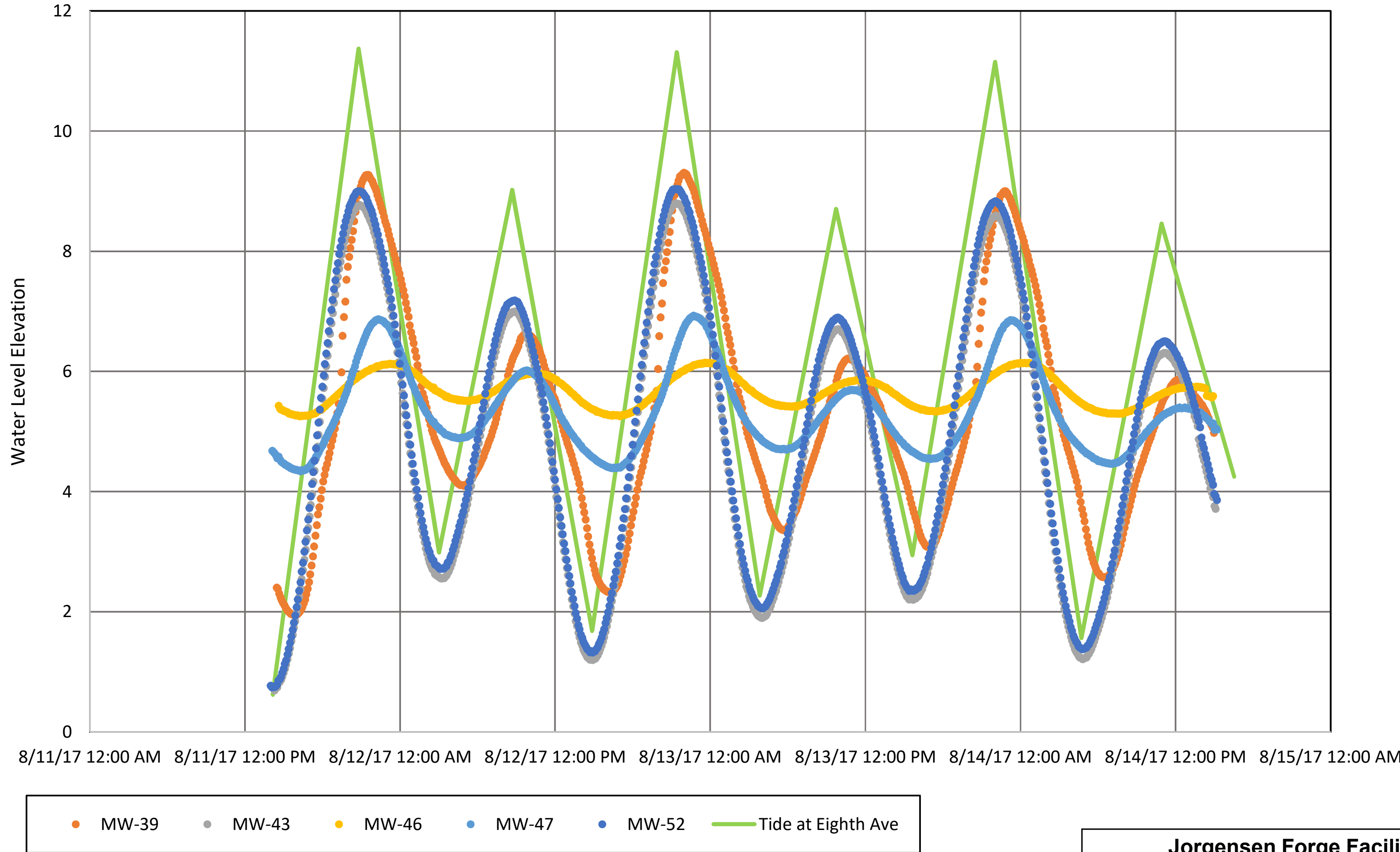
FIG. 12



Notes:

1) Tidal data taken from NOAA/NOS/CO-OPS Duwamish Waterway, Eight Ave. South Seattle, Washington Station 9447029

2) Approximate distance to top of shoreline bank of Lower Duwamish Waterway:

MW-39	*39 Feet*
MW-43	*21 Feet*
MW-46	*330 Feet*
MW-47	*32 Feet*
MW-52	*8 Feet*

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

August 2017 Tidal Study

April 2020 21-1-12596-013

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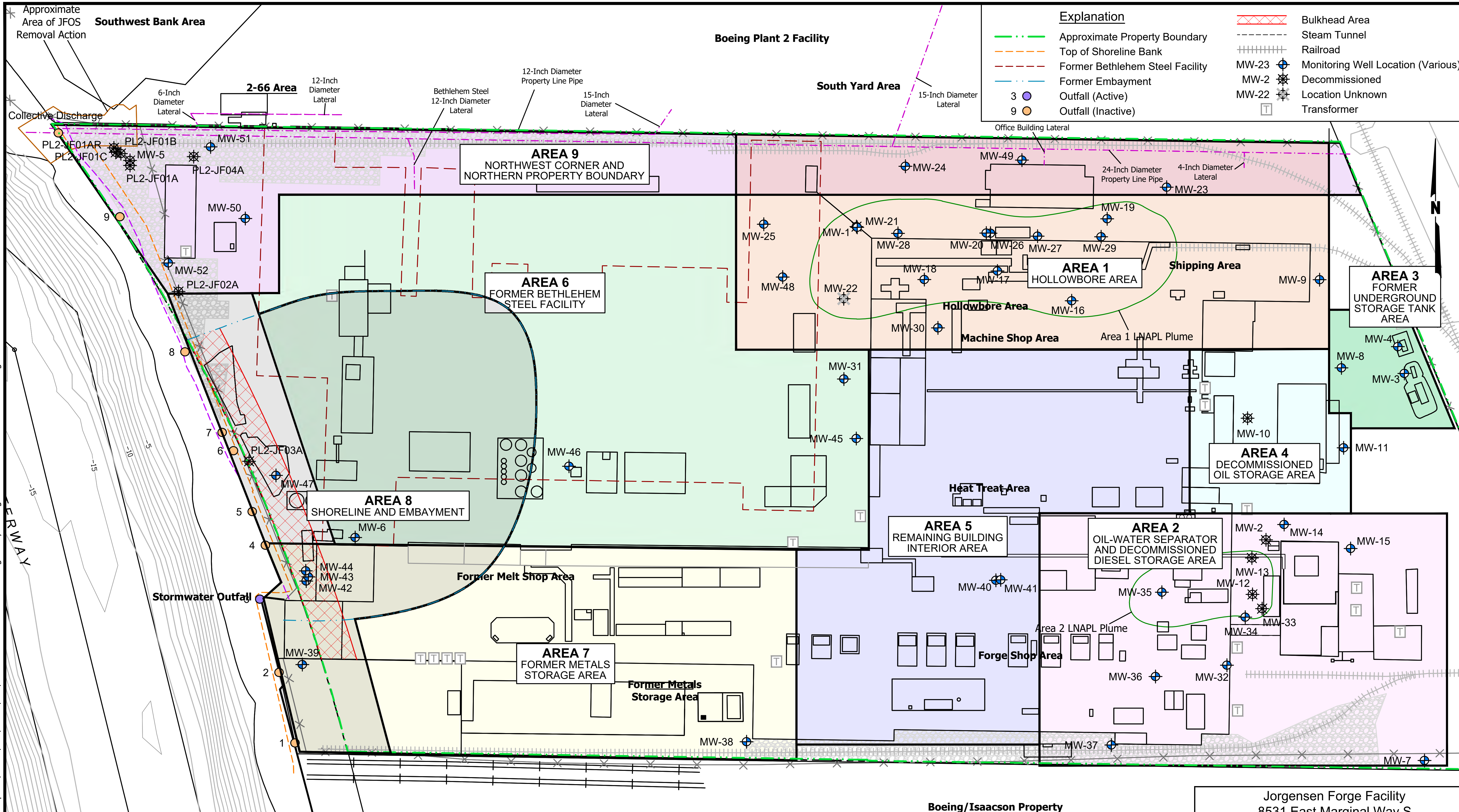
FIG. 13



NOTE

Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017.

0 100 200
Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

SITE AREAS

April 2020 21-1-12596-013

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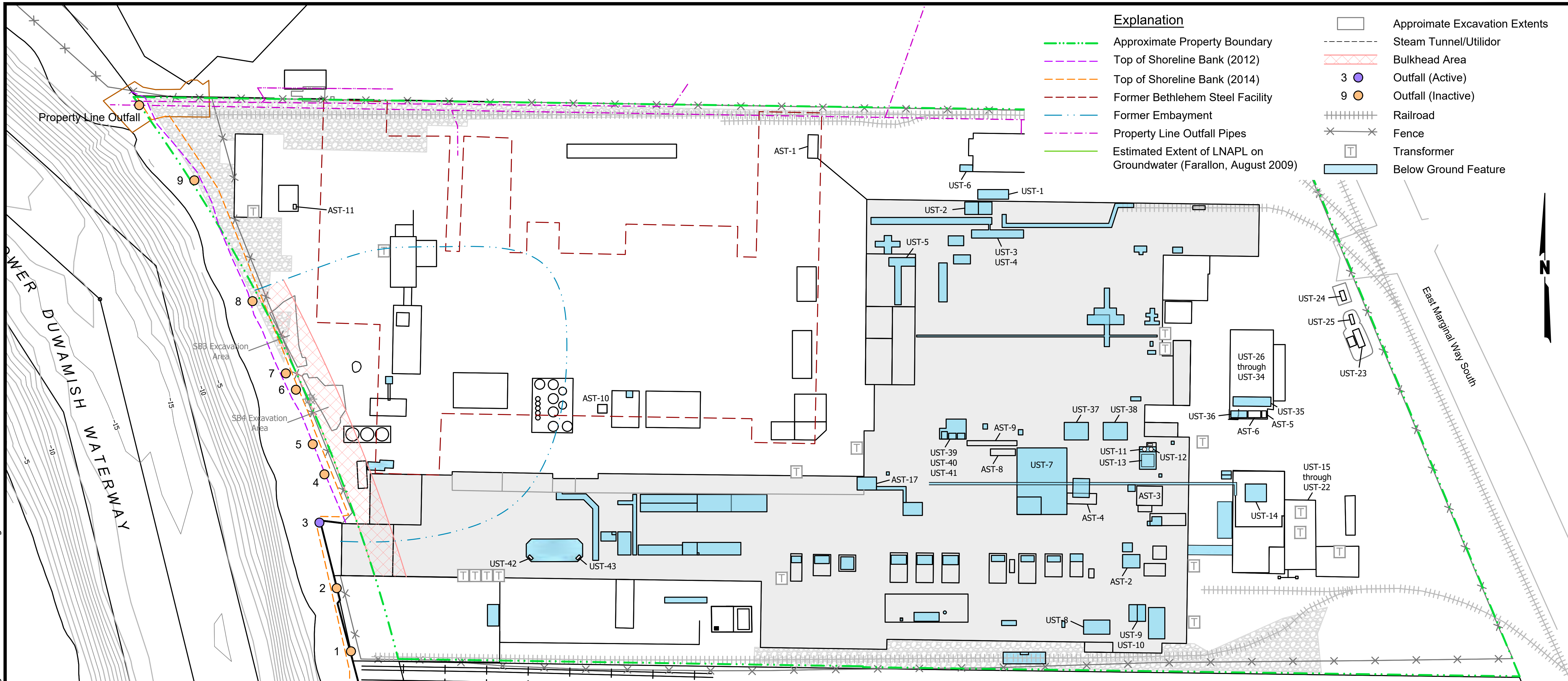
FIG. 14

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\013\21-1-12596-013 Site Areas.dwg Layout: Figure 14 Date: 04-14-2020 Login: JRS



Tank ID	Description	Containment	Capacity (Gallons)	Status
UST-1	Hollowbore 59/60 Lathes Cutting Oil Holding Tank	V	11,000	P
UST-2	Hollowbore 59/60 Horizontal Lathes Intermediate Cutting Oil Tank	V	240	R
UST-3	Hollowbore 58 Horizontal Lathe Clean Cutting Oil Tank	V	5,500	R
UST-4	Hollowbore 58 Horizontal Lathe Dirty Cutting Oil Tank	V	5,000	R
UST-5	Tacchi Cutting Oil Tank	V	2,500	R
UST-6	Office Building Heating Oil UST	G	600	P
UST-7	5,000-Ton Press Hydraulic Oil Tank	V	4,000	R
UST-8	Ring Expander Hydraulic Oil Tank	V	300	R
UST-9	Ring Mill Coolant Tank	V	500	R
UST-10	Ring Mill Coolant Tank	V	500	R
UST-11	Quench Tank 5 (Q5)	V	-	R
UST-12	Quench Tank 6 (Q6)	V	5,000	R
UST-13	Quench Tank 7 (Q7)	V	-	R
UST-14	Quench Tank 8 (Q8)	V	-	R
UST-15 through UST-22	Decommissioned Diesel Storage Area Tanks (8 tanks)	V	96,000	P
UST-23	Former Regulated Gasoline UST	G	8,000	R
UST-24	Former Unregulated UST	G	2,000	R
UST-25	Former Unregulated UST	G	1,000	R
UST-26 through UST-35	Decommissioned Oil Storage Area Tanks (10 tanks)	V	150,000	P

Tank ID	Description	Containment	Capacity (Gallons)	Status
UST-36	Waste Oil Tank	V	2,000	R
UST-37	West Craven Lathe	V	30	R
UST-38	East Craven Lathe	V	100	R
UST-39	Quench Tank 1 (Q1)	V	13,000	R
UST-40	Quench Tank 2 (Q2)	V	13,000	R
UST-41	Quench Tank 3 (Q3)	V	-	R
UST-42	Arc Furnace Hydraulic Oil Tank	V	500	P
UST-43	Arc Furnace Hydraulic Oil Tank	V	500	P
AST-1	Former Cutting Oil Supply Tank	C	4,000	R
AST-2	660-Ton Press Hydraulic Oil Tank	C	700	R
AST-3	1,250-Ton Press Hydraulic Oil Tank	C	1,000	R
AST-4	L and F Press Hydraulic Oil Tank	C	700	R
AST-5	Used Oil Centrifuge	C	1,200	P
AST-6	Clean Hydraulic Oil Tank	C	6,000	P
AST-7	2,500 Ton Press Hydraulic Oil Tank	C	1,500	R
AST-8	Quench Tank 4 (Q4)	C	-	R
AST-9	Quench Tank 9 (Q9)	C	-	R
AST-10	Former Gasoline AST	C	300	R
AST-11	Diesel Fuel Tank	C	300	P

NOTES

1. Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017, and *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.

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
P = Present

Jorgensen Forge Facility
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ASTs AND USTs

April 2020 21-1-12596-013

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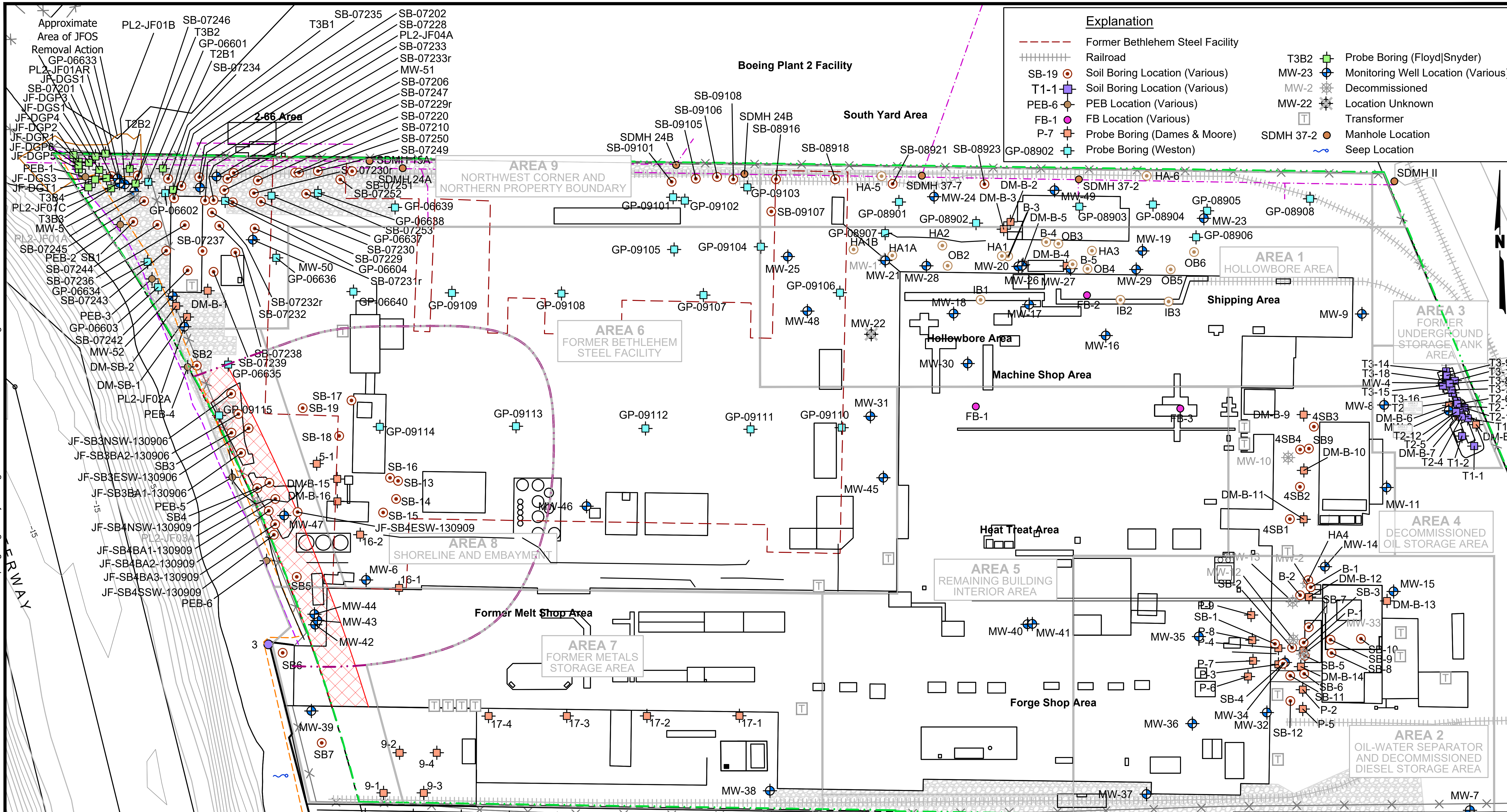
FIG. 15

Filename: E:\211\12596\013\21-1-12596-013 ASTs and USTs.dwg Layout: Figure 15 Date: 03-23-2020 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.
3. Due to sampling density in the northwest corner, not all sampling locations can be displayed All sampling locations are displayed on Figure 16H.

EXPLANATION

- Top of Shoreline Bank (2012)
- Top of Shoreline Bank (2014)
- Former Embayment
- Approximate Property Boundary
- Approximate Bulkhead Location

0 100 200

Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

HISTORICAL SAMPLING LOCATIONS

April 2020 21-1-12596-013

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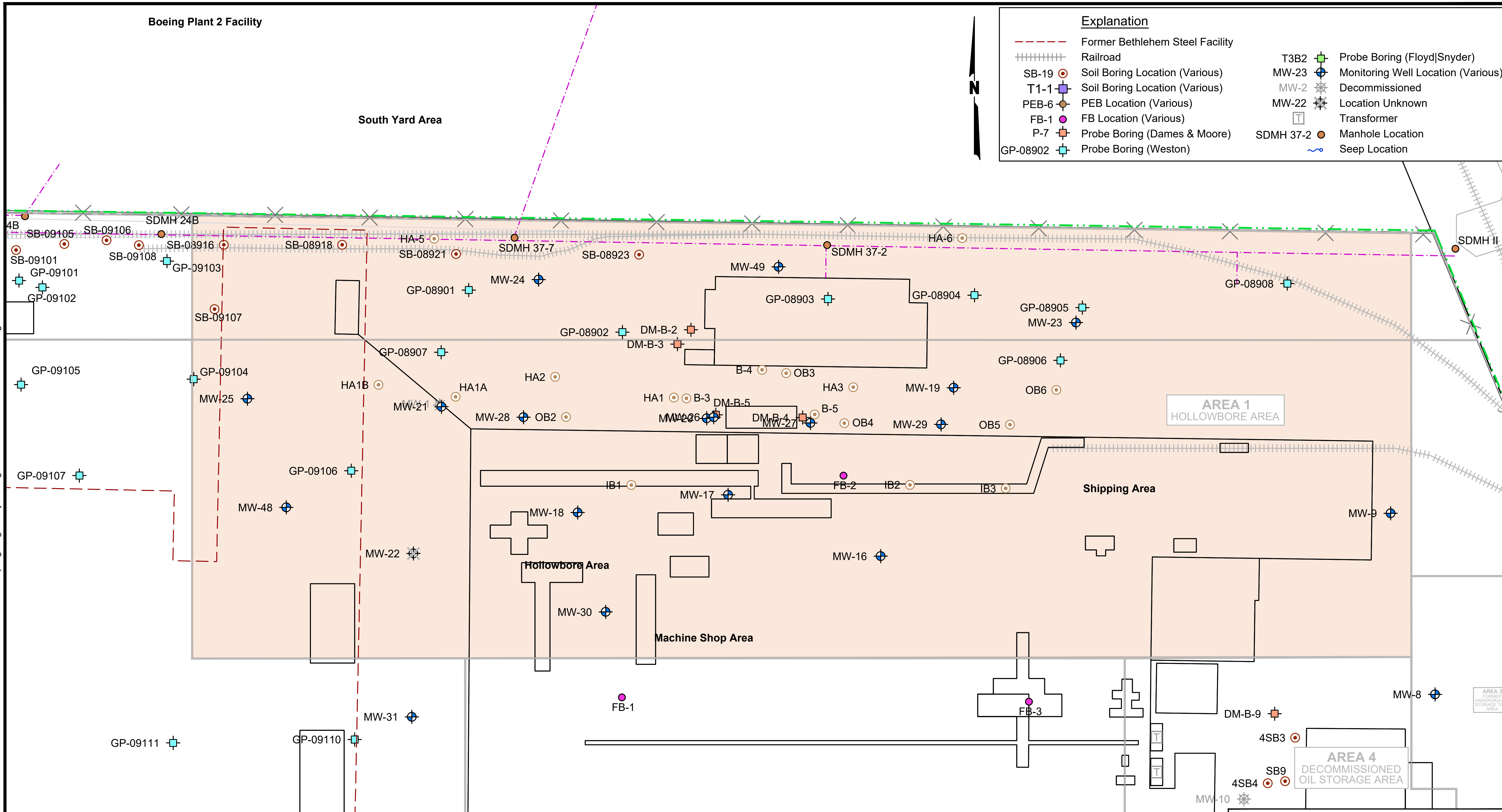
FIG. 16A

Filename: C:\Users\jrs\CAD Group Dropbox\J Drive\21\1\12596\013\21-1-12596-013 Historical Sampling.dwg Layout: Figure 16A Date: 04-14-2020 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

0 50 100

Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
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HISTORICAL SAMPLING LOCATIONS - AREA 1

April 2020 21-1-12596-013

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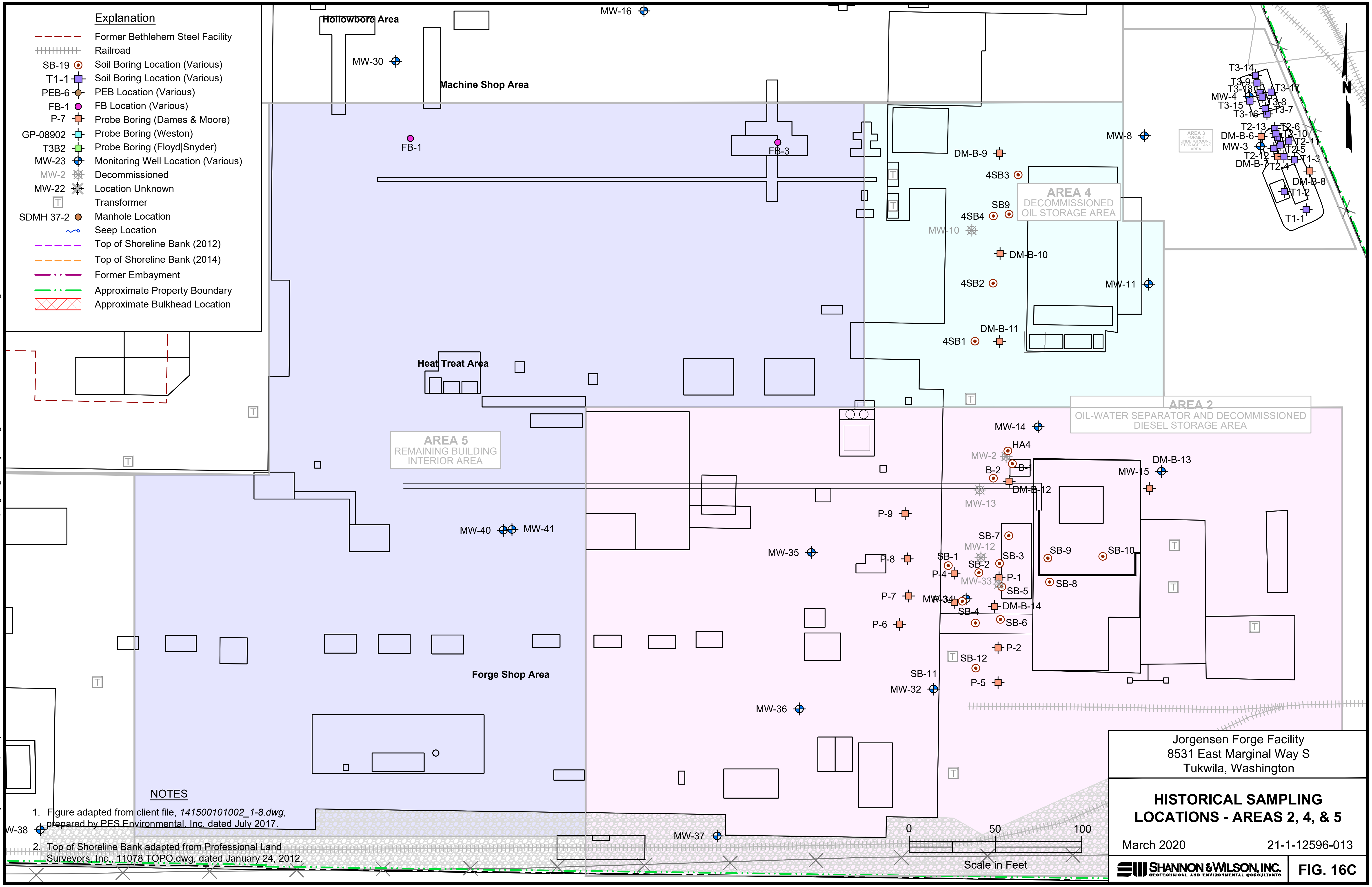
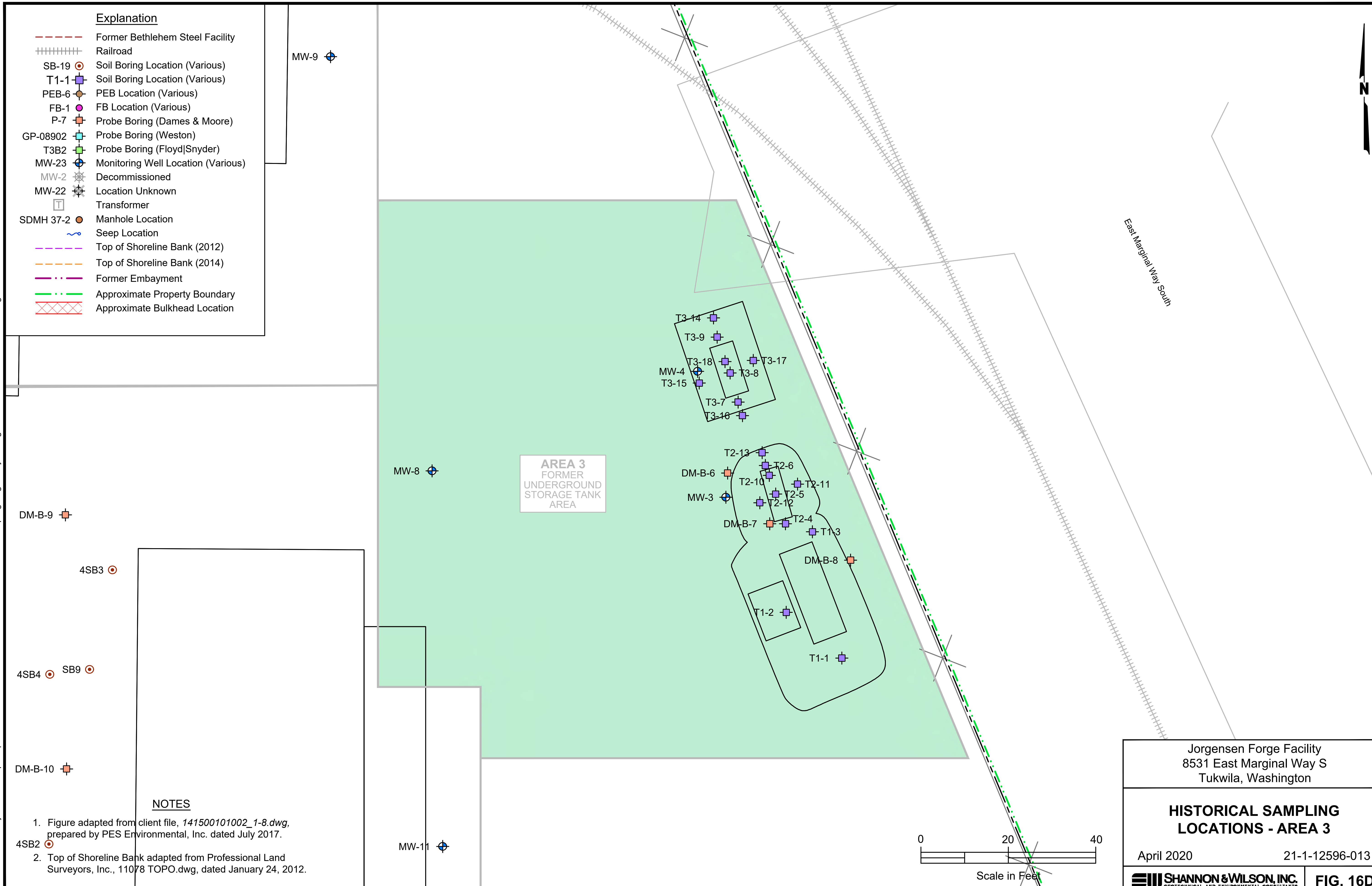
FIG. 16B

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\1\12596\013\21-1-12596-013 Historical Sampling.dwg Layout: Figure 16B Date: 04-14-2020 Login: JRS


Explanation
Former Bethlehem Steel Facility
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
Seep Location
Top of Shoreline Bank (2012)
Top of Shoreline Bank (2014)
Former Embayment
Approximate Property Boundary
Approximate Bulkhead Location
Hollowbore Area
Machine Shop Area
Heat Treat Area
Forge Shop Area
AREA 5
REMAINING BUILDING
INTERIOR AREA
AREA 4
DECOMMISSIONED
OIL STORAGE AREA
AREA 2
OIL-WATER SEPARATOR AND DECOMMISSIONED
DIESEL STORAGE AREA
MW-16
MW-30
FB-1
FB-3
DM-B-9
4SB3
SB9
4SB4
MW-10
DM-B-10
4SB2
MW-11
MW-8
DM-B-11
4SB1
T3-14
T3-9
T3-18
T3-17
MW-4
T3-15
T3-8
T3-7
T3-16
T2-13
T2-6
DM-B-6
T2-10
MW-3
T2-11
T2-5
T2-12
T1-3
DM-B-7
T2-4
DM-B-8
T1-2
T1-1
MW-14
HA4
MW-2
B-1
B-2
DM-B-12
MW-13
DM-B-13
MW-15
P-9
SB-7
MW-12
SB-9
SB-10
MW-40
MW-41
MW-35
P-8
SB-1
SB-3
SB-2
P-4
P-1
MW-33
SB-5
SB-8
P-7
MW-34
DM-B-14
SB-4
SB-6
P-6
P-2
SB-12
SB-11
P-5
MW-32
MW-36
MW-37
MW-38
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.
Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington
HISTORICAL SAMPLING
LOCATIONS - AREAS 2, 4, & 5
March 2020
21-1-12596-013
SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
FIG. 16C
Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\1\12596\013\21-1-12596-013 Historical Sampling.dwg
Layout: Figure 16C
Date: 04-14-2020
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.

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

HISTORICAL SAMPLING LOCATIONS - AREA 3

April 2020 | 21-1-12596-013

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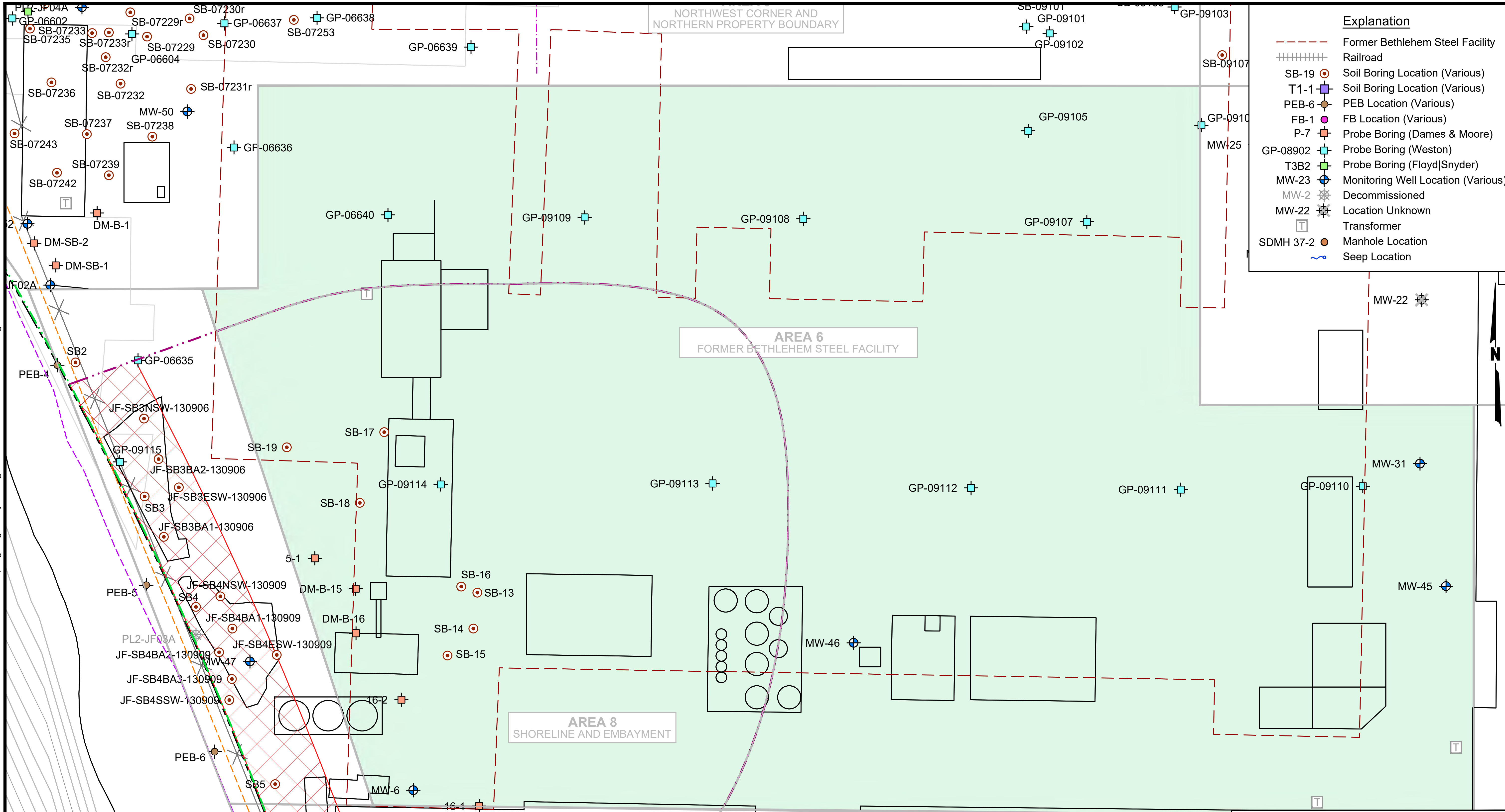
FIG. 16D

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\013\21-1-12596-013 Historical Sampling.dwg Layout: Figure 16D Date: 04-14-2020 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

0 50 100
Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

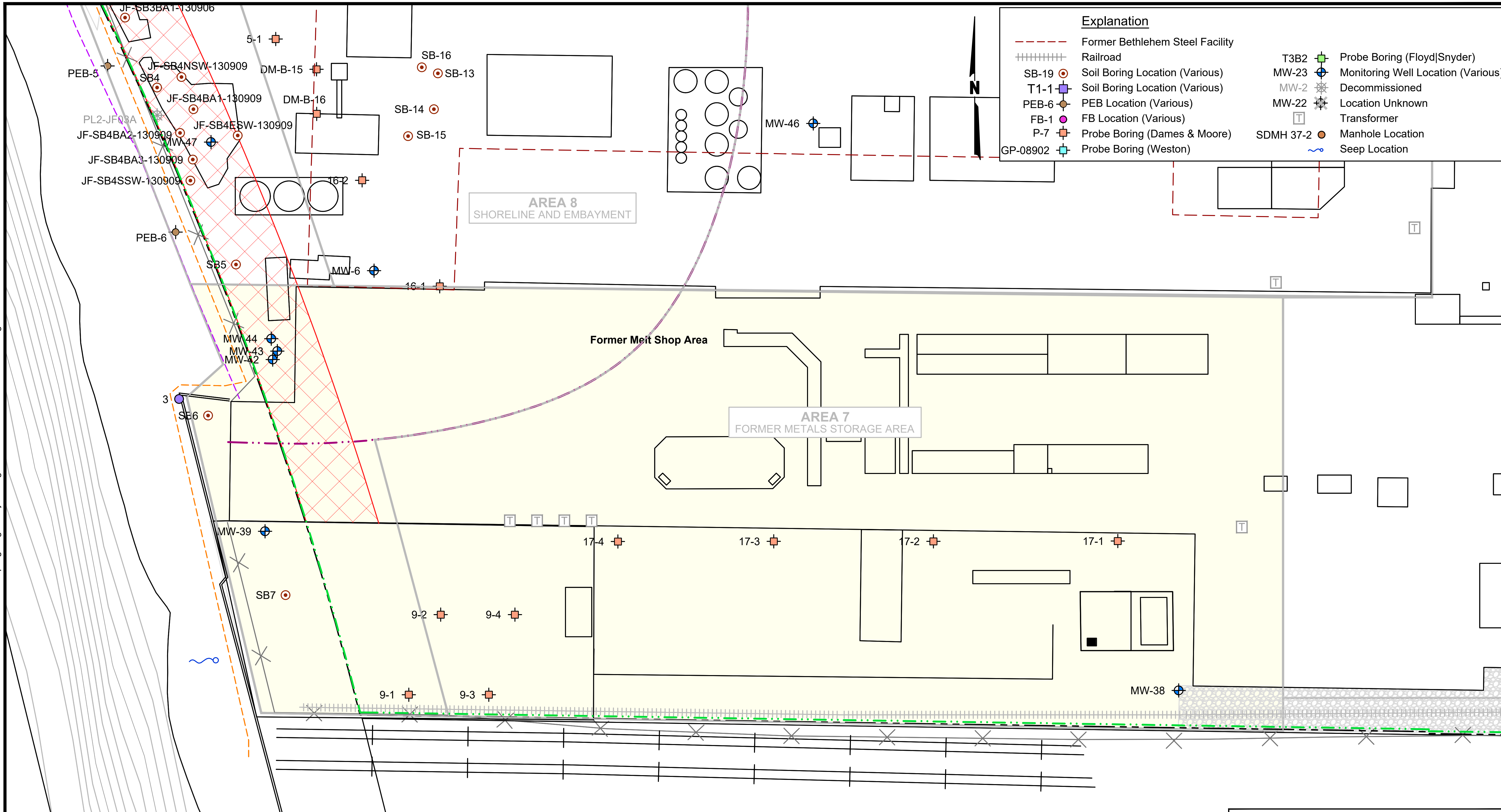
HISTORICAL SAMPLING LOCATIONS - AREA 6

April 2020 21-1-12596-013

SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 16E

Filename: C:\Users\jrs\CAD Group Dropbox\J\Drive\21\1\12596\013\21-1-12596-013 Historical Sampling.dwg Layout: Figure 16E Date: 04-14-2020 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

0 50 100

Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

HISTORICAL SAMPLING LOCATIONS - AREA 7

April 2020 21-1-12596-013

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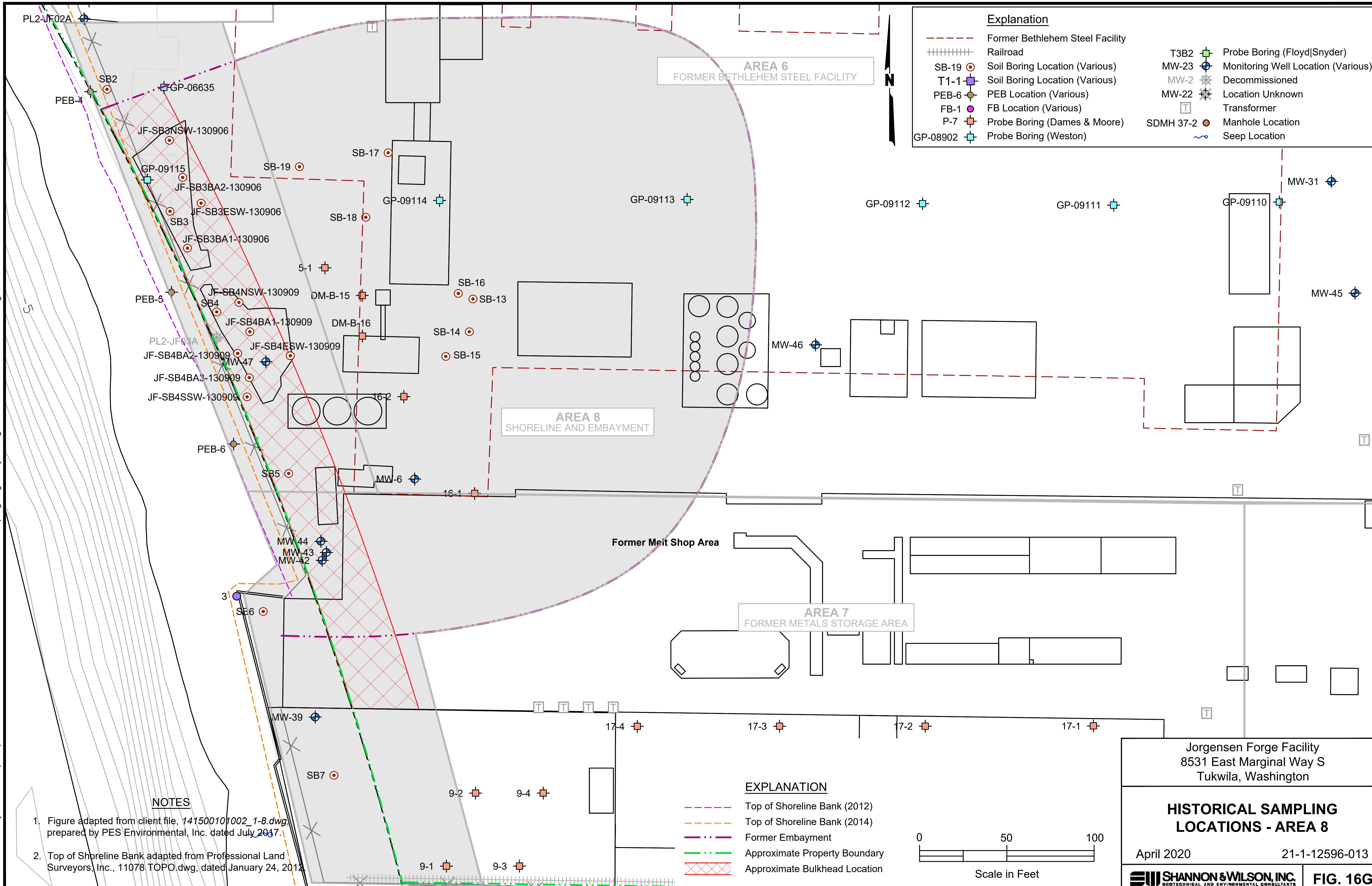
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 16F

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\1\12596\013\21-1-12596-013 Historical Sampling.dwg Layout: Figure 16F Date: 04-14-2020 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.

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

HISTORICAL SAMPLING LOCATIONS - AREA 8

April 2020 | 21-1-12596-013

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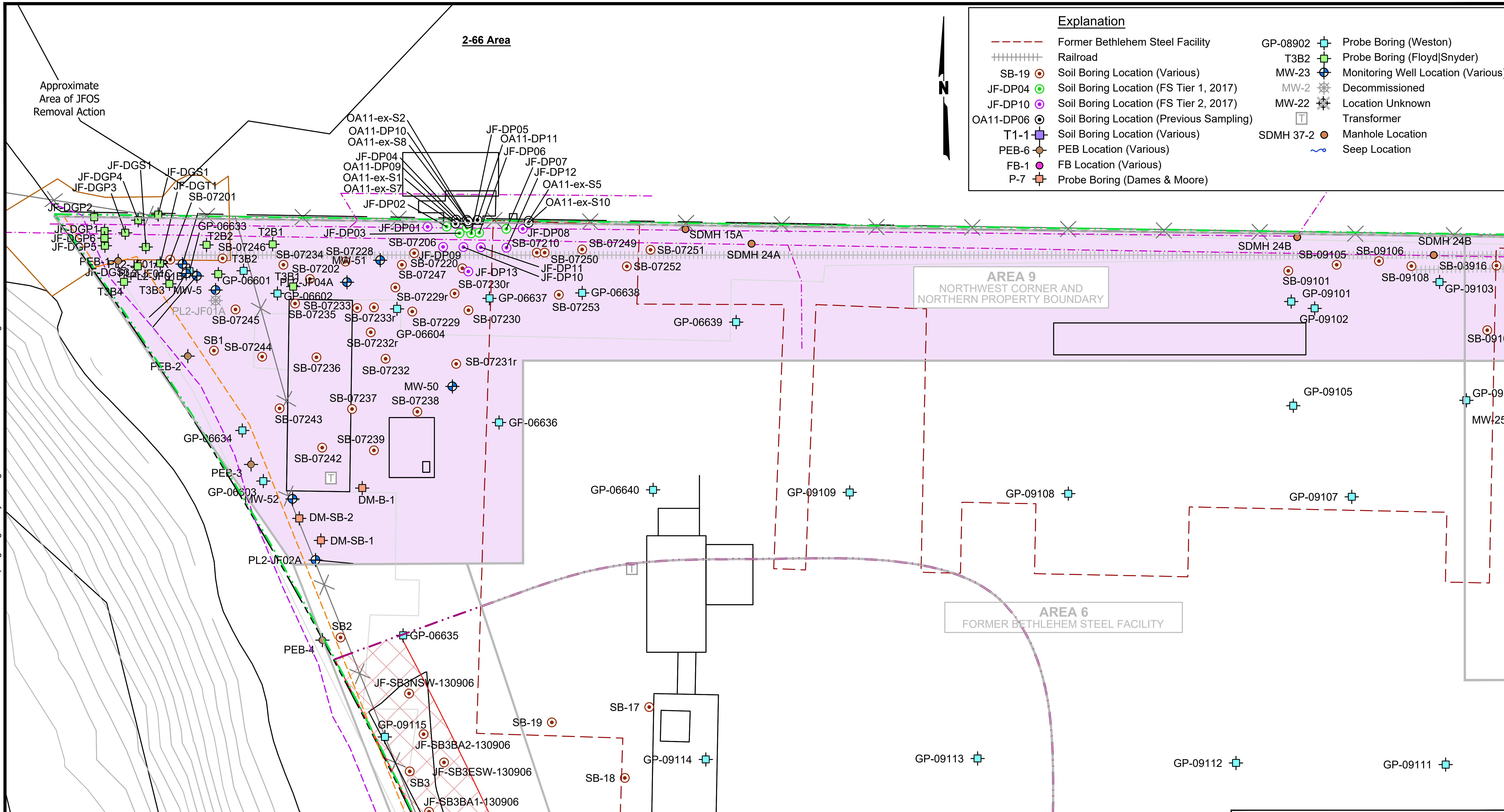
FIG. 16G

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\013\21-1-12596-013 Historical Sampling.dwg Layout: Figure 16G Date: 04-14-2020 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

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

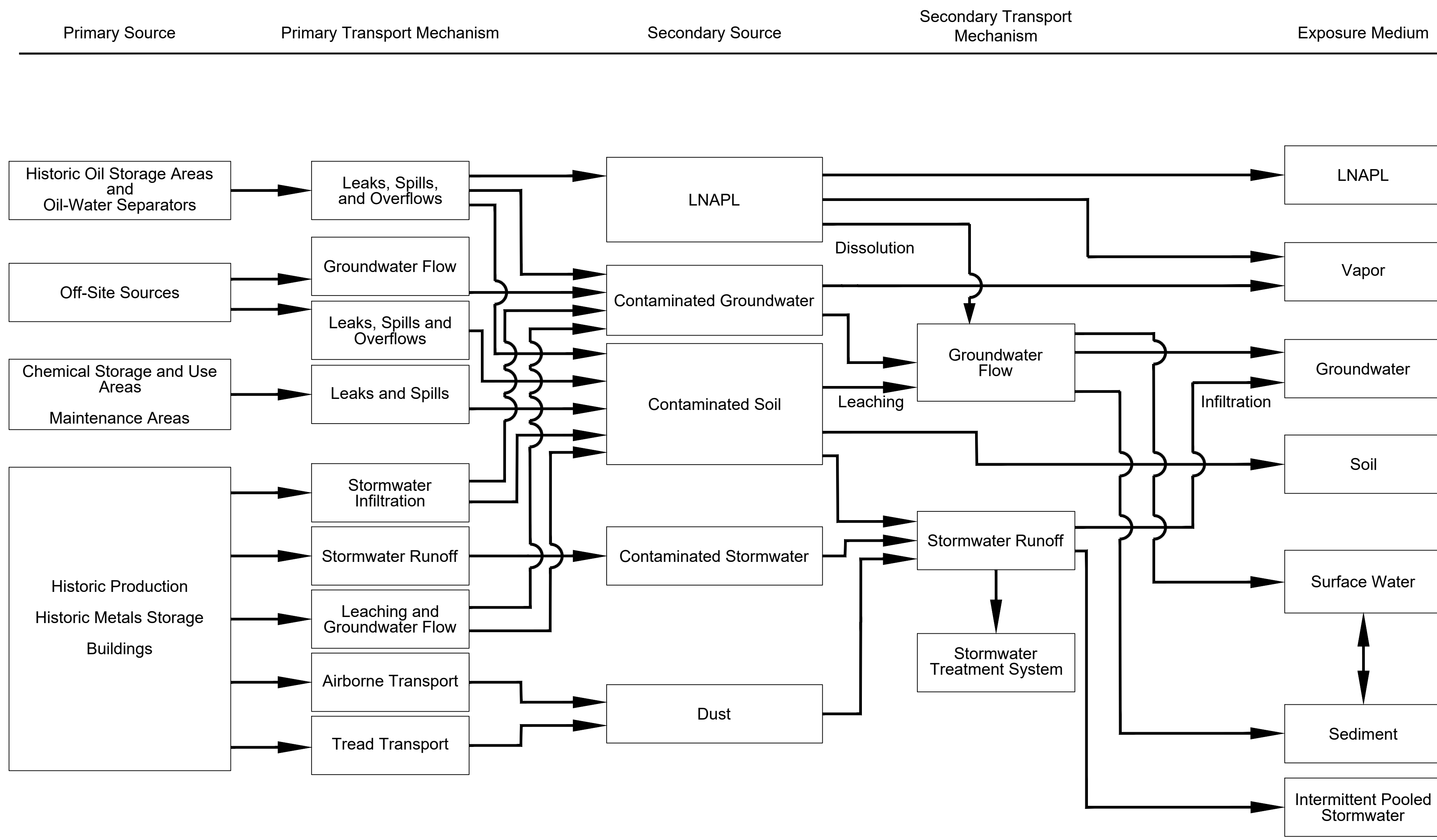
HISTORICAL SAMPLING LOCATIONS - AREA 9

April 2020 21-1-12596-013

SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

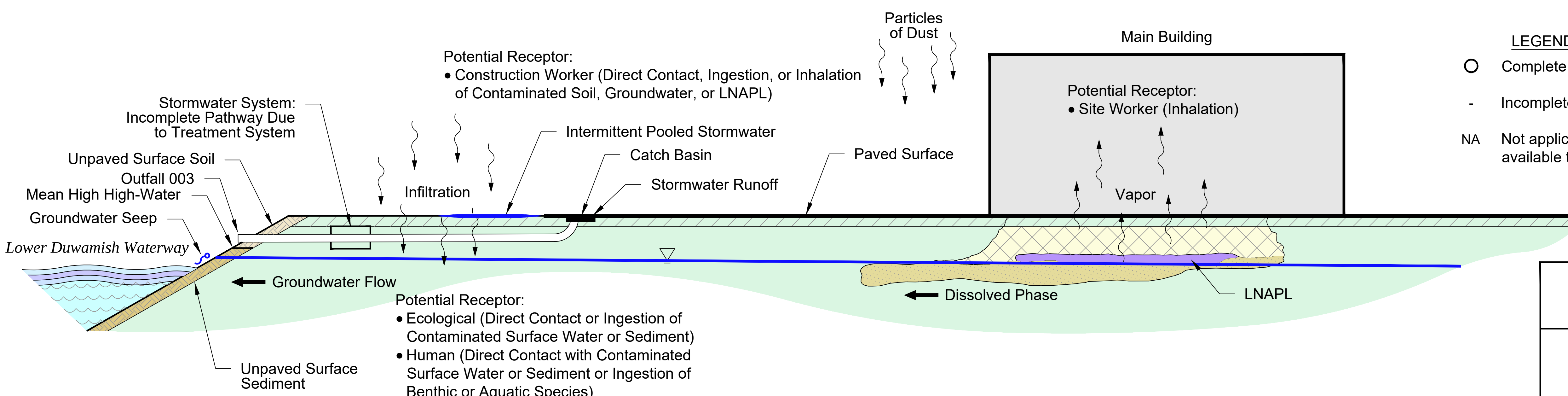
FIG. 16H

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\1\12596\013\21-1-12596-013 Historical Sampling.dwg Layout: Figure 16H Date: 04-14-2020 Login: JRS



Receptors

Exposure Medium	Exposure Pathway	Human: On Property	Human: Off Property	Ecological: Benthic	Ecological: Aquatic
LNAPL	Direct Contact	○	NA	NA	NA
	Ingestion	○	NA	NA	NA
Vapor	Inhalation	○	NA	NA	NA
Groundwater	Direct Contact	○	○	○	○
	Ingestion	○	○	○	○
Soil	Direct Contact	○	NA	NA	NA
	Ingestion	○	NA	NA	NA
	Inhalation	○	NA	NA	NA
Surface Water	Direct Contact	○	○	○	○
	Ingestion	○	○	○	○
	Ingestion of Benthic/Aquatic Species	NA	○	○	○
Sediment	Direct Contact	NA	○	○	○
	Ingestion	NA	○	○	○
Intermittent Pooled Stormwater	Direct Contact	○	NA	NA	NA
	Ingestion	○	NA	NA	NA



LEGEND

○ Complete exposure pathway

\- Incomplete exposure pathway

NA Not applicable, exposure pathway is not available to receptor

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

PRELIMINARY CONCEPTUAL SITE MODEL

April 2020 21-1-12596-013

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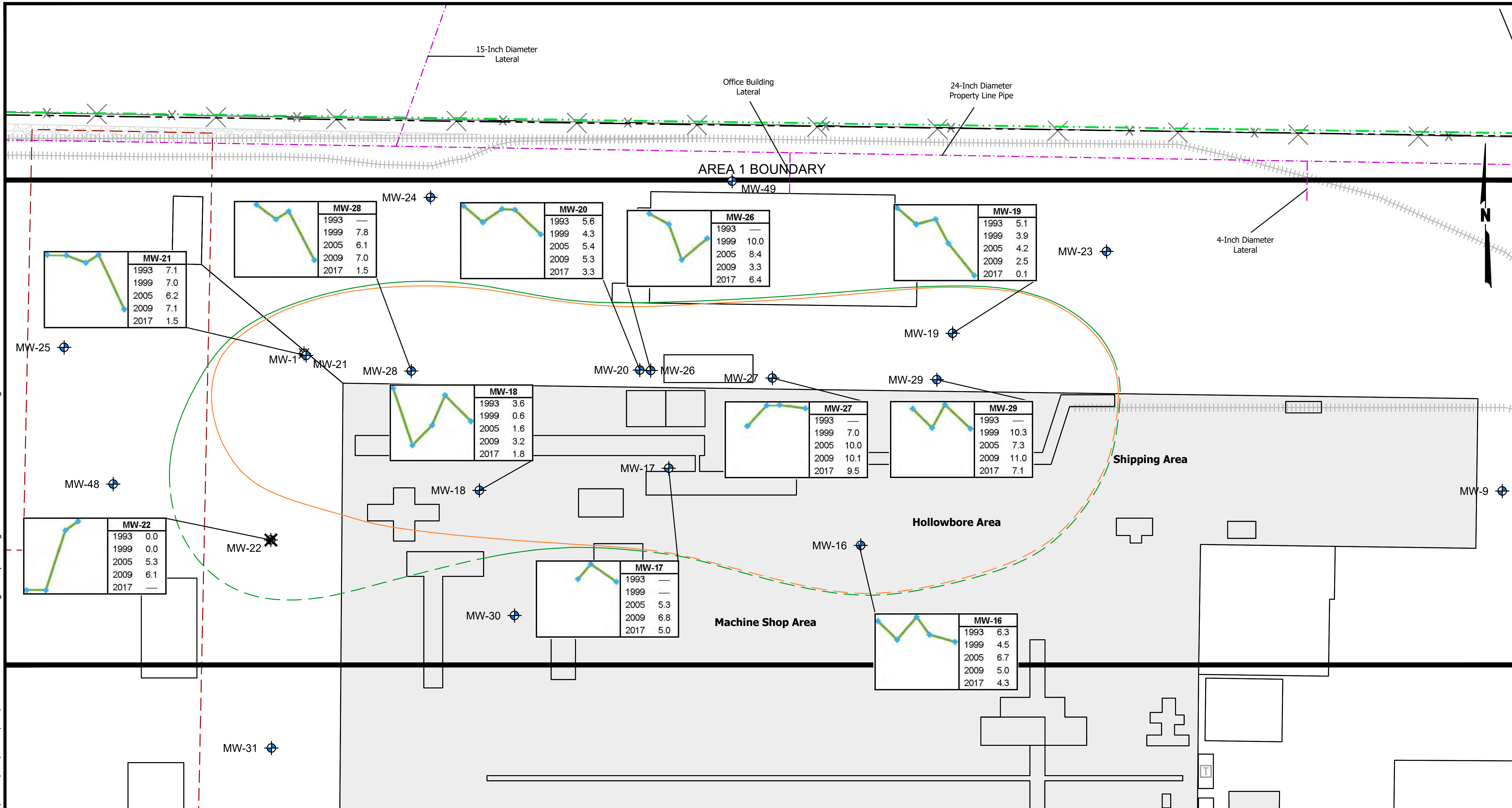
FIG. 17



Explanation

- Approximate Plume Extents - 1993, 1999 (Dashed Where Inferred)
- Approximate Plume Extents - 2005, 2009, 2017 (Dashed Where Inferred)
- Approximate Property Boundary
- Railroad
- Steam Tunnel
- 3 Outfall (Active)
- 9 Outfall (Inactive)
- MW-23 Monitoring Well Location (Various)
- MW-2 Decommissioned
- MW-22 Location Unknown
- Transformer

Maximum LNAPL thickness (in feet) recorded during the indicated year.

0 40 80
Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

AREA 1
LNAPL PLUME EXTENTS

April 2020 21-1-12596-013

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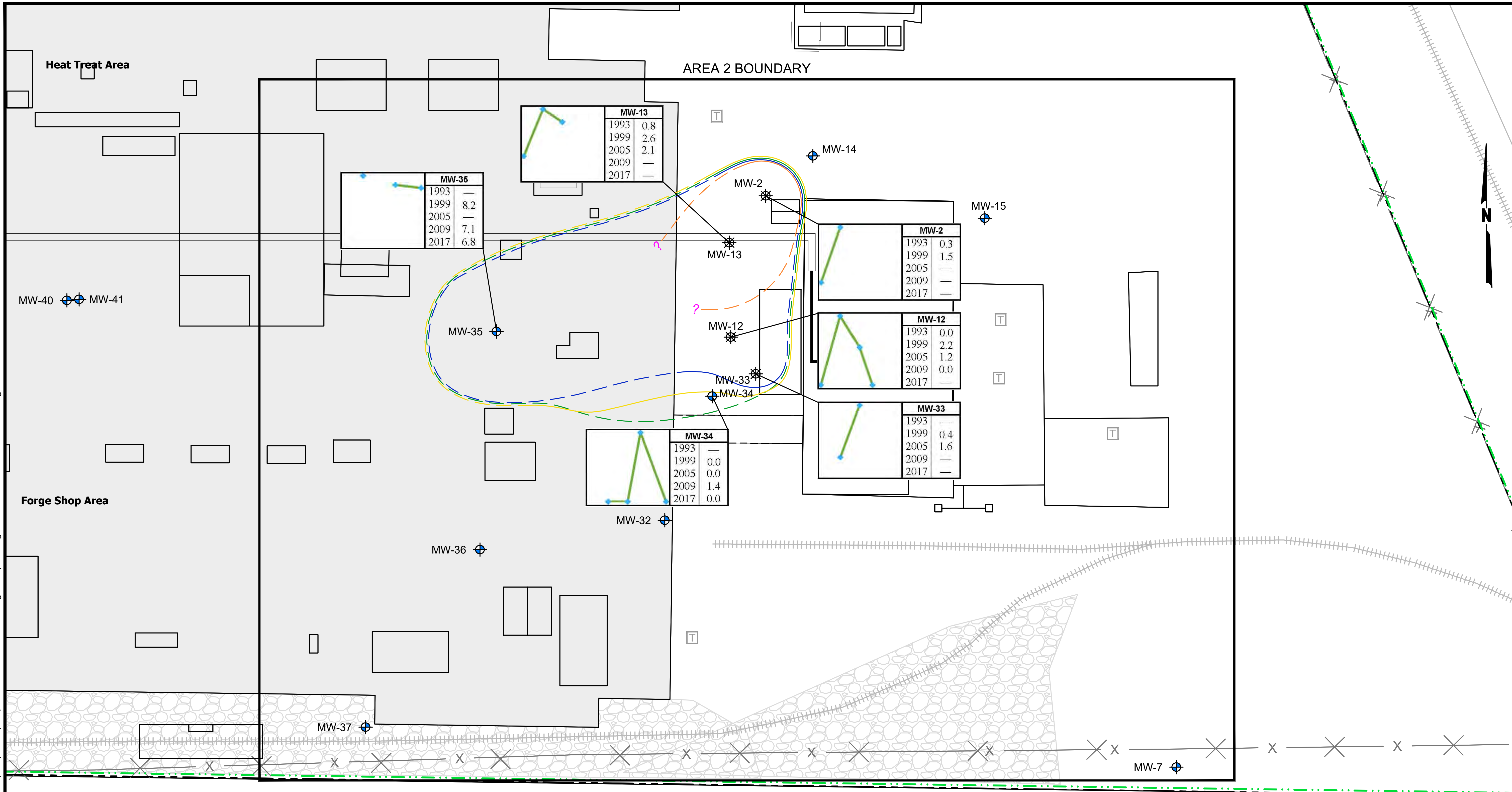
FIG. 18



Explanation

	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 Property Boundary
	Steam Tunnel
	Railroad
MW-23	Monitoring Well Location (Various)
MW-2	Decommissioned
	Transformer
	Steam Tunnel/Utilidor

Maximum LNAPL thickness (in feet) recorded during the indicated year.

0 40 80

Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

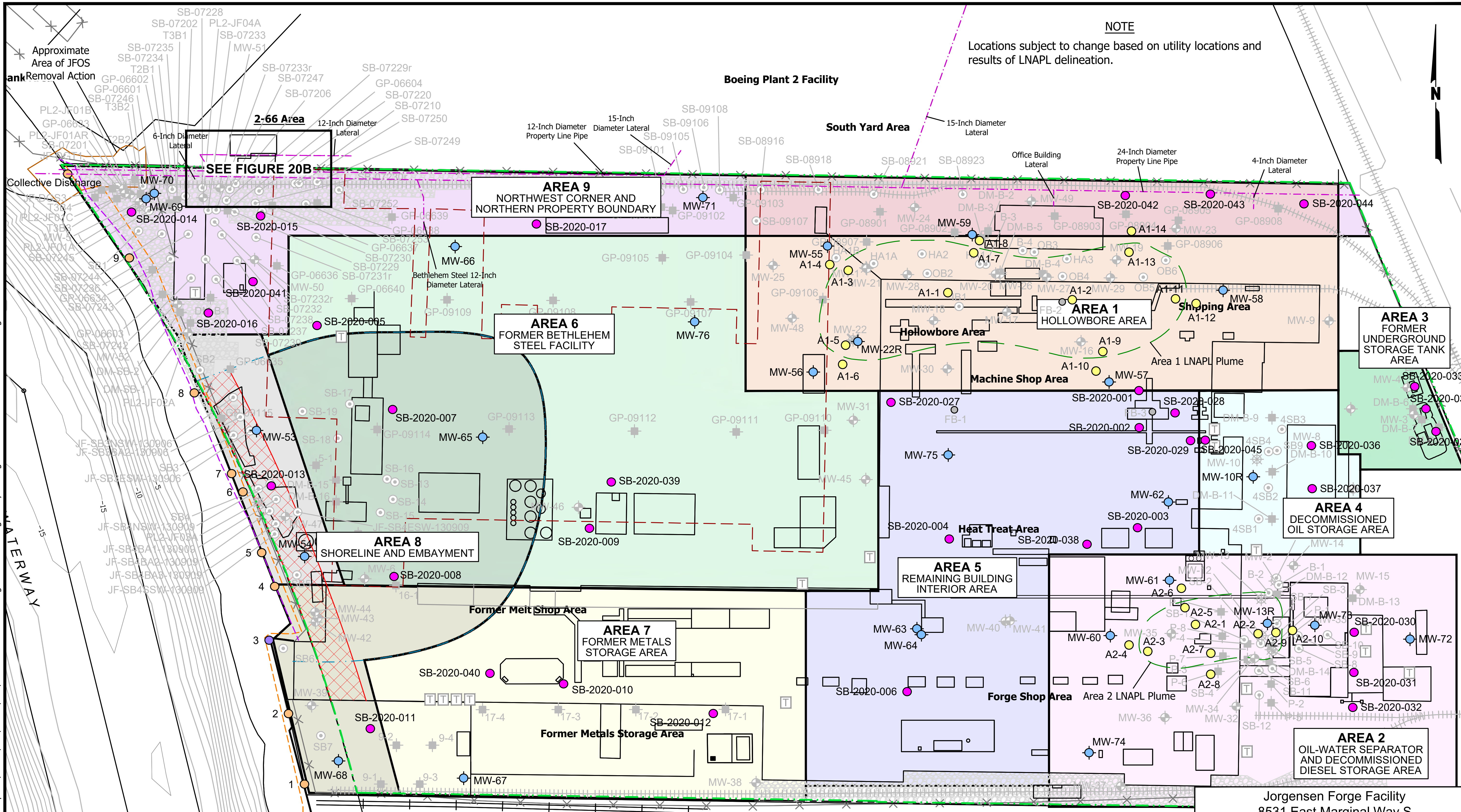
AREA 2
LNAPL PLUME EXTENTS

April 2020 21-1-12596-013

SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 19

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\211\12596\013\21-1-12596-013 Area 2.dwg Layout: Figure 19 Date: 04-14-2020 Login: JRS



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
- Transformer
- MW-22 Location Unknown
- FB-1 FB Location (Various)
- SB-2020-001 Proposed Soil Boring
- MW-69 Proposed Monitoring Well
- A2-1 Proposed LNAPL Delineation Probe Boring

0 100 200

Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

PROPOSED INVESTIGATION LOCATIONS

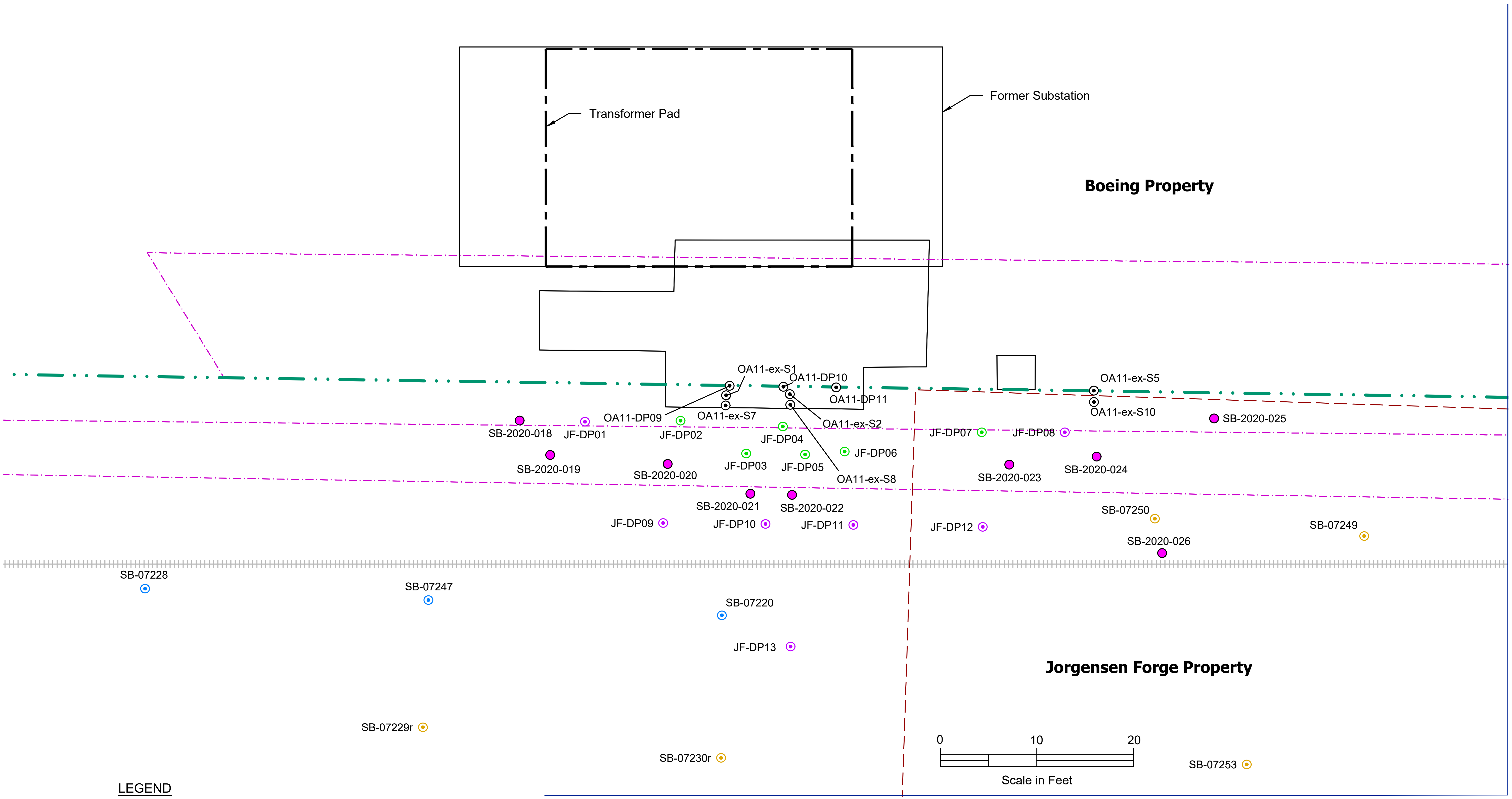
April 2020 21-1-12596-013

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 20A

Filename: C:\Users\jrs\CAD Group Dropbox\J\Drive\211\12596\013\21-1-12596-013 Investigation Points.dwg Layout: Figure 20A Date: 04-09-2020 Login: JRS

Filename: C:\Users\jrs\CAD Group Dropbox\JDrive\21\12596\013\21-1-12596-013 TP Investigation Points.dwg Layout: Figure 20B Date: 04-14-2020 Login: JRS



LEGEND

- Approximate Property Boundary
- Outfall Pipelines
- Former Bethlehem Steel Facility
- Railroad
- JF-DP02 Soil Boring Location (FS Tier 1, 2017)
- JF-DP01 Soil Boring Location (FS Tier 2, 2017)
- SB-07227 Soil Boring Location (Phase I Investigation, 2003)
- SB-07562 Soil Boring Location (Phase II Investigation, 2005)
- OA11-DP10 Soil Boring Location (Previous Sampling)
- SB-2020-018 Proposed Soil Boring

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

8531 East Marginal Way
Tukwila, Washington

PROPOSED INVESTIGATION LOCATIONS SOUTH OF OA-11

April 2020 21-1-12596-013

SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

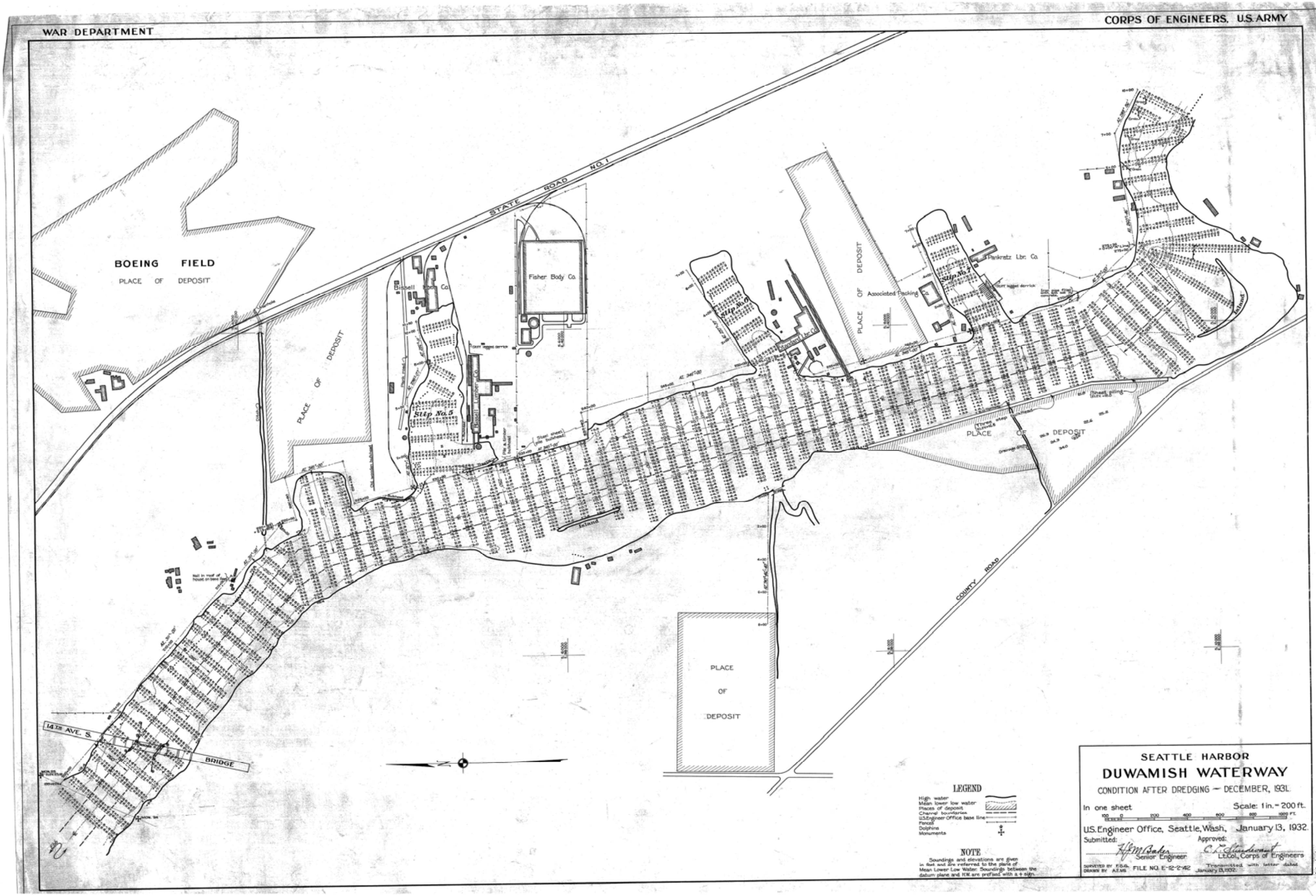
FIG. 20B

APPENDIX A: HISTORICAL AERIAL PHOTOGRAPHS AND MAP

Appendix A

Historical Aerial Photographs and Map

1931 - 2006



WAR DEPARTMENT
CORPS OF ENGINEERS, U.S. ARMY
BOEING FIELD
PLACE OF DEPOSIT
STATE ROAD NO. 1
PLACE OF DEPOSIT
Bissell
Fisher Body Co.
Slip No. 5
Slip No. 6
PLACE OF DEPOSIT
Associated Packing Co.
Pankratz Lbr. Co.
Slip No. 7
Island
PLACE OF DEPOSIT
Island
COUNTY ROAD
PLACE OF DEPOSIT
14th AVE. S.
BRIDGE
LEGEND
High water
Mean lower low water
Places of deposit
Channel boundaries
U.S. Engineer Office base line
Fences
Dolphins
Monuments
NOTE
Soundings and elevations are given in feet and are referred to the plane of Mean Lower Low Water. Soundings between the datum plane and H.W. are prefixed with a + sign.
SEATTLE HARBOR
DUWAMISH WATERWAY
CONDITION AFTER DREDGING — DECEMBER, 1931.
In one sheet
Scale: 1 in. = 200 ft.
U.S. Engineer Office, Seattle, Wash., January 13, 1932.
Submitted:
Approved:
H.J.M. Baker
Senior Engineer
C. L. Sturdevant
Lt. Col., Corps of Engineers
SURVEYED BY F.S.G.
DRAWN BY A.T.M.S.
FILE NO. E-12-2-42
Transmitted with letter dated January 13, 1932.
E 12 2 42

Not to Scale

Source: 1936 Aerial Photograph

Figure A-1
1936 Aerial Photograph of Sediment Investigation Area
Jorgensen Forge Facility

ANCHOR ENVIRONMENTAL, L.L.C.

FARALLON CONSULTING

Jan 10, 2008 5:14pm cdavidson K:\Jobs\010128-JORGENSEN_FORGE\01012802\01012802-005.dwg A-1

Not to Scale

Source: Aerial Photograph Analysis of Jorgensen Forge Corporation/Duwamish River - Seattle, Washington (EPA 2003).

Jan 10, 2008 5:15pm cdavidson K:\Jobs\010128-JORGENSEN_FORGE\01012802\01012802-005.dwg A-2

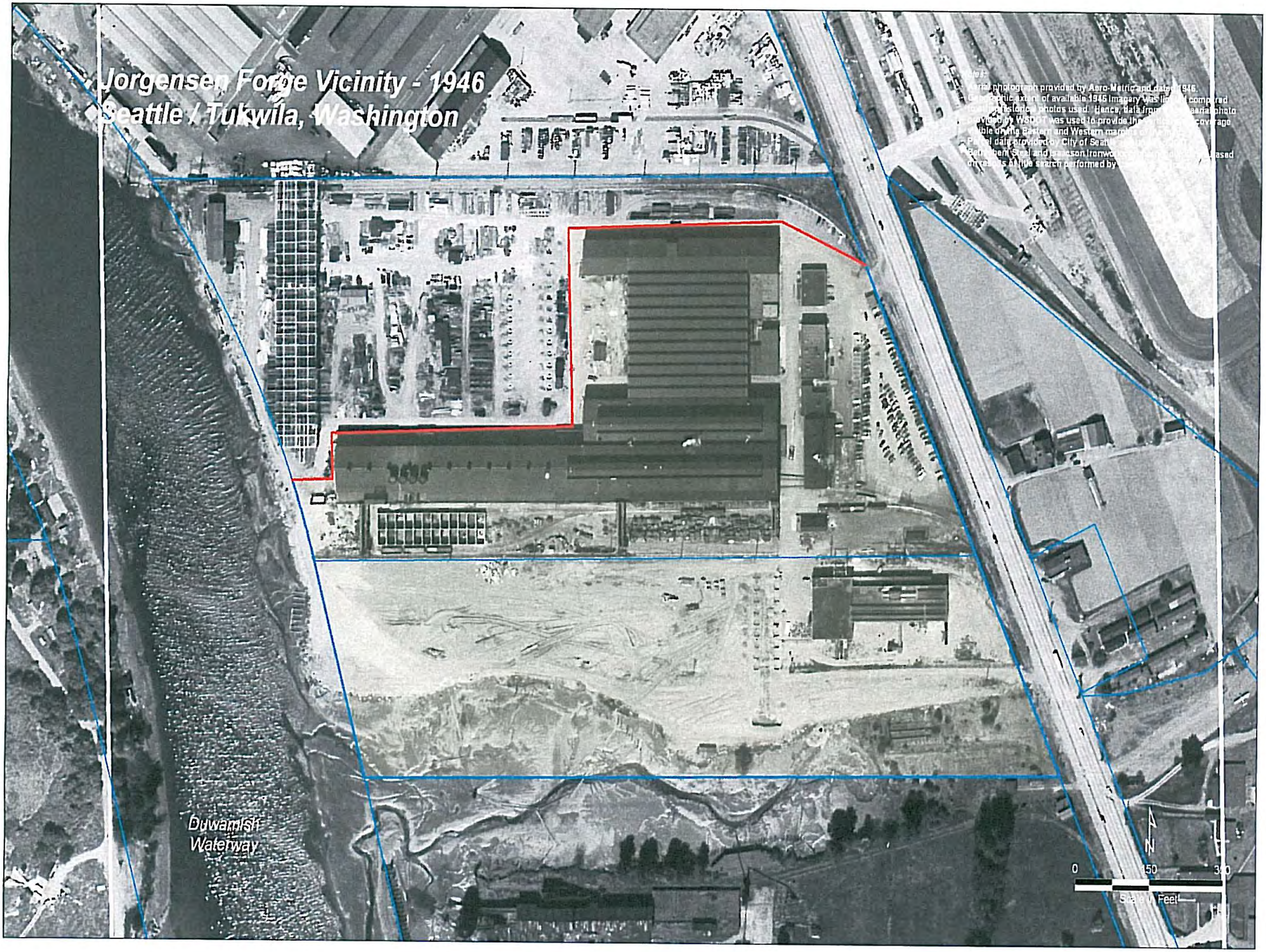
ANCHOR ENVIRONMENTAL, L.L.C.

FARALLON CONSULTING

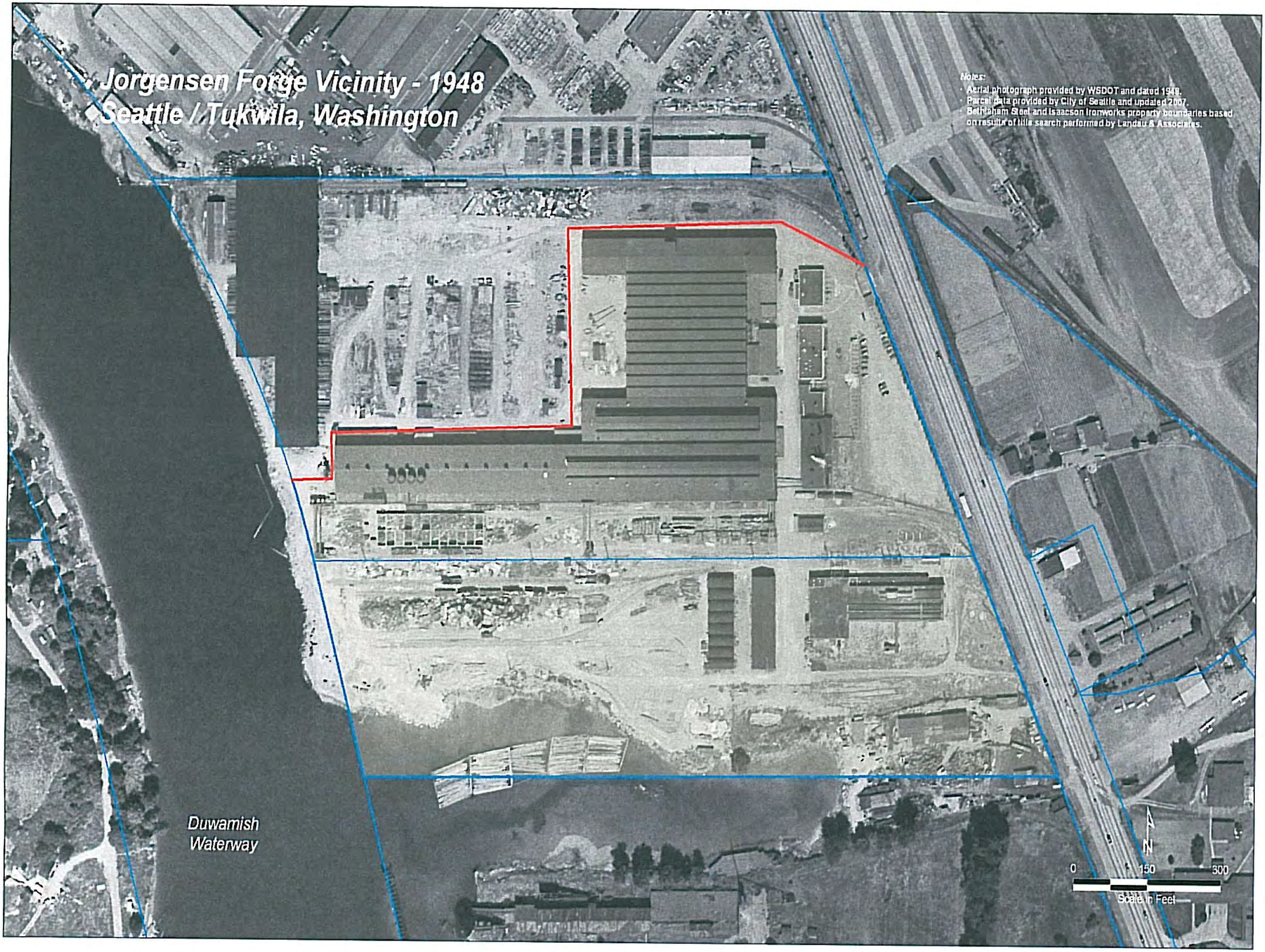
Figure A-2
1940 Aerial Photograph of Sediment Investigation Area
Jorgensen Forge Facility

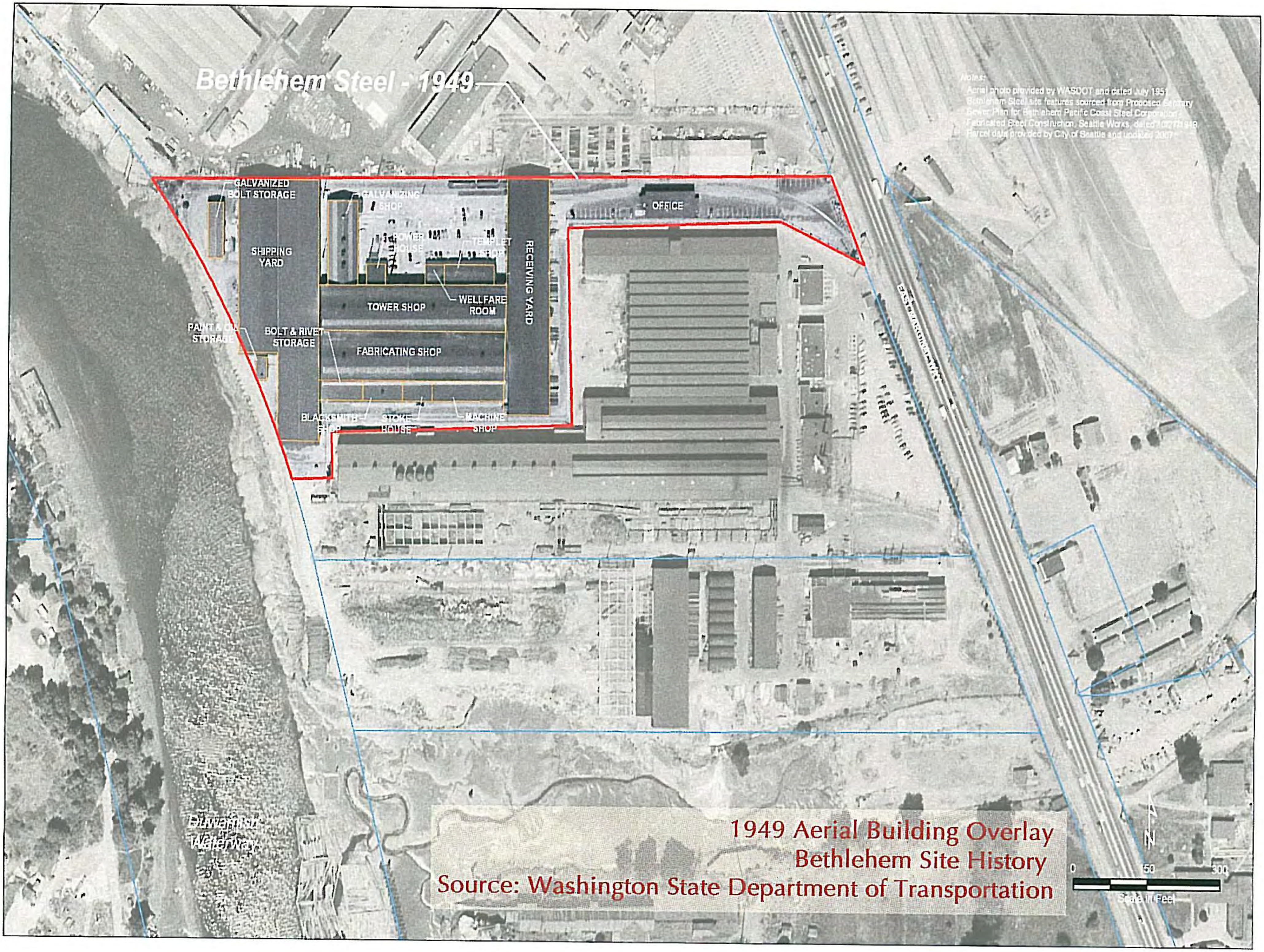

STL # 10084
ISAACSON IRON WORKS - SEATTLE - WN.
OBLIQUE FROM WEST
ALT. 1500' F.L. 8 1/4"
3-6-44
2 Diameter Enlargement


2116
Isaacson
IRON WORKS

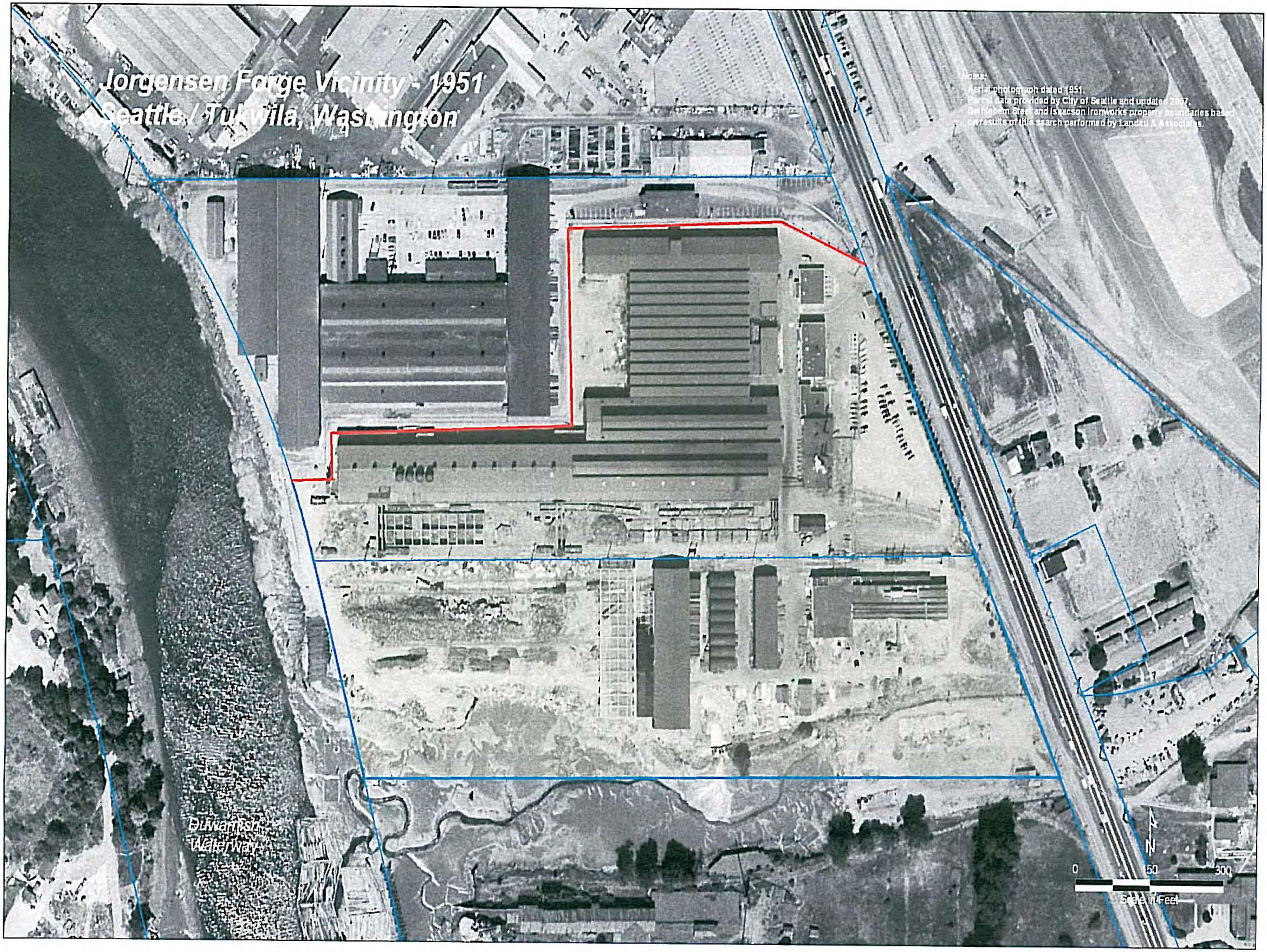

Jorgensen Forge Vicinity - 1946
Seattle / Tukwila, Washington
Duwamish
Waterway
0
150
300
Scale in Feet

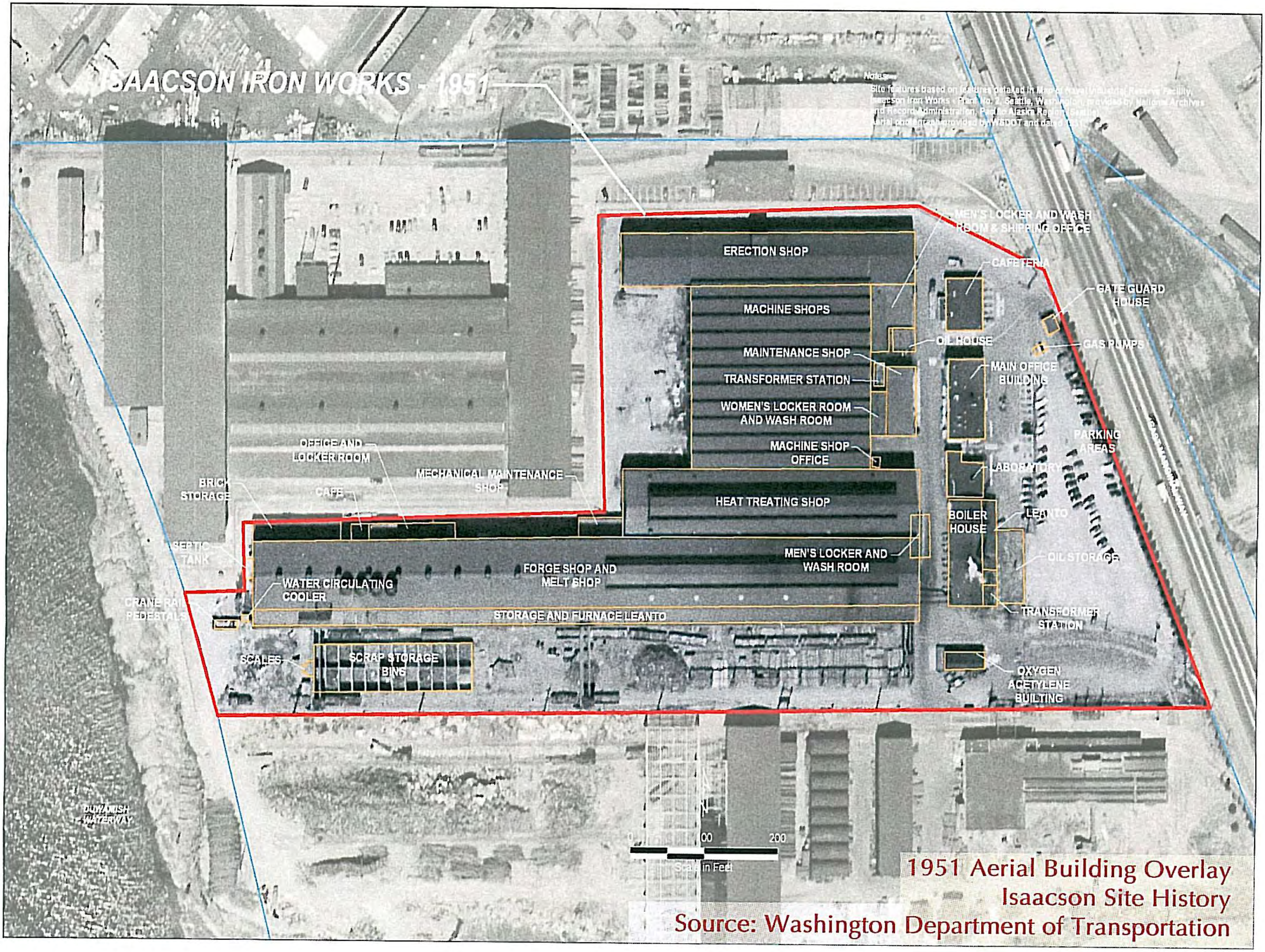
Camouflage-Boeing Plant 2, Seattle, 2-19-46,
Walker & Assoc. Collection, #5409


Jorgensen Forge Vicinity - 1948
Seattle / Tukwila, Washington
Notes:
· Aerial photograph provided by WSDOT and dated 1948.
· Parcel data provided by City of Seattle and updated 2007.
· Bethlehem Steel and Isaacson Ironworks property boundaries based on results of title search performed by Landau & Associates.
Duwamish Waterway
N
0
150
300
Scale in Feet

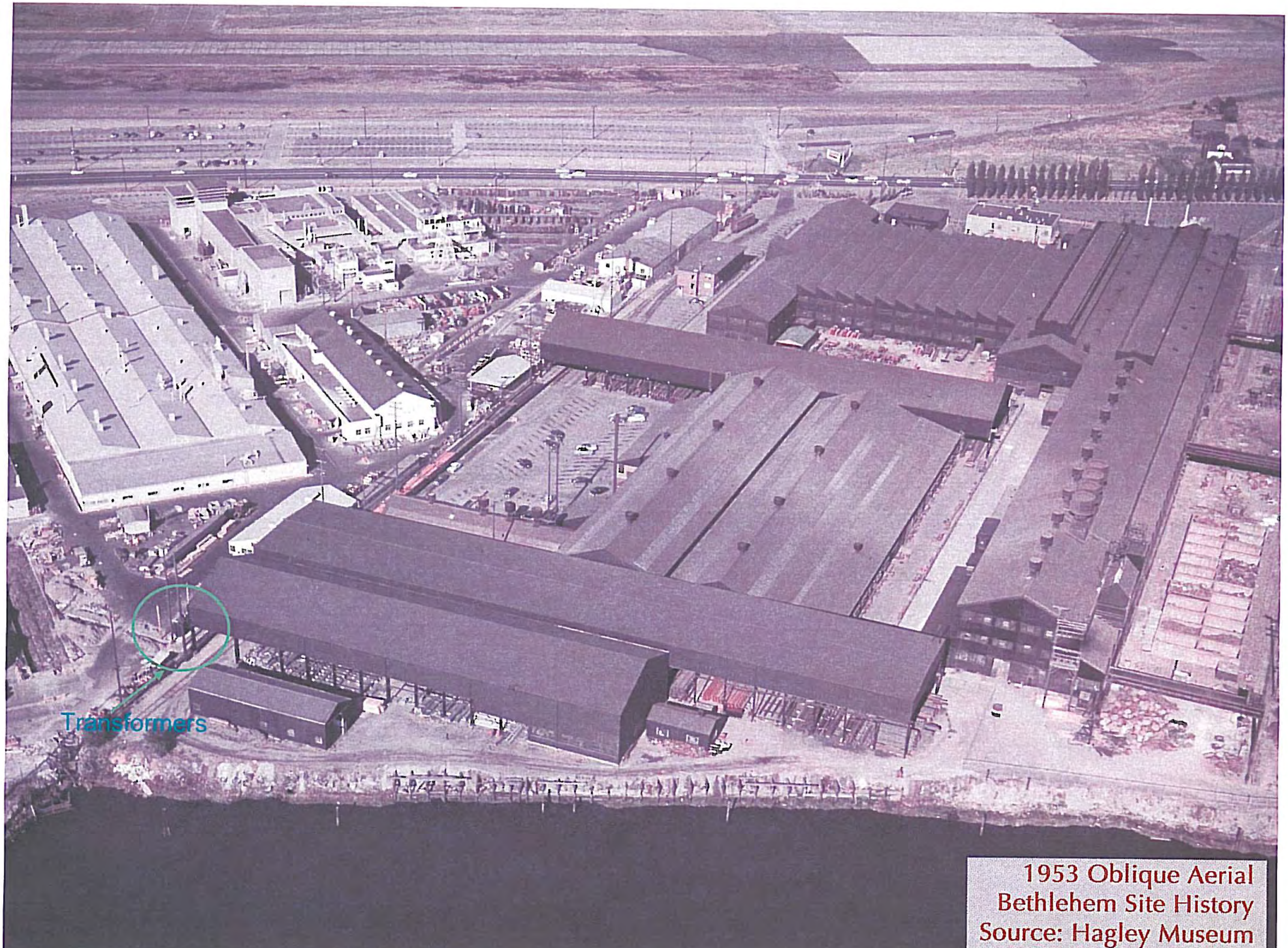


1949 Aerial Building Overlay
Bethlehem Site History
Source: Washington State Department of Transportation


Jorgensen Forge Vicinity - 1951
Seattle / Tukwila, Washington
Notes:
Aerial photograph dated 1951.
Parcel data provided by City of Seattle and updated 2007.
Bethlehem Steel and Isaacson Ironworks property boundaries based on results of title search performed by Landau & Associates.
Duwamish Waterway
N
0
150
300
Scale in Feet

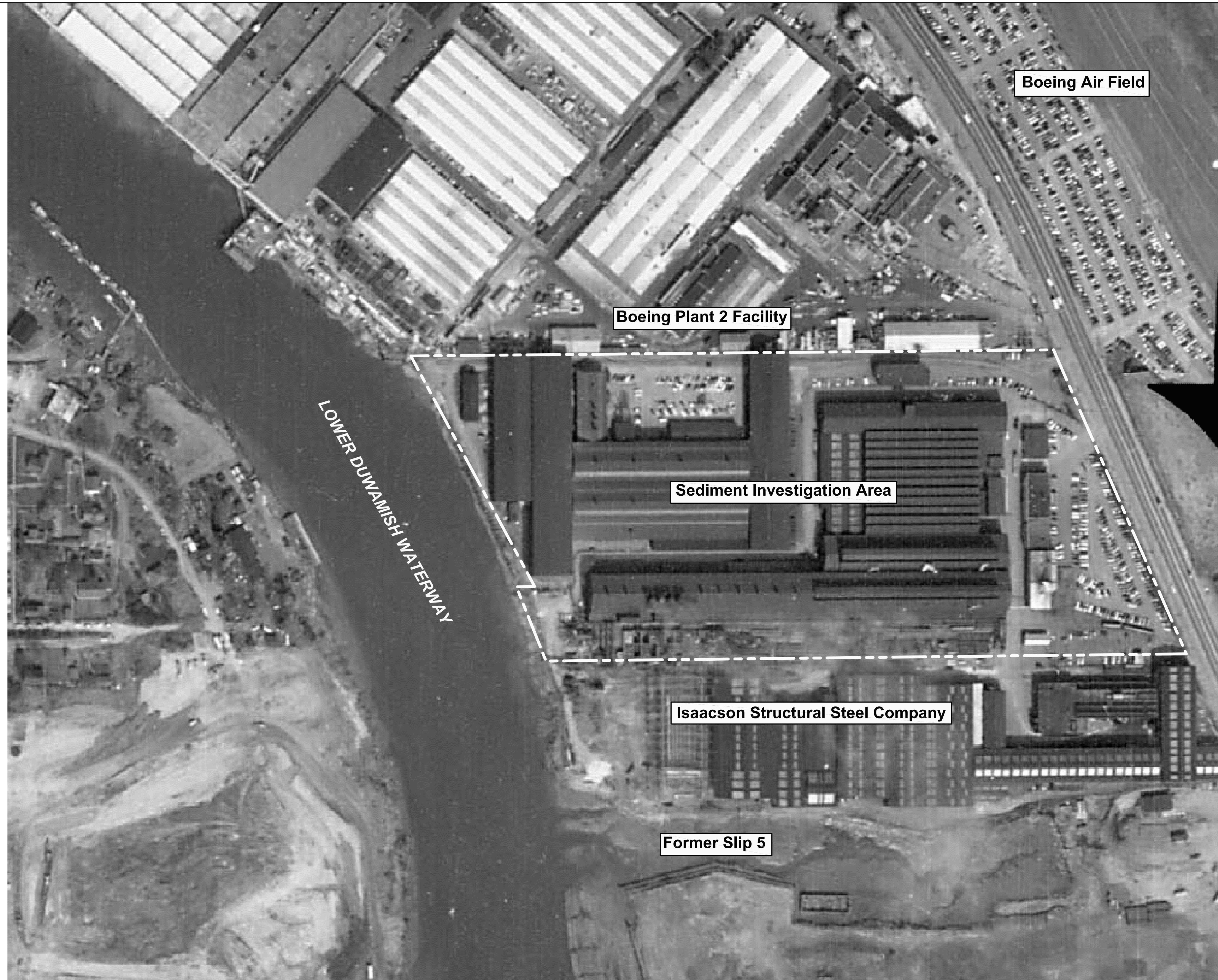


1951 Aerial Building Overlay
Isaacson Site History
Source: Washington Department of Transportation



1953 Oblique Aerial
Bethlehem Site History
Source: Hagley Museum

Jan 10, 2008 5:17pm cdavidson K:\Jobs\010128-JORGENSEN_FORGE\01012802\01012802-005.dwg A-4



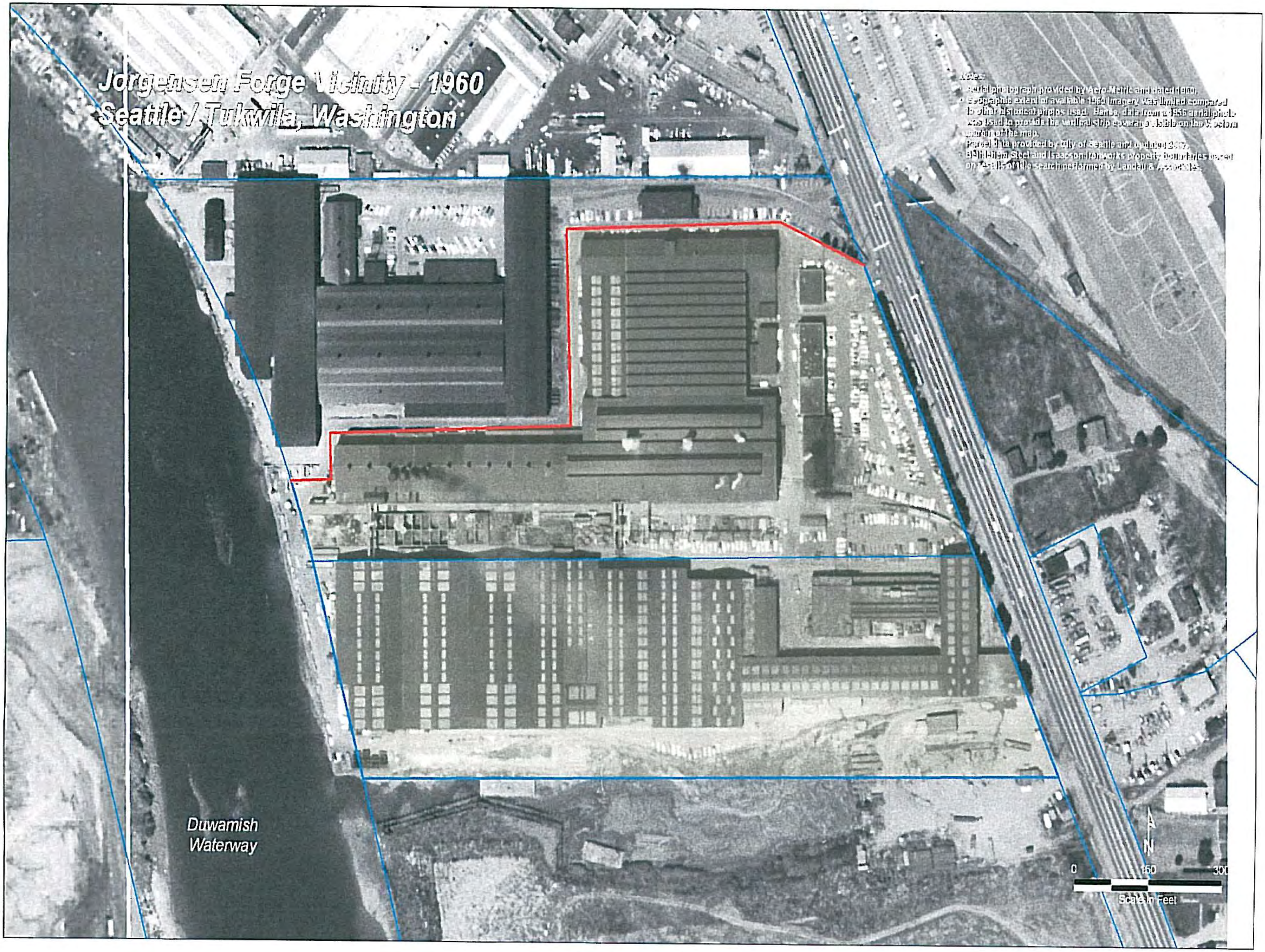
Not to Scale

Source: 1956 Aerial Photograph

ANCHOR ENVIRONMENTAL, L.L.C.

FARALLON CONSULTING

Figure A-4
1956 Aerial Photograph of Sediment Investigation Area
Jorgensen Forge Facility



Jorgensen Forge Vicinity - 1960
Seattle / Tukwila, Washington
Notes:
Aerial photograph provided by Aero-Metric and dated 1960.
Geographic extent of available 1960 imagery was limited compared to other historical photos used. Hence, data from a 1956 aerial photo was used to provide the vertical strip coverage visible on the Western margin of the map.
Parcel data provided by City of Seattle
Bethlehem Steel and Isaacson Ironworks property boundaries based on results of title search performed by Landau & Associates.
Duwamish Waterway
N
0
150
300
Scale in Feet

Not to Scale

Source: 1969 Aerial Photograph

Jan 10, 2008 5:17pm cdavidson K:\Jobs\010128-JORGENSEN_FORGE\01012802\01012802-005.dwg A-5

ANCHOR ENVIRONMENTAL, L.L.C.

FARALLON CONSULTING

Figure A-5
1969 Aerial Photograph of Sediment Investigation Area
Jorgensen Forge Facility

Not to Scale

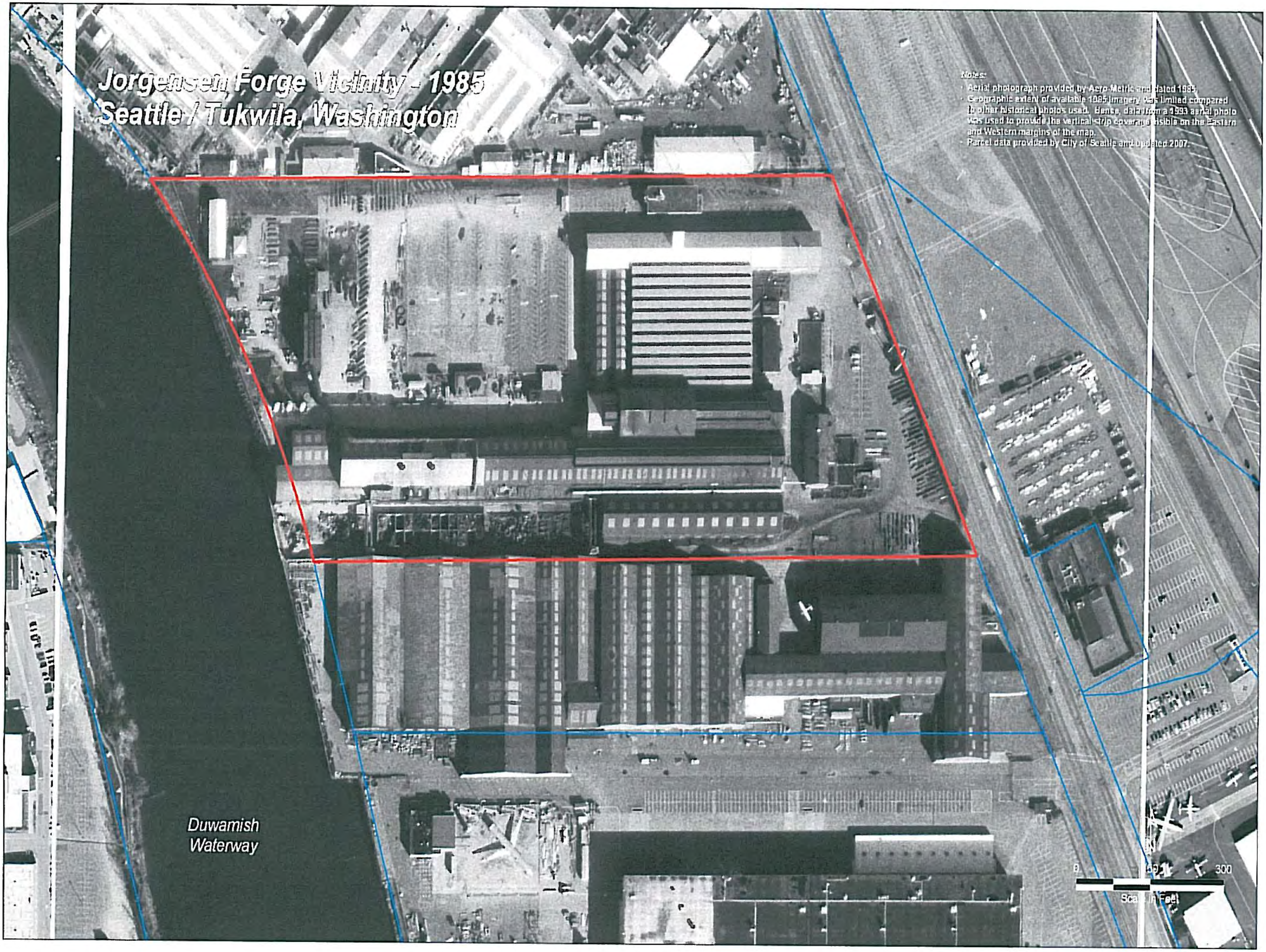
Source: 1974 Aerial Photograph

Jan 10, 2008 5:18pm cdavidson K:\Jobs\010128-JORGENSEN_FORGE\01012802\01012802-005.dwg A-6

ANCHOR ENVIRONMENTAL, L.L.C.

FARALLON CONSULTING

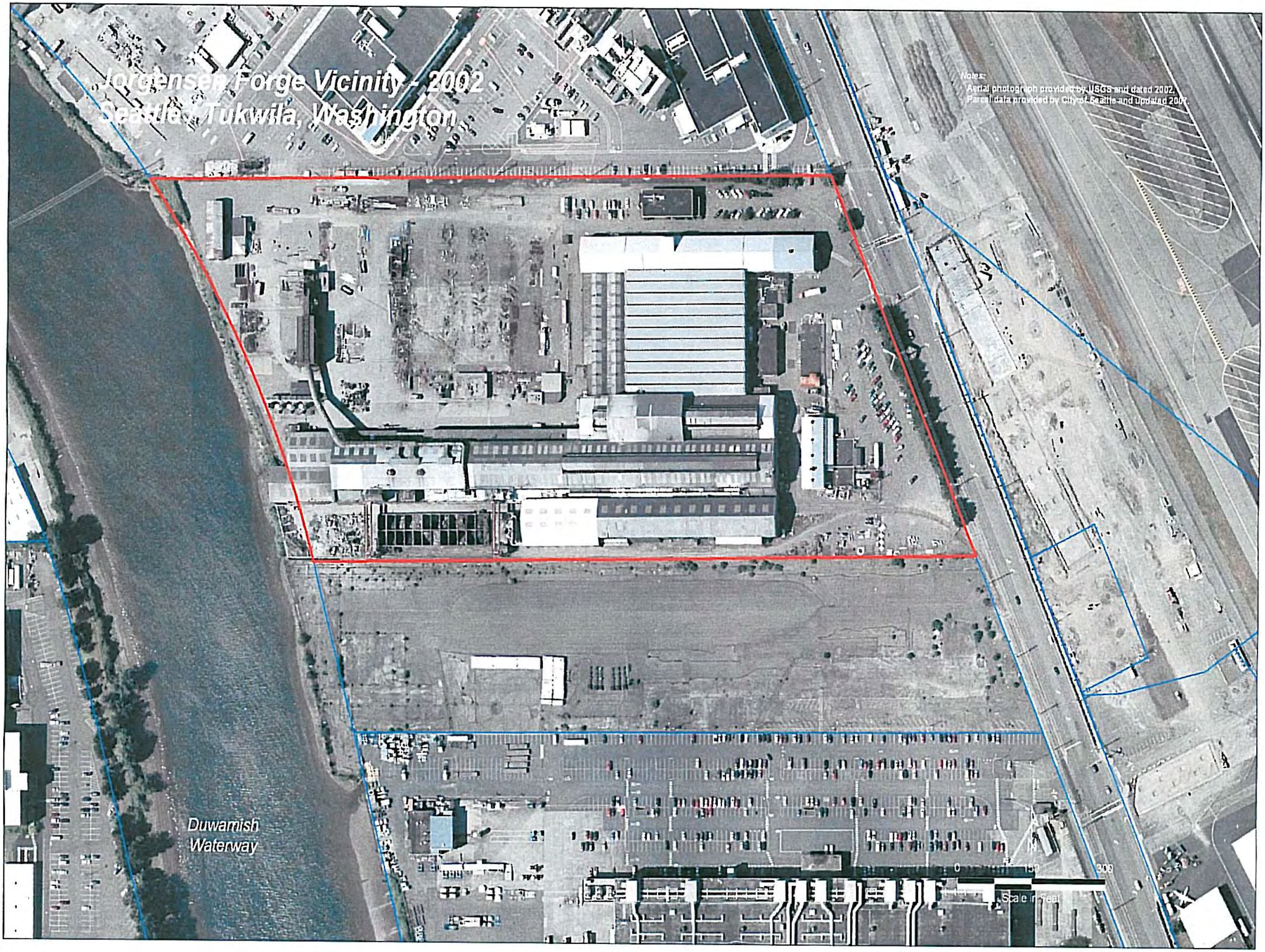
Figure A-6
1974 Aerial Photograph of Sediment Investigation Area
Jorgensen Forge Facility


Jorgensen Forge Vicinity - 1985
Seattle / Tukwila, Washington
Notes:
· Aerial photograph provided by Aero-Metric and dated 1985.
· Geographic extent of available 1985 imagery was limited compared to other historical photos used. Hence, data from a 1993 aerial photo was used to provide the vertical strip coverage visible on the Eastern and Western margins of the map.
· Parcel data provided by City of Seattle and updated 2007.
Duwamish Waterway
0
300
Scale in Feet

ANCHOR ENVIRONMENTAL, L.L.C.

FARALLON CONSULTING

Figure A-8
1995 Aerial Photograph of Sediment Investigation Area
Jorgensen Forge Facility


Jorgensen Forge Vicinity - 2002
Seattle / Tukwila, Washington
Notes:
Aerial photograph provided by USGS and dated 2002.
Parcel data provided by City of Seattle and updated 2007.
Duwamish Waterway
0
150
300
Scale in Feet

Not to Scale

Source: Google Earth
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Jan 10, 2008 5:21pm cdavidson K:\Jobs\010128-JORGENSEN_FORGE\01012802\01012802-004.dwg A-9

Figure A-9
2006 Aerial Photograph of Sediment Investigation Area
Jorgensen Forge Facility

ANCHOR ENVIRONMENTAL, L.L.C.

FARALLON CONSULTING

APPENDIX B: HISTORICAL SITE DATA

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Table B-1 - Petroleum Hydrocarbons and BTEX in Soil

			Petroleum Hydrocarbons (milligrams per kilogram)					BTEX (milligrams per kilogram)					
Sample Location	Sample Date	Sample Depth	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
		Screening Level	260	120	—	2000	2000	0.00056	0.015	16000	16000	0.055	16000
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	—	—	—	—	—	—	—

Table B-1 - 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
		Screening Level	260	120	—	2000	2000	0.00056	0.015	16000	16000	0.055	16000
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-1 - Petroleum Hydrocarbons and BTEX in Soil

			Petroleum Hydrocarbons (milligrams per kilogram)					BTEX (milligrams per kilogram)					
Sample Location	Sample Date	Sample Depth	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
		Screening Level	260	120	—	2000	2000	0.00056	0.015	16000	16000	0.055	16000
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-1 - Petroleum Hydrocarbons and BTEX in Soil

Sample Location	Sample Date	Sample Depth	Petroleum Hydrocarbons (milligrams per kilogram): Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Hydraulic Fluids	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	BTEX (milligrams per kilogram): 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
		Screening Level	260	120	—	2000	2000	0.00056	0.015	16000	16000	0.055	16000
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-1 - 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
		Screening Level	260	120	—	2000	2000	0.00056	0.015	16000	16000	0.055	16000
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	—	—	—	—	—	—	—

Table B-1 - 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
		Screening Level	260	120	—	2000	2000	0.00056	0.015	16000	16000	0.055	16000
PL2-JF04A	02/16/2005	8'-10'	34 U	—	—	70 J	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—

Table B-1 - Petroleum Hydrocarbons and BTEX in Soil

			Petroleum Hydrocarbons (milligrams per kilogram)					BTEX (milligrams per kilogram)					
Sample Location	Sample Date	Sample Depth	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
		Screening Level	260	120	—	2000	2000	0.00056	0.015	16000	16000	0.055	16000
SB-07234	06/10/2003	12'-14'	130	280	—	280	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—

Table B-1 - 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
		Screening Level	260	120	—	2000	2000	0.00056	0.015	16000	16000	0.055	16000
T2B4	01/13/2011	3'-5'	42	—	—	550	—	—	—	—	—	—	—
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	TPH (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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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	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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

	Sample Location	Sample Depth	Sample Date	TPH (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
			Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
*	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-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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

			TPH (milligrams per liter)				BTEX (micrograms per liter)					
Sample Location	Sample Depth	Sample Date	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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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
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	—

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

			TPH (milligrams per liter)				BTEX (micrograms per liter)					
Sample Location	Sample Depth	Sample Date	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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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	—	—	—	—	—	—
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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

			TPH (milligrams per liter)				BTEX (micrograms per liter)					
Sample Location	Sample Depth	Sample Date	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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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
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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	TPH (milligrams per liter) Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	BTEX (micrograms per liter) 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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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
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	—	—	—	—	—	—	—

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	TPH (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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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	—	—	—	—	—	—	—
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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

			TPH (milligrams per liter)				BTEX (micrograms per liter)					
Sample Location	Sample Depth	Sample Date	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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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
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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

			TPH (milligrams per liter)				BTEX (micrograms per liter)					
Sample Location	Sample Depth	Sample Date	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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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	—
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	—

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

	Sample Location	Sample Depth	Sample Date	TPH (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
			Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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
*	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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	TPH (milligrams per liter) Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	BTEX (micrograms per liter) 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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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
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-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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

	Sample Location	Sample Depth	Sample Date	TPH (milligrams per liter) Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	BTEX (micrograms per liter) 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
			Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
*	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	—	—	—	—	—	—
*	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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	TPH (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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
* 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
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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	TPH (milligrams per liter) Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	BTEX (micrograms per liter) 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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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
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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	TPH (milligrams per liter) Diesel-Range Petroleum Hydrocarbons	Gasoline-Range Petroleum Hydrocarbons	Oil-Range Petroleum Hydrocarbons	Total Petroleum Hydrocarbons	BTEX (micrograms per liter) 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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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	—
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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	TPH (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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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	—
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

Table B-2 - Petroleum Hydrocarbons and BTEX in Groundwater

Sample Location	Sample Depth	Sample Date	TPH (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
		Screening Level	500	800	500	—	1.6	31	1600	431.7	130	331.59
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	—
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-3 - Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCB Aroclors
			(milligrams per kilogram)									
		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
		Screening Level	—	—	—	—	—	—	—	—	—	0.0000022
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
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

Table B-3 - Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	Aroclor-1016 (milligrams per kilogram)	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
		Screening Level	—	—	—	—	—	—	—	—	—	0.0000022
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
* 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

Table B-3 - Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCB Aroclors
			(milligrams per kilogram)									
		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
		Screening Level	—	—	—	—	—	—	—	—	—	0.0000022
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
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

Table B-3 - Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	Aroclor-1016 (milligrams per kilogram)	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
		Screening Level	—	—	—	—	—	—	—	—	—	0.0000022
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
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

Table B-3 - Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCB Aroclors
			(milligrams per kilogram)									
		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
		Screening Level	—	—	—	—	—	—	—	—	—	0.0000022
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
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

Table B-3 - Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCB Aroclors
			(milligrams per kilogram)									
		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
		Screening Level	—	—	—	—	—	—	—	—	—	0.0000022
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
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

Table B-3 - Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCB Aroclors
			(milligrams per kilogram)									
		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
		Screening Level	—	—	—	—	—	—	—	—	—	0.0000022
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
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

Table B-3 - 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
		Screening Level	—	—	—	—	—	—	—	—	—	0.0000022
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
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
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

Table B-3 - Polychlorinated Biphenyls in Soil

Sample Location	Sample Date	Sample Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCB Aroclors
			(milligrams per kilogram)									
		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
		Screening Level	—	—	—	—	—	—	—	—	—	0.0000022
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-4 - Polychlorinated Biphenyls in Groundwater

	Sample Location	Sample Depth	Sample Date	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCB Aroclors
				(micrograms per liter)									
			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
			Screening Level	—	—	—	—	—	—	—	—	—	0.000007
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-4 - Polychlorinated Biphenyls in Groundwater

Sample Location	Sample Depth	Sample Date	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248 (micrograms per liter)	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
		Screening Level	—	—	—	—	—	—	—	—	—	0.000007
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-4 - Polychlorinated Biphenyls in Groundwater

Sample Location	Sample Depth	Sample Date	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268	Total PCB Aroclors
			(micrograms per liter)									
		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
		Screening Level	—	—	—	—	—	—	—	—	—	0.000007
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-5 - 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 PAHs
			(milligrams per kilogram)							
		CAS	50-32-8	56-55-3	205-99-2	207-08-9	218-01-9	53-70-3	193-39-5	TOT_PAH
		Screening Level	0.000016	0.000057	0.0002	0.002	0.0064	0.000029	0.00056	—
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

Table B-5 - 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 PAHs
			(milligrams per kilogram)							
		CAS	50-32-8	56-55-3	205-99-2	207-08-9	218-01-9	53-70-3	193-39-5	TOT_PAH
		Screening Level	0.000016	0.000057	0.0002	0.002	0.0064	0.000029	0.00056	—
T3B2	01/13/2011	3'-5'	0.06 U	0.06 U	—	—	0.06 U	0.06 U	0.06 U	ND
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-6 - Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	Benzo(a)pyrene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Total PAHs
			(micrograms per liter)							
		CAS	50-32-8	56-55-3	205-99-2	207-08-9	218-01-9	53-70-3	193-39-5	TOT_PAH
		Screening Level	0.000016	0.00016	0.00016	0.0016	0.016	0.000016	0.00016	—
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

Table B-6 - Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	Benzo(a)pyrene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Total PAHs
			(micrograms per liter)							
		CAS	50-32-8	56-55-3	205-99-2	207-08-9	218-01-9	53-70-3	193-39-5	TOT_PAH
		Screening Level	0.000016	0.00016	0.00016	0.0016	0.016	0.000016	0.00016	—
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
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
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

Table B-6 - Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	Benzo(a)pyrene (micrograms per liter)	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Total PAHs
		CAS	50-32-8	56-55-3	205-99-2	207-08-9	218-01-9	53-70-3	193-39-5	TOT_PAH
		Screening Level	0.000016	0.00016	0.00016	0.0016	0.016	0.000016	0.00016	—
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
* 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

Table B-6 - Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	Benzo(a)pyrene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Total PAHs
			(micrograms per liter)							
		CAS	50-32-8	56-55-3	205-99-2	207-08-9	218-01-9	53-70-3	193-39-5	TOT_PAH
		Screening Level	0.000016	0.00016	0.00016	0.0016	0.016	0.000016	0.00016	—
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
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

Table B-6 - Carcinogenic Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	Benzo(a)pyrene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Total PAHs
			(micrograms per liter)							
		CAS	50-32-8	56-55-3	205-99-2	207-08-9	218-01-9	53-70-3	193-39-5	TOT_PAH
		Screening Level	0.000016	0.00016	0.00016	0.0016	0.016	0.000016	0.00016	—
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-7 - Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Date	Sample Depth	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
			(milligrams per kilogram)											
		CAS	90-12-0	91-57-6	83-32-9	208-96-8	120-12-7	191-24-2	132-64-9	206-44-0	86-73-7	91-20-3	85-01-8	129-00-0
		Screening Level	29.43	0.67	0.028	1.3	0.051	0.67	0.54	0.09	0.029	0.0021	1.5	0.14
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	—	—

Table B-7 - Other Polycyclic Aromatic Hydrocarbons in Soil

Sample Location	Sample Date	Sample Depth	(milligrams per kilogram)											
			1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	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	132-64-9	206-44-0	86-73-7	91-20-3	85-01-8	129-00-0
		Screening Level	29.43	0.67	0.028	1.3	0.051	0.67	0.54	0.09	0.029	0.0021	1.5	0.14
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
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-8 - Other Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
			(micrograms per liter)												
		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
		Screening Level	1.51	32	5.34	—	2.15	—	—	16	1.82	3.67	1.4	—	2.01
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

Table B-8 - Other Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
			(micrograms per liter)												
		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
		Screening Level	1.51	32	5.34	—	2.15	—	—	16	1.82	3.67	1.4	—	2.01
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
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

Table B-8 - Other Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
			(micrograms per liter)												
		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
		Screening Level	1.51	32	5.34	—	2.15	—	—	16	1.82	3.67	1.4	—	2.01
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
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

Table B-8 - Other Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Benzo(j)fluoranthene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
			(micrograms per liter)												
		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
		Screening Level	1.51	32	5.34	—	2.15	—	—	16	1.82	3.67	1.4	—	2.01
* 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
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

Table B-8 - Other Polycyclic Aromatic Hydrocarbons in Groundwater

Sample Location	Sample Depth	Sample Date	1-Methylnaphthalene (micrograms per liter)	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
		Screening Level	1.51	32	5.34	—	2.15	—	—	16	1.82	3.67	1.4	—	2.01
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
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-9A -Semi-Volatile 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
		Screening Level	1.13	0.00019	0.0043	0.0031	0.029	0.011	0.01	—	—
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-9A -Semi-Volatile 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
		Screening Level	1.13	0.00019	0.0043	0.0031	0.029	0.011	0.01	—	—
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-9B -Semi-Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Phenols (milligrams per kilogram)					Chlorinated Benzenes (milligrams per kilogram)				
			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
		Screening Level	—	0.67	7	0.0000018	0.12	0.000072	0.0031	—	0.0081	0.0000004
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-9B -Semi-Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Phenols (milligrams per kilogram)					Chlorinated Benzenes (milligrams per kilogram)				
			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
		Screening Level	—	0.67	7	0.0000018	0.12	0.000072	0.0031	—	0.0081	0.0000004
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-9B -Semi-Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Phenols (milligrams per kilogram)					Chlorinated Benzenes (milligrams per kilogram)				
			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
		Screening Level	—	0.67	7	0.0000018	0.12	0.000072	0.0031	—	0.0081	0.0000004
* 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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-9C - Semi-Volatile 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
		Screening Level	0.0051	0.00018	0.015	0.034	0.071	0.33	0.000069	0.11	6400	800
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

Table B-9C - Semi-Volatile 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
		Screening Level	0.0051	0.00018	0.015	0.034	0.071	0.33	0.000069	0.11	6400	800
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
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-9D - Semi-Volatile 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
		Screening Level	0.0000033	—	—	0.81	—	320	0.17	0.057	3200	—
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-9D - Semi-Volatile 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
		Screening Level	0.0000033	—	—	0.81	—	320	0.17	0.057	3200	—
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-9E - Semi-Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Other SVOCs (milligrams per kilogram)								
			Bis(2-chloroethyl)ether	Carbazole	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine
		CAS	111-44-4	86-74-8	87-68-3	77-47-4	67-72-1	78-59-1	98-95-3	621-64-7	86-30-6
		Screening Level	0.000022	—	0.00054	0.2	0.000041	0.037	0.041	0.000018	0.0011
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	—	—	—	—	—	—

Table B-9E - Semi-Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Other SVOCs (milligrams per kilogram)								
			Bis(2-chloroethyl)ether	Carbazole	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine
		CAS	111-44-4	86-74-8	87-68-3	77-47-4	67-72-1	78-59-1	98-95-3	621-64-7	86-30-6
		Screening Level	0.000022	—	0.00054	0.2	0.000041	0.037	0.041	0.000018	0.0011
MW-50	02/12/2009	6.5'	—	—	0.0052 U	—	—	—	—	—	—
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-10A - Semi-Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	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
				Phenols (micrograms per liter)								
			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
			Screening Level	600	0.28	10	6.34	100	17	26.97	—	7
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-10A - Semi-Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	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
			Phenols (micrograms per liter)								
		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
		Screening Level	600	0.28	10	6.34	100	17	26.97	—	7
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	—	—

Table B-10A - Semi-Volatile 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
			Screening Level	600	0.28	10	6.34	100	17	26.97	—	7
*	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	—	—
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	—	—

Table B-10A - Semi-Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	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
			Phenols (micrograms per liter)								
		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
		Screening Level	600	0.28	10	6.34	100	17	26.97	—	7
* 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-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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-10B - Semi-Volatile 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
		Screening Level	36	800	—	0.002	365.17	0.037	4.61	2	4.93	0.000005
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-10B - Semi-Volatile 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
		Screening Level	36	800	—	0.002	365.17	0.037	4.61	2	4.93	0.000005
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
Area 6												
* MW-6		03/02/1990	—	—	—	—	—	—	0.5 U	0.5 U	0.5 U	—

Table B-10B - Semi-Volatile 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
		Screening Level	36	800	—	0.002	365.17	0.037	4.61	2	4.93	0.000005
* 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
* 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

Table B-10B - Semi-Volatile 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
			Screening Level	36	800	—	0.002	365.17	0.037	4.61	2	4.93	0.000005
*	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-10B - Semi-Volatile 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
		Screening Level	36	800	—	0.002	365.17	0.037	4.61	2	4.93	0.000005
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-10C - Semi-Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Phthalates (micrograms per liter)						Other SVOCs (micrograms per liter)			
			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
		Screening Level	0.046	0.013	8	92.55	600	0.0039	0.18	296.72	100	160
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-10C - Semi-Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Phthalates (micrograms per liter)						Other SVOCs (micrograms per liter)			
			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
		Screening Level	0.046	0.013	8	92.55	600	0.0039	0.18	296.72	100	160
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
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	—	—	—	—

Table B-10C - Semi-Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Phthalates (micrograms per liter)						Other SVOCs (micrograms per liter)			
				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
			Screening Level	0.046	0.013	8	92.55	600	0.0039	0.18	296.72	100	160
*	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	—	—	—	—
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

Table B-10C - Semi-Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Phthalates (micrograms per liter)						Other SVOCs (micrograms per liter)			
				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
			Screening Level	0.046	0.013	8	92.55	600	0.0039	0.18	296.72	100	160
*	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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-10D - Semi-Volatile 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
		Screening Level	0.0033	—	—	2295.92	—	64	589.33	800	900	—	0.06
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-10D - Semi-Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	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
			Other SVOCs (micrograms per liter)										
		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
		Screening Level	0.0033	—	—	2295.92	—	64	589.33	800	900	—	0.06
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
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	—	—	—

Table B-10D - Semi-Volatile 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
		Screening Level	0.0033	—	—	2295.92	—	64	589.33	800	900	—	0.06
* 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	—	—	—
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	—	—	—

Table B-10D - Semi-Volatile 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
		Screening Level	0.0033	—	—	2295.92	—	64	589.33	800	900	—	0.06
* 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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-10E - Semi-Volatile 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
		Screening Level	—	0.01	1	0.02	110	100	0.34	0.058	0.69
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

Table B-10E - Semi-Volatile 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
		Screening Level	—	0.01	1	0.02	110	100	0.34	0.058	0.69
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	—	0.2 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

Table B-10E - Semi-Volatile 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
			Screening Level	—	0.01	1	0.02	110	100	0.34	0.058	0.69
	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
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

Table B-10E - Semi-Volatile 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
			Screening Level	—	0.01	1	0.02	110	100	0.34	0.058	0.69
*	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	—	0.2 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

Table B-10E - Semi-Volatile 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
		Screening Level	—	0.01	1	0.02	110	100	0.34	0.058	0.69
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
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-11A - Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	1,1,1,2-Tetrachloroethane (milligrams per kilogram)	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
		Screening Level	38.46	21.08	0.00011	0.00033	175.44	1.36	—	20	0.033	1.25	0.024
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

Table B-11A - 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
		Screening Level	38.46	21.08	0.00011	0.00033	175.44	1.36	—	20	0.033	1.25	0.024
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
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-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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-11B - Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane	Bromoethane	Bromoform	Bromomethane
			(milligrams per kilogram)										
		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
		Screening Level	0.001	—	—	—	1600	—	640	—	—	0.005	0.079
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-11C - Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorobromomethane
			(milligrams per kilogram)									
		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
		Screening Level	0.00015	0.1	—	0.052	—	160	0.00063	0.00077	800	0.00096
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

Table B-11C - Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorobromomethane
			(milligrams per kilogram)									
		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
		Screening Level	0.00015	0.1	—	0.052	—	160	0.00063	0.00077	800	0.00096
* MW-24	09/14/1992	3.5'-4'	—	—	—	—	—	0.1 U	—	—	—	—
* 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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-11D - Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	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
			(milligrams per kilogram)							
		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
		Screening Level	16000	0.5	—	0.03	0.0016	0.32	0.00063	—
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

Table B-11D - Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	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
			(milligrams per kilogram)							
		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
		Screening Level	16000	0.5	—	0.03	0.0016	0.32	0.00063	—
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
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-11E - Halogenated Volatile Organic Compounds in Soil

	Sample Location	Sample Name	Sample Date	Sample Depth	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
					(milligrams per kilogram)		
				CAS	75-69-4	76-13-1	75-01-4
				Screening Level	24000	2400000	0.000055
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

Table B-11E - 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
			Screening Level	24000	2400000	0.000055
* 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-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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-12A - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	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
			(micrograms per liter)								
		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
		Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
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-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

Table B-12A - 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
		Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
MW-25	6'-19.75'	09/17/1992	—	1 U	—	—	0.096 J	1 U	—	—	—
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-12A - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	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
			(micrograms per liter)								
		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
		Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
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	—	—	—

Table B-12A - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	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
			(micrograms per liter)								
		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
		Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
GP-09112	15'	09/19/1995	—	1 U	—	—	1 U	1 U	—	—	—
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	—	—	—

Table B-12A - 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
		Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
* 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
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	—	—	—

Table B-12A - Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	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
				(micrograms per liter)								
			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
			Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
*	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
	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	—	—	—

Table B-12A - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	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
			(micrograms per liter)								
		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
		Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
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	—	—	—
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

Table B-12A - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,1,1,2-Tetrachloroethane (micrograms per liter)	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
		Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
* 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	—	—	—
* 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	—	—	—	—	—	—	—

Table B-12A - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	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
			(micrograms per liter)								
		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
		Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
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	—	—	—
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	—	—	—

Table B-12A - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	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
			(micrograms per liter)								
		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
		Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
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	—	—	—
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	—	—	—

Table B-12A - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	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
			(micrograms per liter)								
		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
		Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
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	—	—	—
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'	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	—	—	—

Table B-12A - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	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
			(micrograms per liter)								
		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
		Screening Level	7.36	5460.62	0.3	0.9	11.08	129.41	—	—	0.0015
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
WP-266-09	38'	08/04/1993	—	1 U	1 U	1 U	1 U	1 U	—	—	—

NOTES:
Bold text indicates a detected result.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
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-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	—

Table B-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
MW-25	6'-19.75'	09/17/1992	—	2000 U	—	—	—	—	—	—	—	—
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-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
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	—	—	—	—	—	—	—	—

Table B-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
GP-09112	15'	09/19/1995	—	1 U	—	—	—	—	—	—	—	—
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	—

Table B-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
* 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	—
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	—	—	—	—	—	—	—	—

Table B-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
* 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	—
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	—	—	—	—	—	—	—	—

Table B-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
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	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—

Table B-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
* 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	—	—	—	—	—	—	—	—
* 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	—	—	—	—	—	—	—	—	—	—

Table B-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
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	—	—	—	—	—	—	—	—
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'	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	—	—	—	—	—	—	—	—

Table B-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
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	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—

Table B-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
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	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—

Table B-12B - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	2-Chloroethyl vinyl ether	2-Chlorotoluene	4-Chlorotoluene	Bromobenzene	Bromochloromethane
			(micrograms per liter)									
		CAS	96-12-8	107-06-2	78-87-5	142-28-9	594-20-7	110-75-8	95-49-8	106-43-4	108-86-1	74-97-5
		Screening Level	0.2	4.22	3.1	—	—	—	160	—	64	—
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
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-12C - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			(micrograms per liter)										
		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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
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	—	—	—

Table B-12C - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			(micrograms per liter)										
		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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
MW-25	6'-19.75'	04/13/1993	—	—	—	—	1 U	1 U	1 U	1 U	—	—	—
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

Table B-12C - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			(micrograms per liter)										
		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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
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
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	—	—

Table B-12C - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			(micrograms per liter)										
		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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
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	—	—
* 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	—	—

Table B-12C - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			(micrograms per liter)										
		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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
* 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
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	—	—

Table B-12C - 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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
* 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
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	—	—

Table B-12C - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			(micrograms per liter)										
		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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
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	—	—
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	—	—

Table B-12C - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			(micrograms per liter)										
		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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
* 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	—	—
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	—	—

Table B-12C - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Bromoethane (micrograms per liter)	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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
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
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	—	—

Table B-12C - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			(micrograms per liter)										
		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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
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
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

Table B-12C - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			(micrograms per liter)										
		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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
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	—	—
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

Table B-12C - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Bromoethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
			(micrograms per liter)										
		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
		Screening Level	—	12	12.85	0.35	200	18526.32	1.19	153.43	16	2	2.2
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	—	—
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-12D - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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
			(micrograms per liter)									
		CAS	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
		Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—
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	—	—

Table B-12D - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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
			(micrograms per liter)									
		CAS	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
		Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—
MW-25	6'-19.75'	11/10/1993	—	—	—	—	—	—	5 U	2 U	—	—
MW-25	6'-19.75'	12/29/2004	—	—	—	—	—	—	1 U	1 U	—	—
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	—	—

Table B-12D - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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
			(micrograms per liter)									
		CAS	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
		Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—
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	—	—
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	—

Table B-12D - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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
			(micrograms per liter)									
		CAS	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
		Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—
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	—
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-12D - Halogenated Volatile Organic Compounds in Groundwater

(micrograms per liter)

	Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
			Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—
	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	—	—

Table B-12D - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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
			(micrograms per liter)									
		CAS	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
		Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—
PL2-JF03A	8'-22.75'	08/26/1996	—	—	—	—	—	—	1 U	1 U	—	—
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	—	—

Table B-12D - Halogenated Volatile Organic Compounds in Groundwater

(micrograms per liter)

Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
		Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—
* 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-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	—	—

Table B-12D - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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
			(micrograms per liter)									
		CAS	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
		Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—
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	—
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	—

Table B-12D - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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
			(micrograms per liter)									
		CAS	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
		Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—
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	—
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	—

Table B-12D - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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
			(micrograms per liter)									
		CAS	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
		Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—
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	—	—
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	—	—

Table B-12D - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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
			(micrograms per liter)									
		CAS	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
		Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—
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	—
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	—

Table B-12D - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Dibromomethane	Dichlorobromomethane	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
			(micrograms per liter)									
		CAS	74-95-3	75-27-4	75-71-8	106-93-4	74-88-4	75-09-2	127-18-4	156-60-5	10061-02-6	110-57-6
		Screening Level	80	1.82	5.65	0.27	—	100	2.9	1000	2	—

NOTES:
Bold text indicates a detected result.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
				(micrograms per liter)			
			CAS	79-01-6	75-69-4	76-13-1	75-01-4
			Screening Level	0.7	2400	182.86	0.18
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-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

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE) (micrograms per liter)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
		Screening Level	0.7	2400	182.86	0.18
MW-25	6'-19.75'	04/13/1993	1 U	—	—	1 U
MW-25	6'-19.75'	11/10/1993	2 U	—	—	10 U
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

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
			(micrograms per liter)			
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
		Screening Level	0.7	2400	182.86	0.18
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
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

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE) (micrograms per liter)	Trichlorofluoromethane (CFC-11) (micrograms per liter)	Trichlorotrifluoroethane (CFC-113) (micrograms per liter)	Vinyl chloride (micrograms per liter)
			CAS	79-01-6	75-69-4	76-13-1	75-01-4
			Screening Level	0.7	2400	182.86	0.18
*	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
	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

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
				(micrograms per liter)			
			CAS	79-01-6	75-69-4	76-13-1	75-01-4
			Screening Level	0.7	2400	182.86	0.18
*	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
*	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

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
			(micrograms per liter)			
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
		Screening Level	0.7	2400	182.86	0.18
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
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

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
				(micrograms per liter)			
			CAS	79-01-6	75-69-4	76-13-1	75-01-4
			Screening Level	0.7	2400	182.86	0.18
	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
*	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

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE) (micrograms per liter)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
		Screening Level	0.7	2400	182.86	0.18
* 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
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

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE) (micrograms per liter)	Trichlorofluoromethane (CFC-11) (micrograms per liter)	Trichlorotrifluoroethane (CFC-113) (micrograms per liter)	Vinyl chloride (micrograms per liter)
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
		Screening Level	0.7	2400	182.86	0.18
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
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

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
			(micrograms per liter)			
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
		Screening Level	0.7	2400	182.86	0.18
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
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

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
			(micrograms per liter)			
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
		Screening Level	0.7	2400	182.86	0.18
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
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

Table B-12E - Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	Trichloroethene (TCE)	Trichlorofluoromethane (CFC-11)	Trichlorotrifluoroethane (CFC-113)	Vinyl chloride
			(micrograms per liter)			
		CAS	79-01-6	75-69-4	76-13-1	75-01-4
		Screening Level	0.7	2400	182.86	0.18
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-13A - Non-Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	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
			(milligrams per kilogram)										
		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
		Screening Level	800	800	400	—	72000	40	1.85	8000	8000	48000	555.56
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:
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Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-13B - Non-Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	1,2,4-Trimethylbenzene (milligrams per kilogram)	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
		Screening Level	800	800	400	—	72000	40	1.85	8000	8000	48000
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

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Table B-13C - Non-Halogenated Volatile Organic Compounds in Soil

Sample Location	Sample Date	Sample Depth	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Vinyl acetate
			(milligrams per kilogram)					
		CAS	104-51-8	103-65-1	135-98-8	100-42-5	98-06-6	108-05-4
		Screening Level	4000	8000	8000	300	8000	80000
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:
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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.

Table B-14A - Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
			(micrograms per liter)								
		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
		Screening Level	238.51	80	40	—	7200	1.1	0.028	398.51	715.29
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	—

Table B-14A - Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
			(micrograms per liter)								
		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
		Screening Level	238.51	80	40	—	7200	1.1	0.028	398.51	715.29
MW-30		02/09/2018	0.02 U	—	—	—	—	—	—	0.04 U	—
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	—

Table B-14A - Non-Halogenated Volatile Organic Compounds in Groundwater

	Sample Location	Sample Depth	Sample Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
				(micrograms per liter)								
			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
			Screening Level	238.51	80	40	—	7200	1.1	0.028	398.51	715.29
	GP-06640	25'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—
	GP-06640	45'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—
	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-14A - 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
			Screening Level	238.51	80	40	—	7200	1.1	0.028	398.51	715.29
	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	—

Table B-14A - Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2,4-Trimethylbenzene (micrograms per liter)	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
		Screening Level	238.51	80	40	—	7200	1.1	0.028	398.51	715.29
* 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	—
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	—

Table B-14A - Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
			(micrograms per liter)								
		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
		Screening Level	238.51	80	40	—	7200	1.1	0.028	398.51	715.29
GP-06637	25'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—
GP-06637	45'	03/15/1995	—	—	—	—	5 U	—	—	1 U	—
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	—

Table B-14A - Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2,4-Trimethylbenzene (micrograms per liter)	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
		Screening Level	238.51	80	40	—	7200	1.1	0.028	398.51	715.29
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	—
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	—

Table B-14A - Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
			(micrograms per liter)								
		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
		Screening Level	238.51	80	40	—	7200	1.1	0.028	398.51	715.29
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	—
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	—

Table B-14A - Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone (micrograms per liter)	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
		Screening Level	238.51	80	40	—	7200	1.1	0.028	398.51	715.29
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	—
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	—

Table B-14A - Non-Halogenated Volatile Organic Compounds in Groundwater

Sample Location	Sample Depth	Sample Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Hexanone	4-Isopropyltoluene	Acetone	Acrolein	Acrylonitrile	Carbon disulfide	Isopropylbenzene (Cumene)
			(micrograms per liter)								
		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
		Screening Level	238.51	80	40	—	7200	1.1	0.028	398.51	715.29
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	—
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-14B - 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
			(micrograms per liter)							
		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
		Screening Level	1746564.89	469589.04	400	800	800	8186.05	800	7808.55
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

Table B-14B - 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
			(micrograms per liter)							
		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
		Screening Level	1746564.89	469589.04	400	800	800	8186.05	800	7808.55
PL2-JF01C	74'-78.5'	08/23/2006	1 U	—	—	—	—	0.2 U	—	0.2 U
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-15A - Metals in Soil

Sample Location	Sample Date	Sample Depth	Aluminum (milligrams per kilogram)	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
		Screening Level	32580	4.08	7.3	8.26	3.46	0.77	48	20	36.36	56000
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	—

Table B-15A - Metals in Soil

Sample Location	Sample Date	Sample Depth	Aluminum (milligrams per kilogram)	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
		Screening Level	32580	4.08	7.3	8.26	3.46	0.77	48	20	36.36	56000
* 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	—
* 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	—

Table B-15A - Metals in Soil

Sample Location	Sample Date	Sample Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron
			(milligrams per kilogram)									
		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
		Screening Level	32580	4.08	7.3	8.26	3.46	0.77	48	20	36.36	56000
* 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 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	—

Table B-15A - Metals in Soil

	Sample Location	Sample Date	Sample Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron
				(milligrams per kilogram)									
			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
			Screening Level	32580	4.08	7.3	8.26	3.46	0.77	48	20	36.36	56000
*	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	—
	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	—

Table B-15A - Metals in Soil

Sample Location	Sample Date	Sample Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron
			(milligrams per kilogram)									
		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
		Screening Level	32580	4.08	7.3	8.26	3.46	0.77	48	20	36.36	56000
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	—
* 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-15A - Metals in Soil

Sample Location	Sample Date	Sample Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron
			(milligrams per kilogram)									
		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
		Screening Level	32580	4.08	7.3	8.26	3.46	0.77	48	20	36.36	56000
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-15B - Metals in Soil

Sample Location	Sample Date	Sample Depth	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			(milligrams per kilogram)								
		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
		Screening Level	50	1100	0.07	47.78	0.3	0.016	0.0044	2	85.1
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

Table B-15B - Metals in Soil

	Sample Location	Sample Date	Sample Depth	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
				(milligrams per kilogram)								
			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
			Screening Level	50	1100	0.07	47.78	0.3	0.016	0.0044	2	85.1
*	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
*	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

Table B-15B - Metals in Soil

	Sample Location	Sample Date	Sample Depth	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
				(milligrams per kilogram)								
			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
			Screening Level	50	1100	0.07	47.78	0.3	0.016	0.0044	2	85.1
*	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 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

Table B-15B - Metals in Soil

	Sample Location	Sample Date	Sample Depth	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
				(milligrams per kilogram)								
			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
			Screening Level	50	1100	0.07	47.78	0.3	0.016	0.0044	2	85.1
*	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
	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

Table B-15B - Metals in Soil

Sample Location	Sample Date	Sample Depth	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			(milligrams per kilogram)								
		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
		Screening Level	50	1100	0.07	47.78	0.3	0.016	0.0044	2	85.1
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
* 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-15B - Metals in Soil

Sample Location	Sample Date	Sample Depth	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			(milligrams per kilogram)								
		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
		Screening Level	50	1100	0.07	47.78	0.3	0.016	0.0044	2	85.1
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
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.

Table B-16A - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Aluminum (micrograms per liter)		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	
		Screening Level	50		90		8		200		4.38		1.19		100		50	4.8	
		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-16A - 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	
		Screening Level	50		90		8		200		4.38		1.19		100		50	4.8	
		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	—	—	—	—	—	—	—	—	—

Table B-16A - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			(micrograms per liter)																
		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	
		Screening Level	50		90		8		200		4.38		1.19		100		50	4.8	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
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
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	—	—	—

Table B-16A - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			(micrograms per liter)																
		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	
		Screening Level	50		90		8		200		4.38		1.19		100		50	4.8	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
* 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-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	—	—	—

Table B-16A - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			(micrograms per liter)																
		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	
		Screening Level	50		90		8		200		4.38		1.19		100		50	4.8	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
* 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
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	—	—	—

Table B-16A - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			(micrograms per liter)																
		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	
		Screening Level	50		90		8		200		4.38		1.19		100		50	4.8	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
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	—	—	—	—
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	—	—	—

Table B-16A - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			(micrograms per liter)																
		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	
		Screening Level	50		90		8		200		4.38		1.19		100		50	4.8	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
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
* 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	—	—	—

Table B-16A - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
		(micrograms per liter)																	
		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	
		Screening Level	50		90		8		200		4.38		1.19		100		50	4.8	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
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	—	—	—
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	—	—	—

Table B-16A - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			(micrograms per liter)																
		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	
		Screening Level	50		90		8		200		4.38		1.19		100		50	4.8	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
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	—	—	—
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	—	—	—

Table B-16A - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			(micrograms per liter)																
		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	
		Screening Level	50		90		8		200		4.38		1.19		100		50	4.8	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
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	—	—	—	—
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	—	—

Table B-16A - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Chromium, hexavalent	Cobalt	
			(micrograms per liter)																
		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	
		Screening Level	50		90		8		200		4.38		1.19		100		50	4.8	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Dissolved	Total	Dissolved
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-16B - Metals in Groundwater

Sample Location	Sample Depths	Sample Date	Copper		Iron		Lead		Manganese		Mercury		Nickel		Selenium		Silver	
			(micrograms per liter)															
		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	
		Screening Level	3.1		32000		8.1		100		0.025		8.2		71		1.9	
		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-16B - Metals in Groundwater

Sample Location	Sample Depths	Sample Date	Copper		Iron		Lead		Manganese		Mercury		Nickel		Selenium		Silver	
		(micrograms per liter)																
		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	
		Screening Level	3.1		32000		8.1		100		0.025		8.2		71		1.9	
		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-16B - Metals in Groundwater

Sample Location	Sample Depths	Sample Date	Copper		Iron		Lead		Manganese		Mercury		Nickel		Selenium		Silver	
			(micrograms per liter)															
		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	
		Screening Level	3.1		32000		8.1		100		0.025		8.2		71		1.9	
		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

Table B-16B - 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	
		Screening Level	3.1		32000		8.1		100		0.025		8.2		71		1.9	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
* 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-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	—	—

Table B-16B - Metals in Groundwater

Sample Location	Sample Depths	Sample Date	Copper		Iron		Lead		Manganese		Mercury		Nickel		Selenium		Silver	
			(micrograms per liter)															
		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	
		Screening Level	3.1		32000		8.1		100		0.025		8.2		71		1.9	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
* 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	—	—
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

Table B-16B - 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	
		Screening Level	3.1		32000		8.1		100		0.025		8.2		71		1.9	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
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	—
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

Table B-16B - Metals in Groundwater

	Sample Location	Sample Depths	Sample Date	Copper Total	Copper Dissolved	Iron Total	Iron Dissolved	Lead Total	Lead Dissolved	Manganese Total	Manganese Dissolved	Mercury Total	Mercury Dissolved	Nickel Total	Nickel Dissolved	Selenium Total	Selenium Dissolved	Silver Total	Silver Dissolved
			(micrograms per liter)																
			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	
			Screening Level	3.1		32000		8.1		100		0.025		8.2		71		1.9	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
*	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-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

Table B-16B - 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	
		Screening Level	3.1		32000		8.1		100		0.025		8.2		71		1.9	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
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
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

Table B-16B - 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	
		Screening Level	3.1		32000		8.1		100		0.025		8.2		71		1.9	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
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
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

Table B-16B - 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	
		Screening Level	3.1		32000		8.1		100		0.025		8.2		71		1.9	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
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
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

Table B-16B - Metals in Groundwater

Sample Location	Sample Depths	Sample Date	Copper		Iron		Lead		Manganese		Mercury		Nickel		Selenium		Silver	
			(micrograms per liter)															
		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	
		Screening Level	3.1		32000		8.1		100		0.025		8.2		71		1.9	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
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.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-16C - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Thallium Total	Thallium Dissolved	Vanadium Total	Vanadium Dissolved	Zinc Total	Zinc Dissolved
			(micrograms per liter)					
		CAS	7440-28-0		7440-62-2		7440-66-6	
		Screening Level	0.062		140		81	
		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-16C - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Thallium Total	Thallium Dissolved	Vanadium Total	Vanadium Dissolved	Zinc Total	Zinc Dissolved
			(micrograms per liter)					
		CAS	7440-28-0		7440-62-2		7440-66-6	
		Screening Level	0.062		140		81	
		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

Table B-16C - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Thallium Total	Thallium Dissolved	Vanadium Total	Vanadium Dissolved	Zinc Total	Zinc Dissolved
		CAS	7440-28-0		7440-62-2		7440-66-6	
		Screening Level	0.062		140		81	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-40	10'-25'	12/18/2009	—	—	—	—	—	25 U
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

(micrograms per liter)

Table B-16C - Metals in Groundwater

	Sample Location	Sample Depth	Sample Date	Thallium Total	Thallium Dissolved	Vanadium Total	Vanadium Dissolved	Zinc Total	Zinc Dissolved
				(micrograms per liter)					
			CAS	7440-28-0		7440-62-2		7440-66-6	
			Screening Level	0.062		140		81	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
	MW-31		08/16/2017	—	—	—	—	2.14 J	2.85 J
	MW-31		02/06/2018	—	—	—	—	4 U	4 U
	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-16C - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Thallium Total	Thallium Dissolved	Vanadium Total	Vanadium Dissolved	Zinc Total	Zinc Dissolved
			(micrograms per liter)					
		CAS	7440-28-0		7440-62-2		7440-66-6	
		Screening Level	0.062		140		81	
		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

Table B-16C - Metals in Groundwater

	Sample Location	Sample Depth	Sample Date	Thallium Total	Thallium Dissolved	Vanadium Total	Vanadium Dissolved	Zinc Total	Zinc Dissolved
				(micrograms per liter)					
			CAS	7440-28-0		7440-62-2		7440-66-6	
			Screening Level	0.062		140		81	
			Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
	PL2-JF03A	8'-22.75'	10/24/2001	0.2 U	0.2 U	3 U	3 U	6 U	6 U
	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

Table B-16C - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Thallium		Vanadium		Zinc	
		(micrograms per liter)						
		CAS	7440-28-0		7440-62-2		7440-66-6	
		Screening Level	0.062		140		81	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
MW-50		08/16/2017	—	—	—	—	0.952 J	1.04 J
MW-50		02/14/2018	—	—	—	—	0.82 U	4 U
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

Table B-16C - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Thallium Total	Thallium Dissolved	Vanadium Total	Vanadium Dissolved	Zinc Total	Zinc Dissolved
			(micrograms per liter)					
		CAS	7440-28-0		7440-62-2		7440-66-6	
		Screening Level	0.062		140		81	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
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
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

Table B-16C - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Thallium Total	Thallium Dissolved	Vanadium Total	Vanadium Dissolved	Zinc Total	Zinc Dissolved
		(micrograms per liter)						
		CAS	7440-28-0		7440-62-2		7440-66-6	
		Screening Level	0.062		140		81	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
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
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

Table B-16C - Metals in Groundwater

Sample Location	Sample Depth	Sample Date	Thallium Total	Thallium Dissolved	Vanadium Total	Vanadium Dissolved	Zinc Total	Zinc Dissolved
		CAS	7440-28-0		7440-62-2		7440-66-6	
		Screening Level	0.062		140		81	
		Dissolved Status	Total	Dissolved	Total	Dissolved	Total	Dissolved
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
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

(micrograms per liter)

NOTES:
Bold text indicates a detected result.
Orange shading indicates that the detected result is greater than the screening level.
Blue shading indicates that though not detected, the reporting limit is greater than the screening level.
* 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.

Table B-17 - LNAPL Analyses

Units	Analyte	MW-21	MW-27	MW-27	MW-35	MW-35
	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
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-17 - 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	---
Semi-Volatile 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-17 - 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-17 - LNAPL Analyses

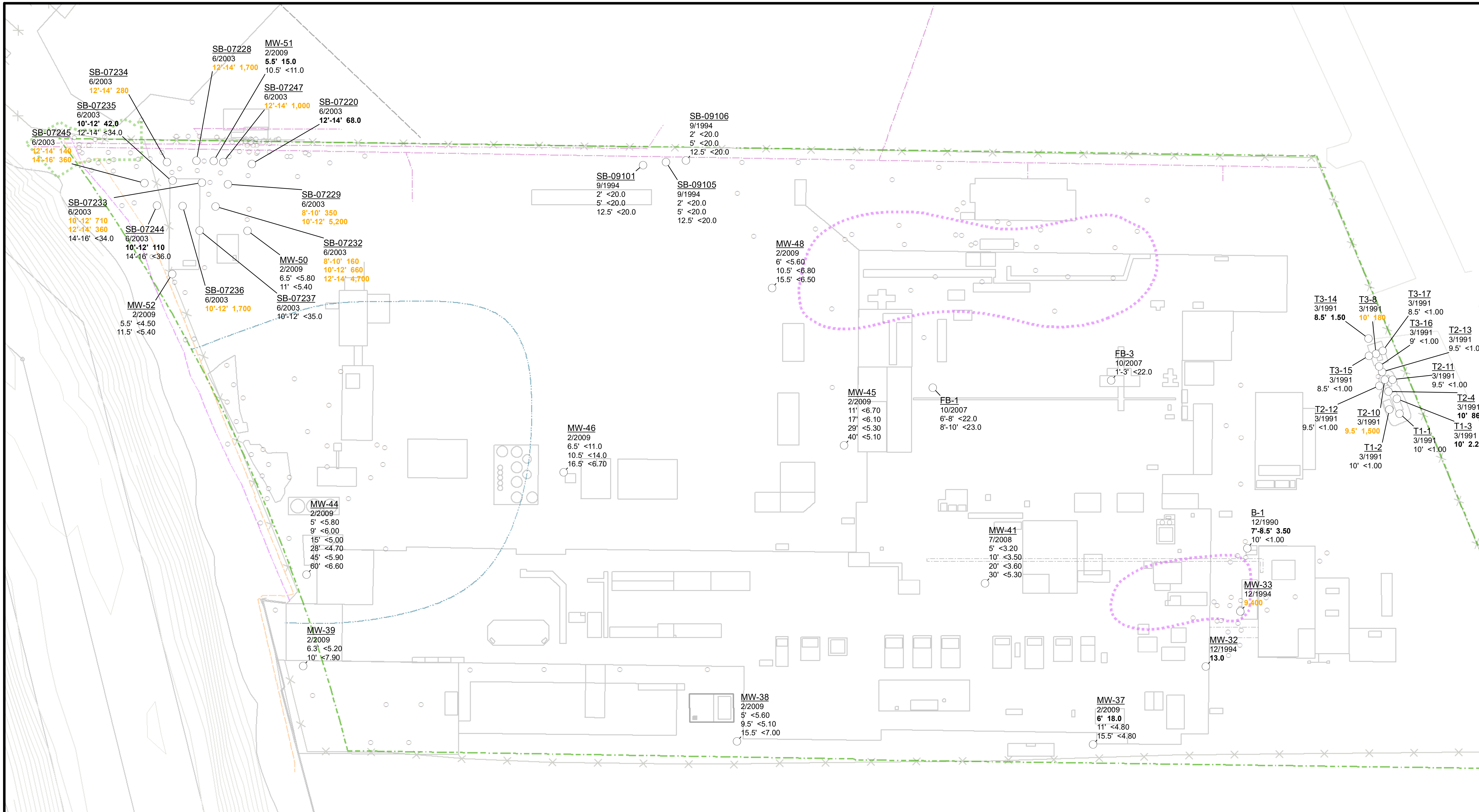
	Sample Location	MW-21	MW-27	MW-27	MW-35	MW-35
	Sample Date	08/18/17	08/18/17	02/05/18	08/21/17	02/05/18
	Fluoranthene	---	<200	---	700	---
	Fluorene	---	<200	---	560	---
	Hexachlorobenzene	---	<500	---	<500	---
	Hexachlorobutadiene	---	<500	---	<500	---
	Hexachlorocylopentadiene	---	<500	---	<500	---
	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



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for gasoline-range petroleum hydrocarbons is 120 mg/kg.

Jorgensen Forge Facility, 8531 East Marginal Way S
Seattle, Washington

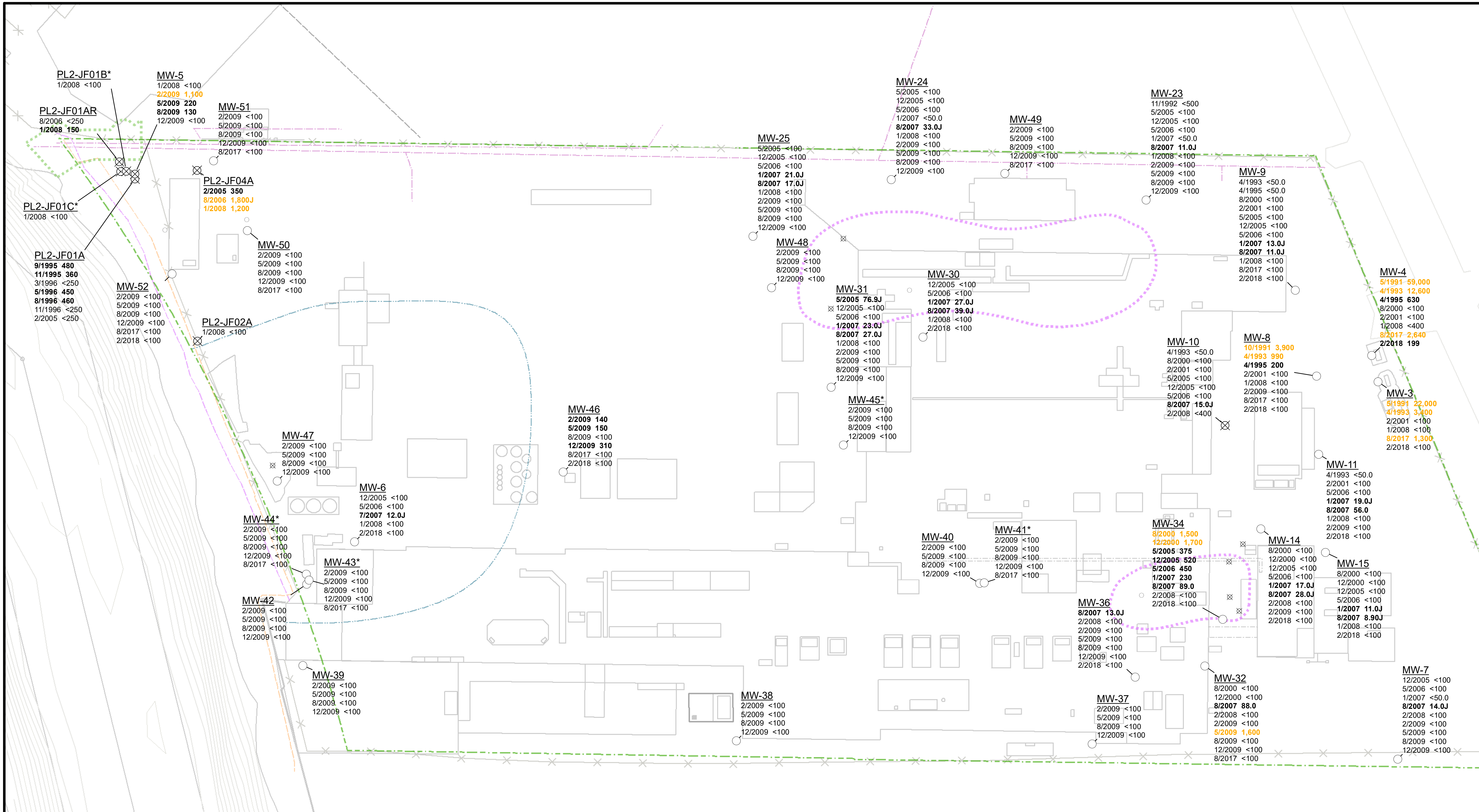
GASOLINE-RANGE PETROLEUM HYDROCARBONS IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-1A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



LEGEND

Sample Location * = *Deep Aquifer*

Sample Location - Decommissioned or Inaccessible

Sample Location w/ Analytical Result

Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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

Approximate Area LNAPL Plume

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 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 800 µg/L.

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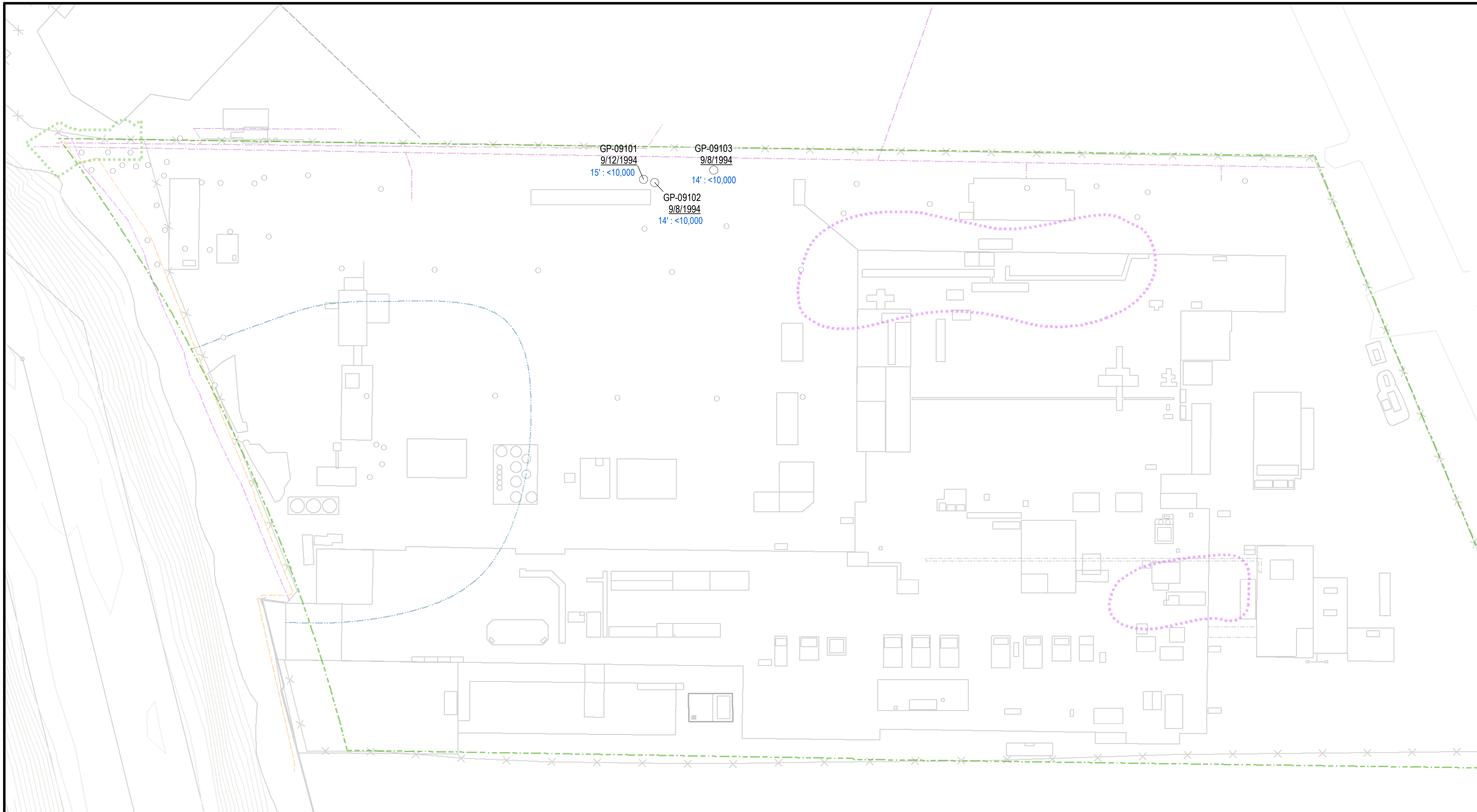
Seattle, Washington

GASOLINE-RANGE PETROLEUM HYDROCARBONS IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-1B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S

0 100
Feet

LEGEND

○ Sample Location

○ Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for gasoline-range petroleum hydrocarbons is 800 µg/L.

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Seattle, Washington

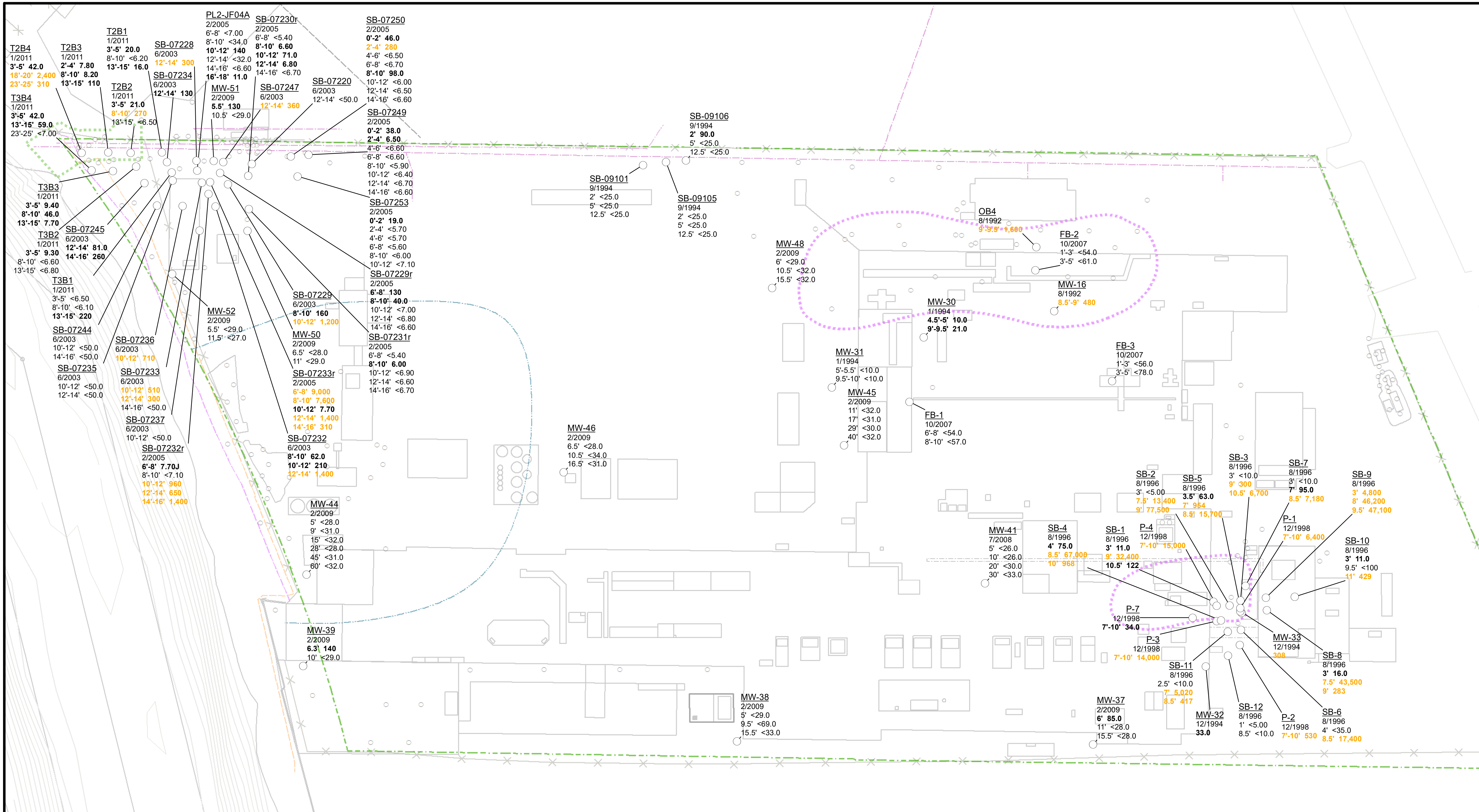
GASOLINE-RANGE PETROLEUM HYDROCARBONS IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-1C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for diesel-range petroleum hydrocarbons is 260 mg/kg.

Jorgensen Forge Facility, 8531 East Marginal Way S
Seattle, Washington

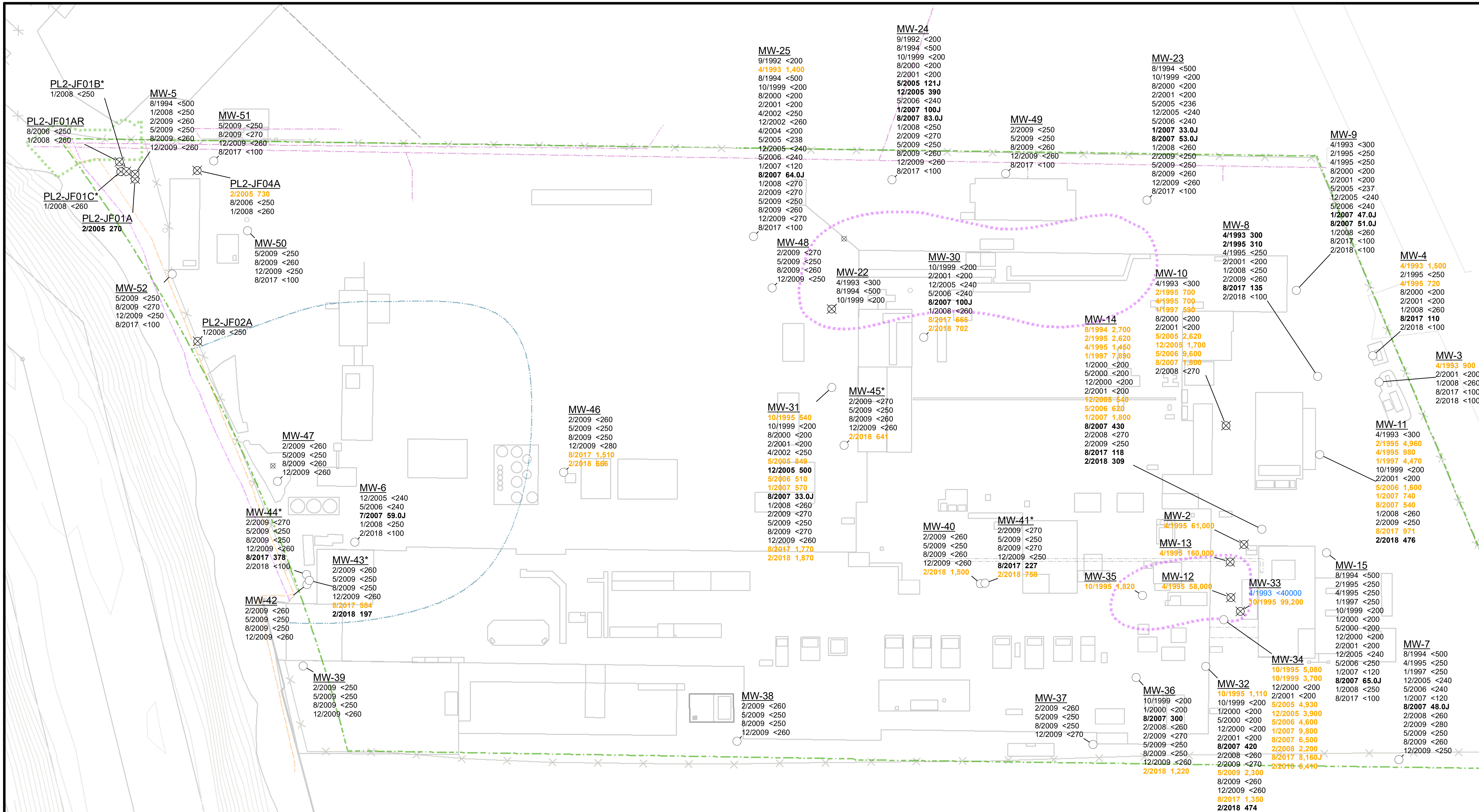
DIESEL-RANGE PETROLEUM HYDROCARBONS IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-2A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W
E
S
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100
Feet

LEGEND

○ Sample Location * = *Deep Aquifer*

⊠ Sample Location - Decommissioned or Inaccessible

◯ Sample Location w/ Analytical Result

⊠ Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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

Approximate Area LNAPL Plume

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 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.

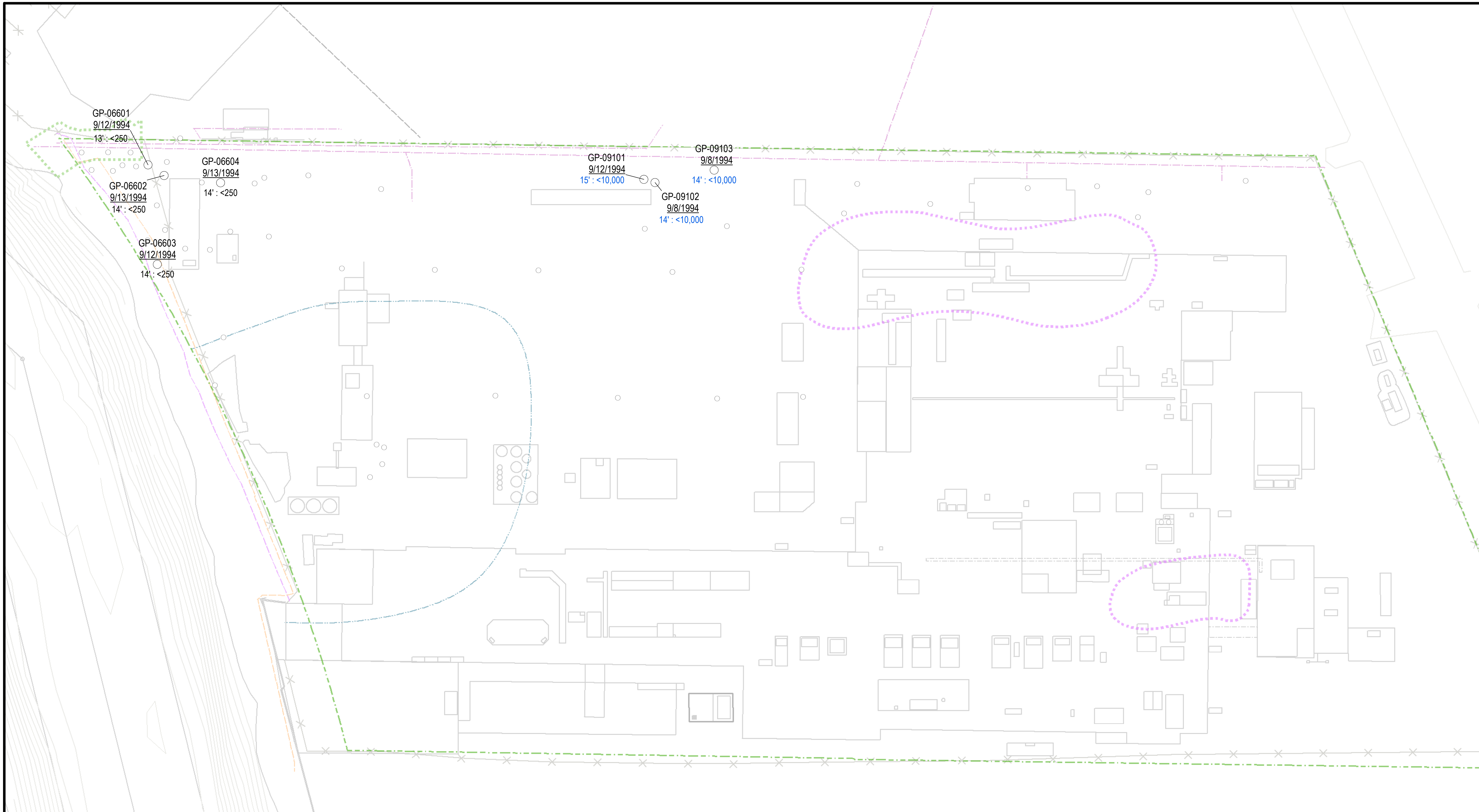
Jorgensen Forge Facility, 8531 East Marginal Way S
Seattle, Washington

DIESEL-RANGE PETROLEUM HYDROCARBONS IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-2B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N W E S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for diesel-range petroleum hydrocarbons is 500 µg/L.

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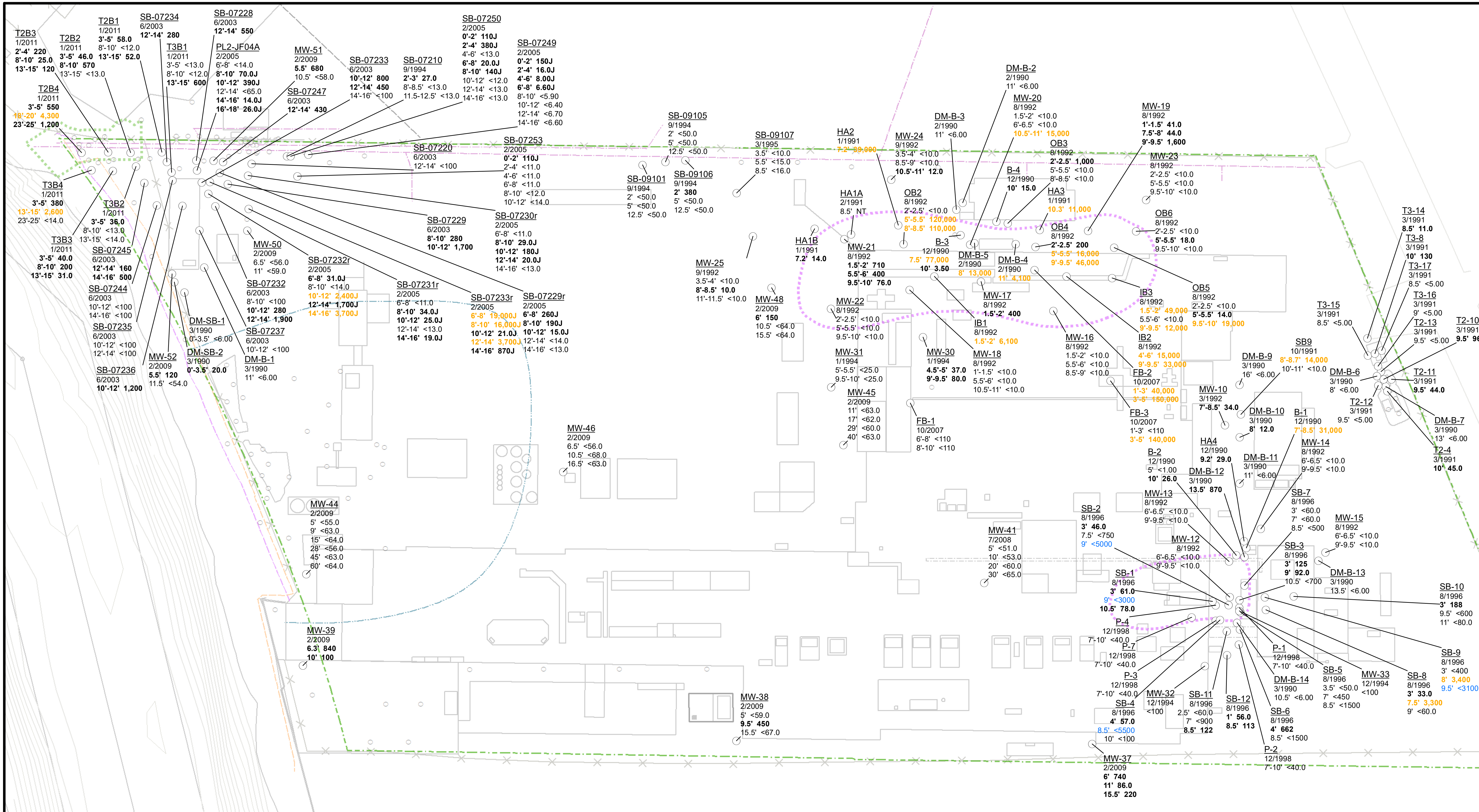
DIESEL-RANGE PETROLEUM HYDROCARBONS IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-2C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 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.

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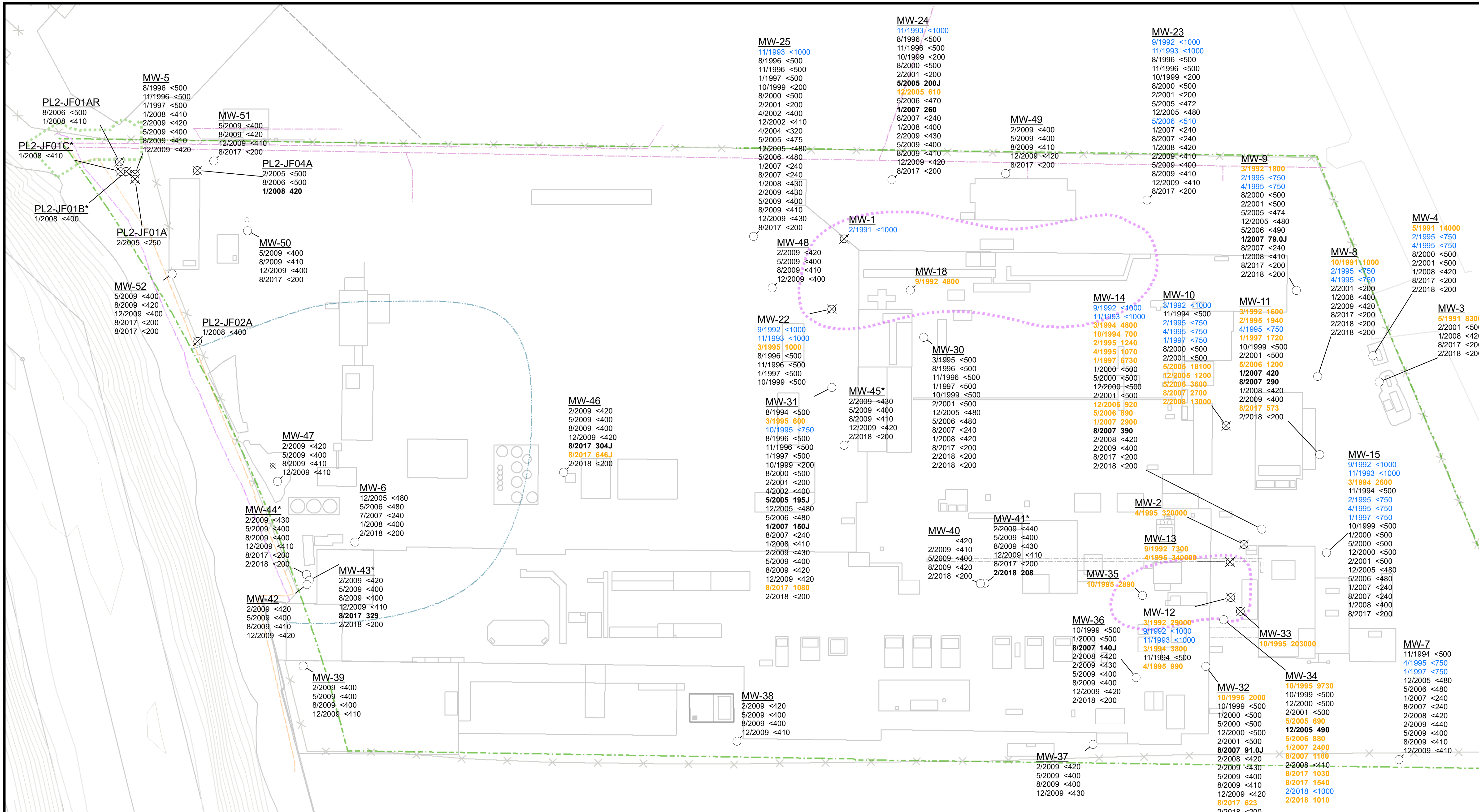
Seattle, Washington

OIL-RANGE PETROLEUM HYDROCARBONS IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | **FIG. B-3A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- ○ Sample Location * = Deep Aquifer
- ⊠ Sample Location - Decommissioned or Inaccessible
- ○ Sample Location w/ Analytical Result
- ⊠ Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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.

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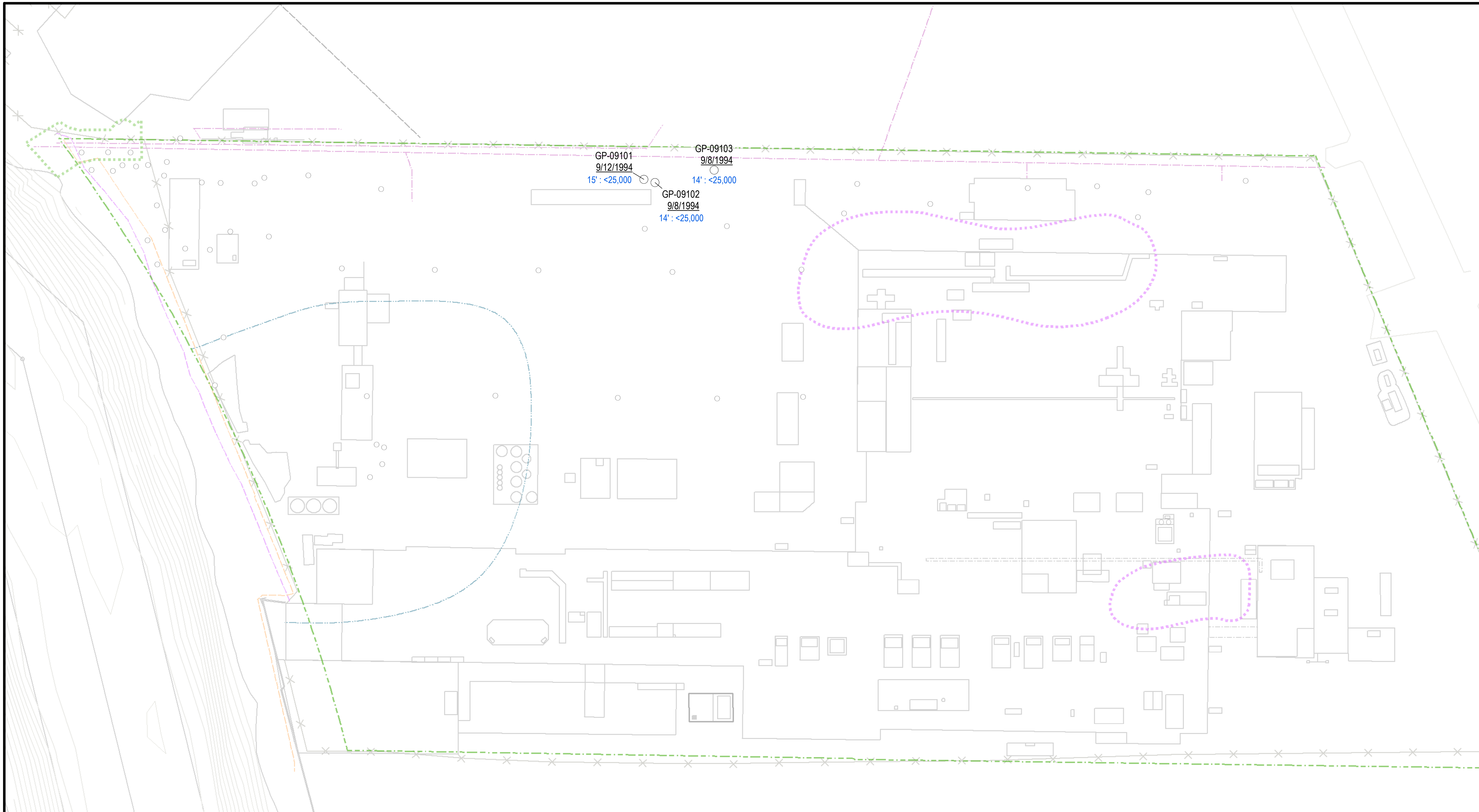
OIL-RANGE PETROLEUM HYDROCARBONS IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-3B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for oil-range petroleum hydrocarbons is 500 µg/L.

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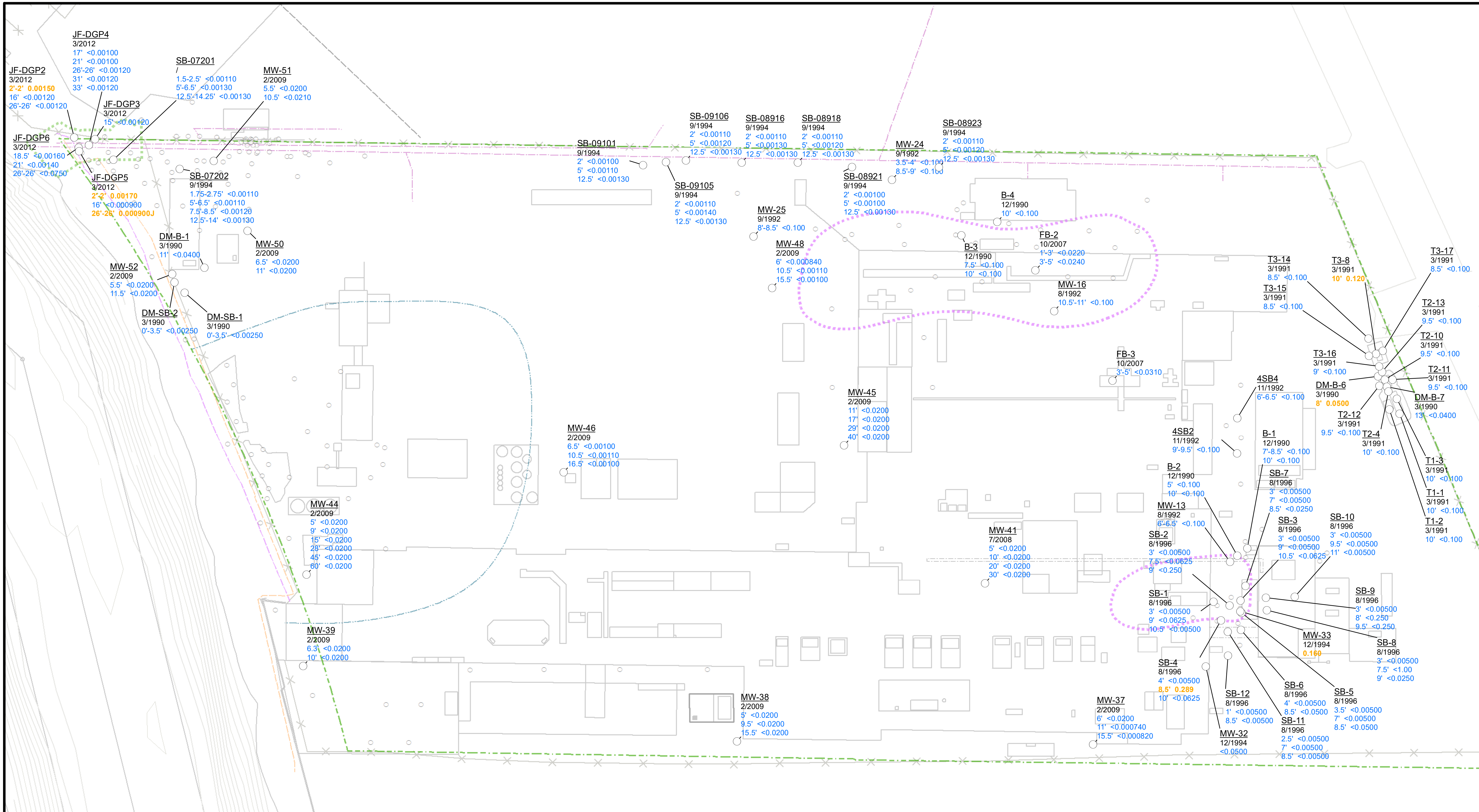
OIL-RANGE PETROLEUM HYDROCARBONS IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-3C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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

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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for benzene is 0.00056 mg/kg.

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Seattle, Washington

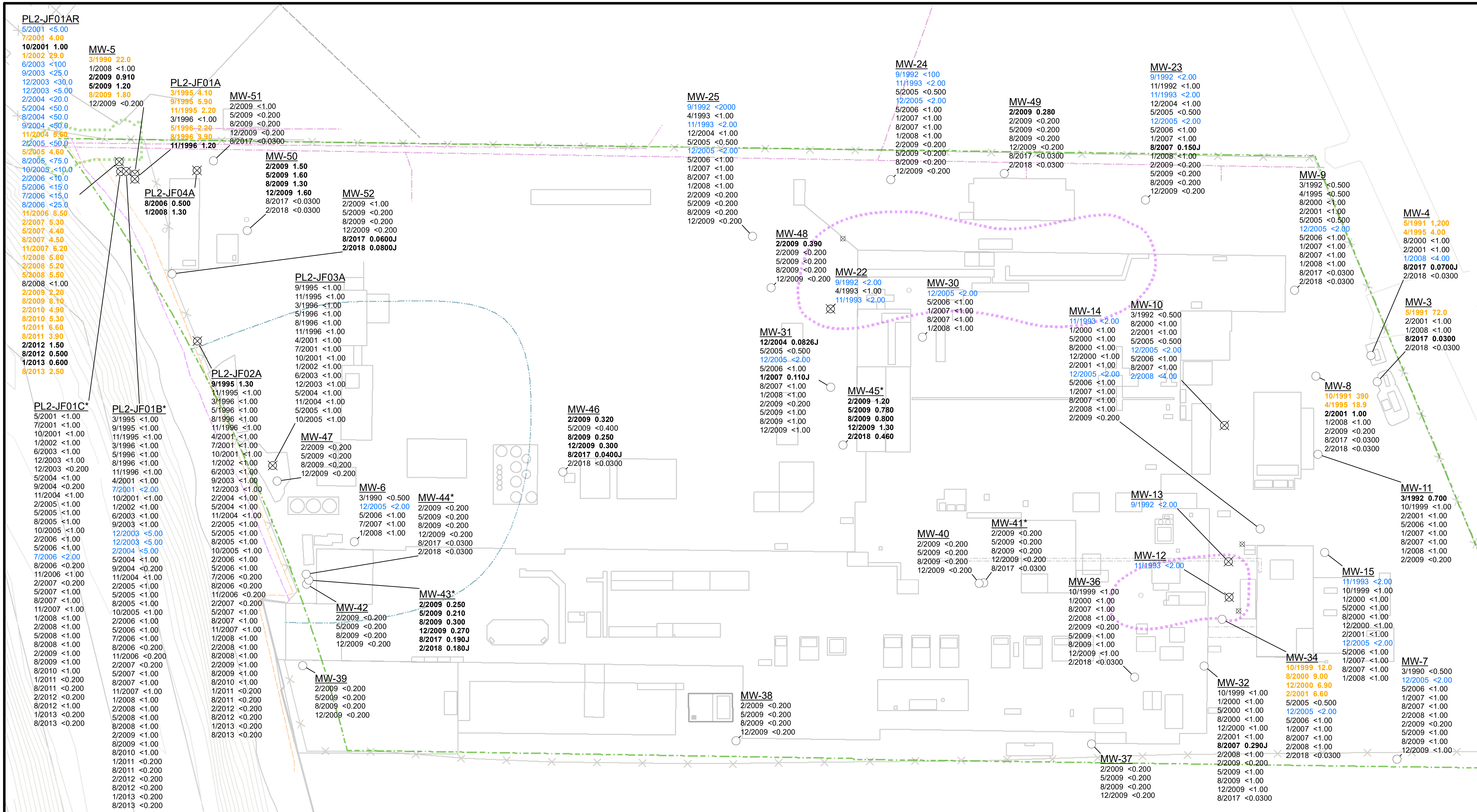
BENZENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-4A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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.

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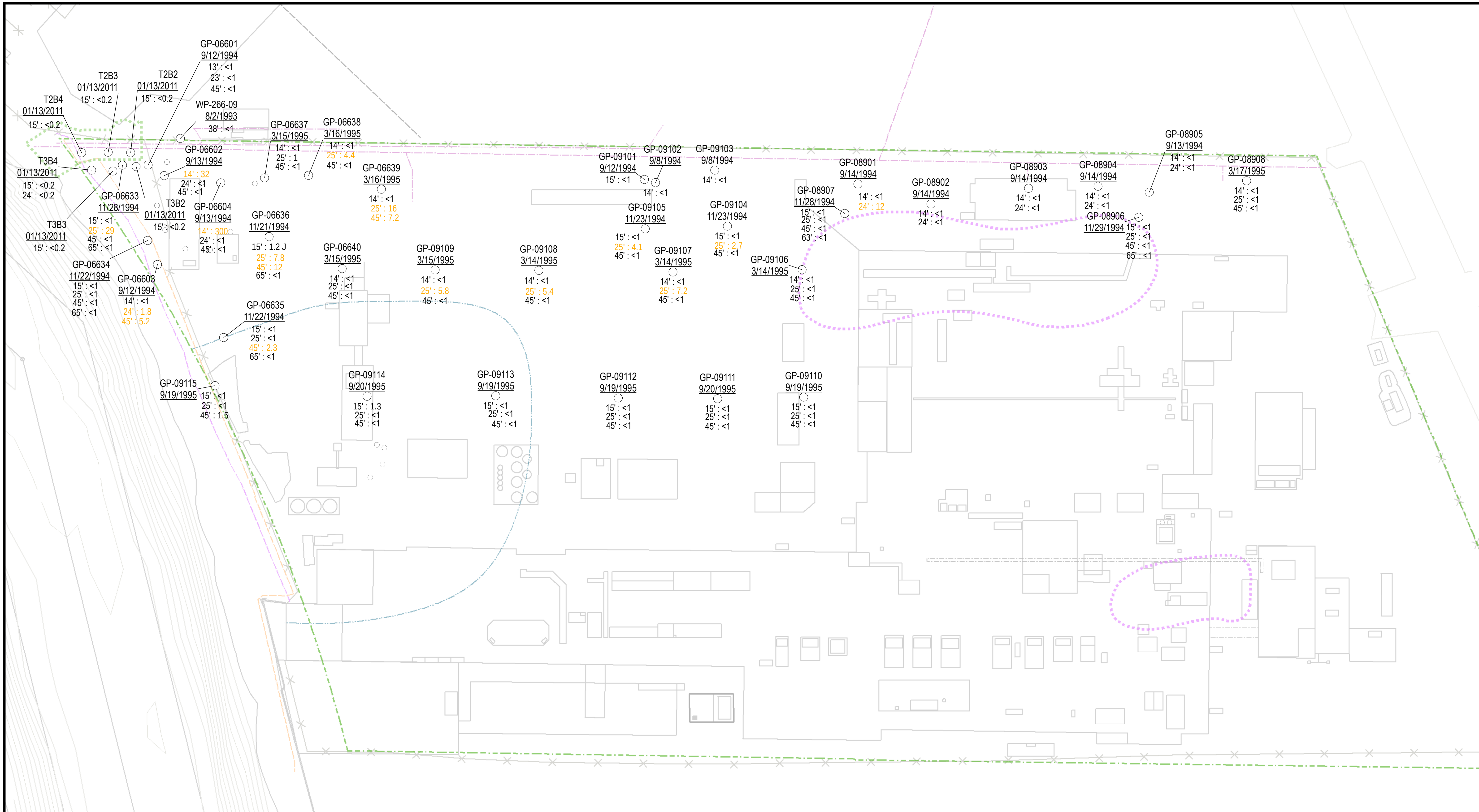
BENZENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-4B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S

0 100

Feet

LEGEND

Sample Location

Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for benzene is 1.6 µg/L.

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BENZENE IN GRAB GROUNDWATER SAMPLES

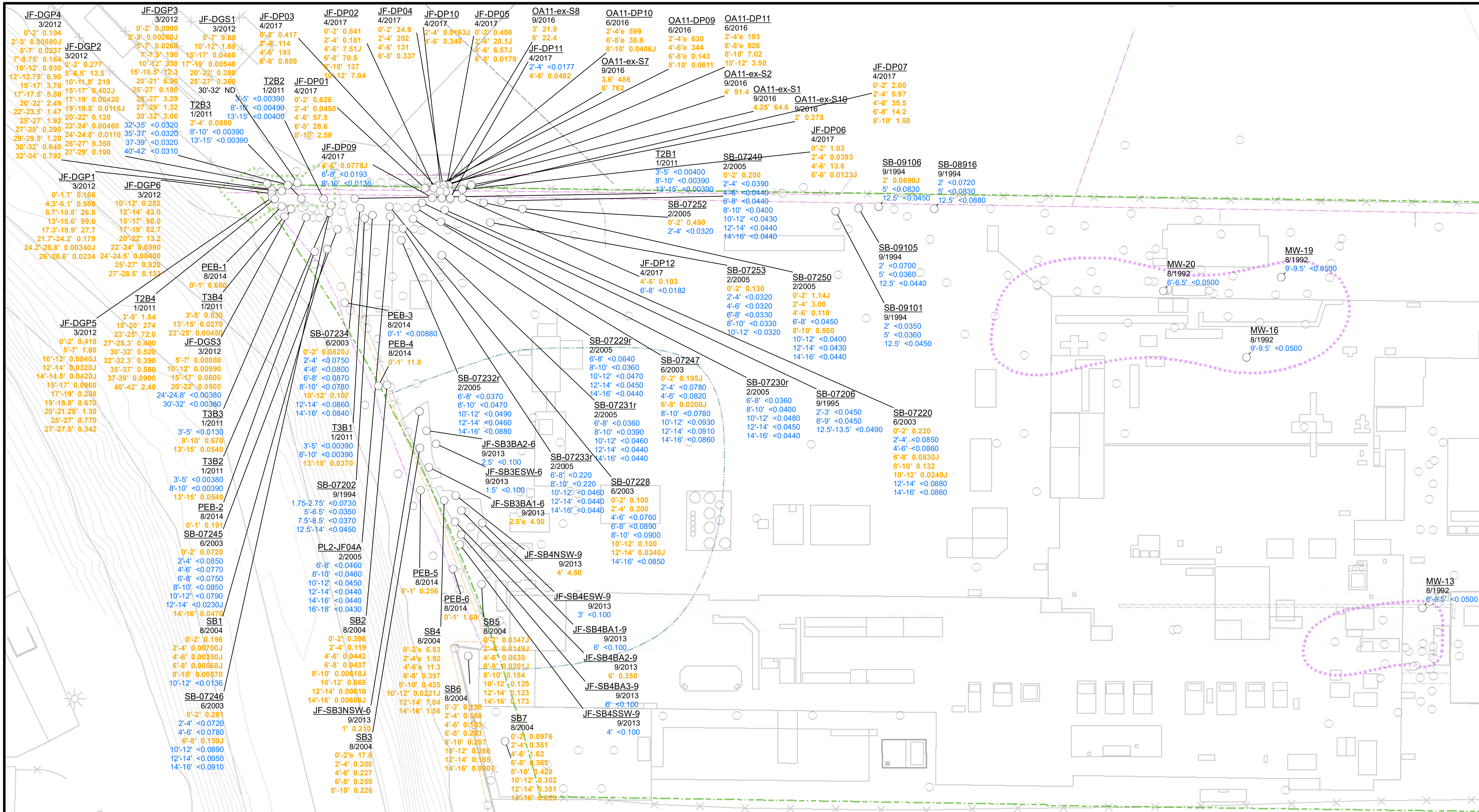
March 2020

21-1-12596-013

SHANNON & WILSON

FIG. B-4C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



N
E
S
W

0 100

Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for total PCB aroclors is 0.0000022 mg/kg.

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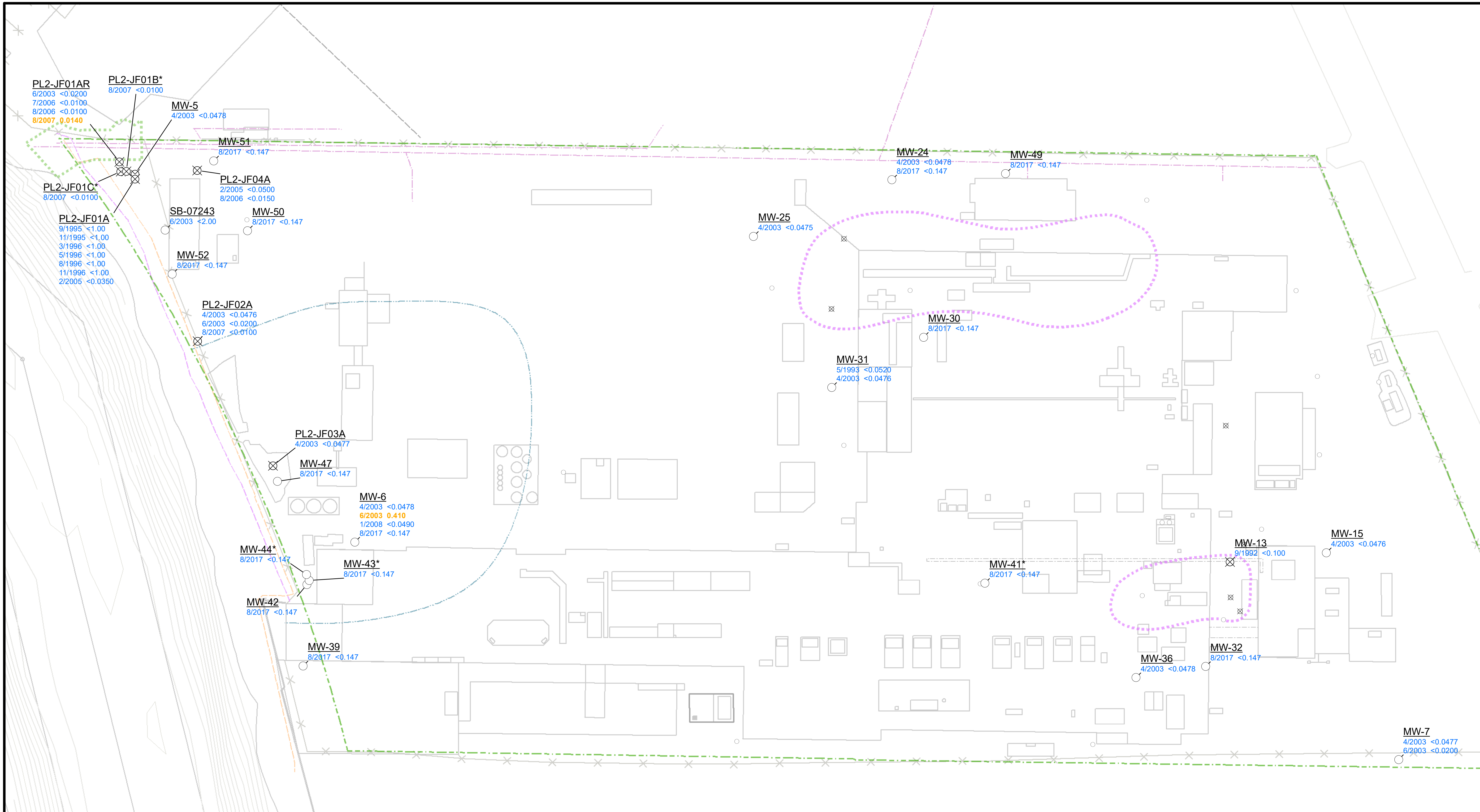
TOTAL PCB AROCLORS IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-5A**

Filename: L:\Users\skh\POC_R3\B-5A.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 total PCB aroclors is 0.000007 µg/L.

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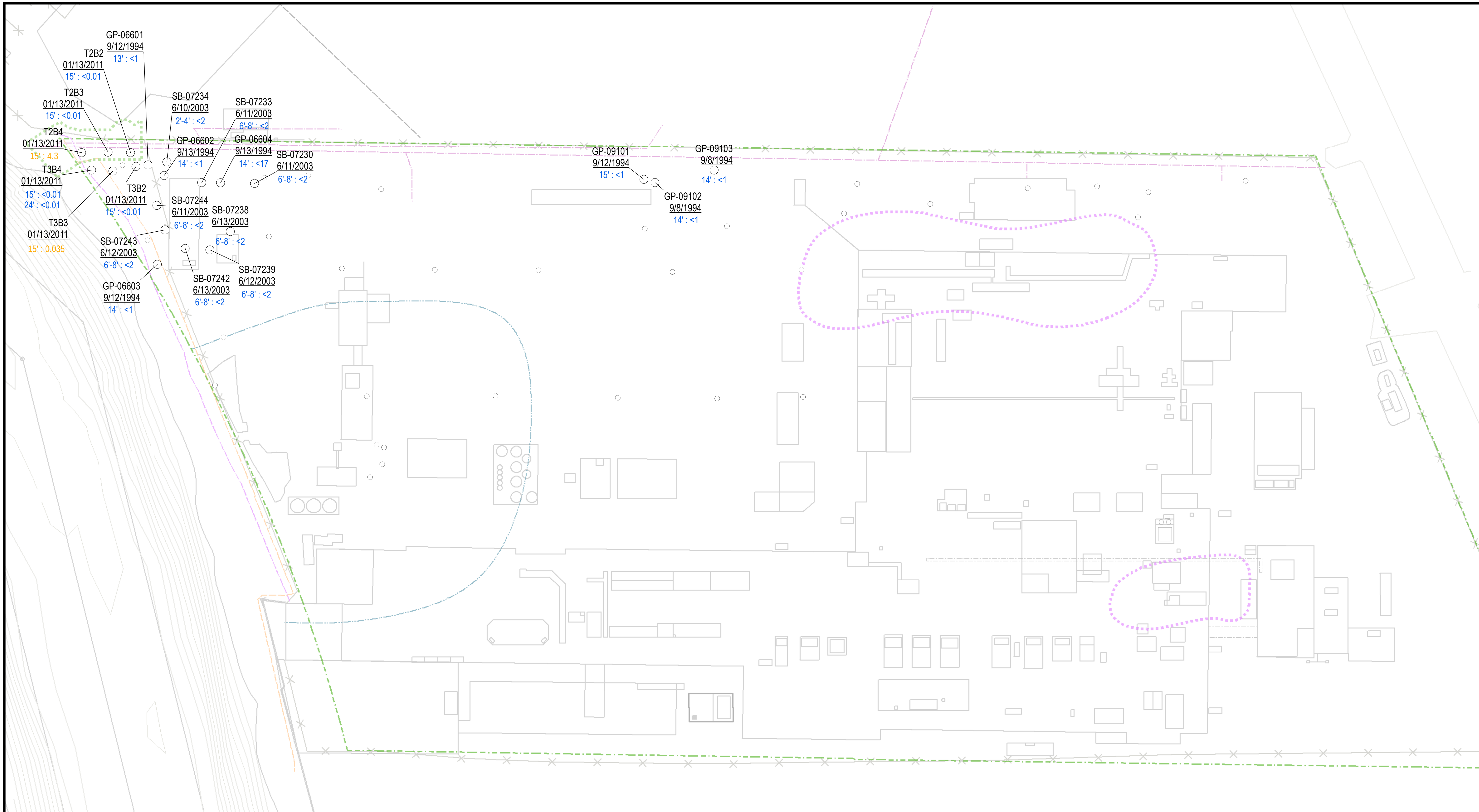
TOTAL PCB AROCLORS IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-5B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N W E S

0 100

Feet

LEGEND

Sample Location

Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for total PCB aroclors is 0.000007 µg/L.

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TOTAL PCB AROCLORS IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

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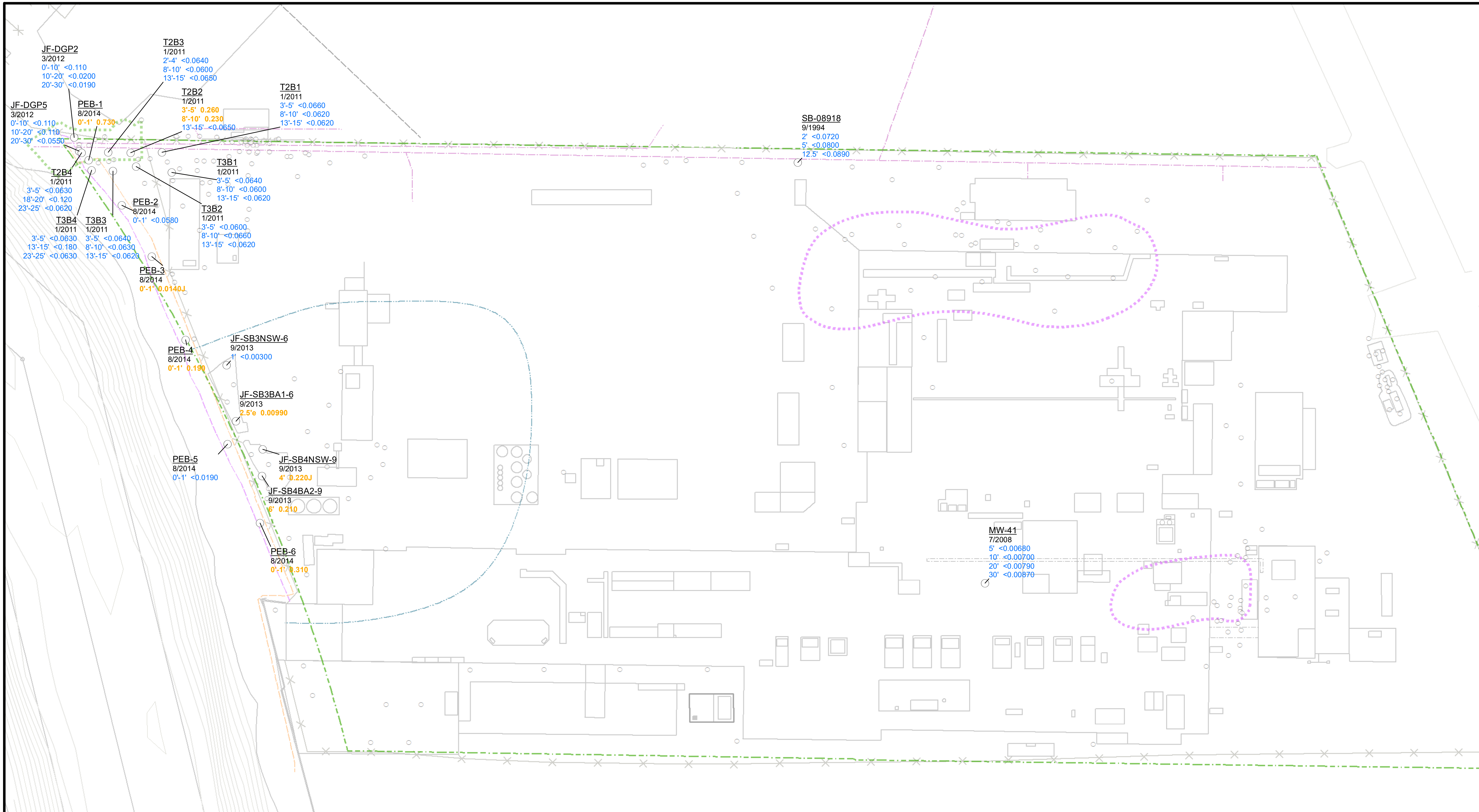
FIG. B-5C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for benzo(a)anthracene is 0.000057 mg/kg.

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BENZO(A)ANTHRACENE IN SOIL

March 2020 21-1-12596-013

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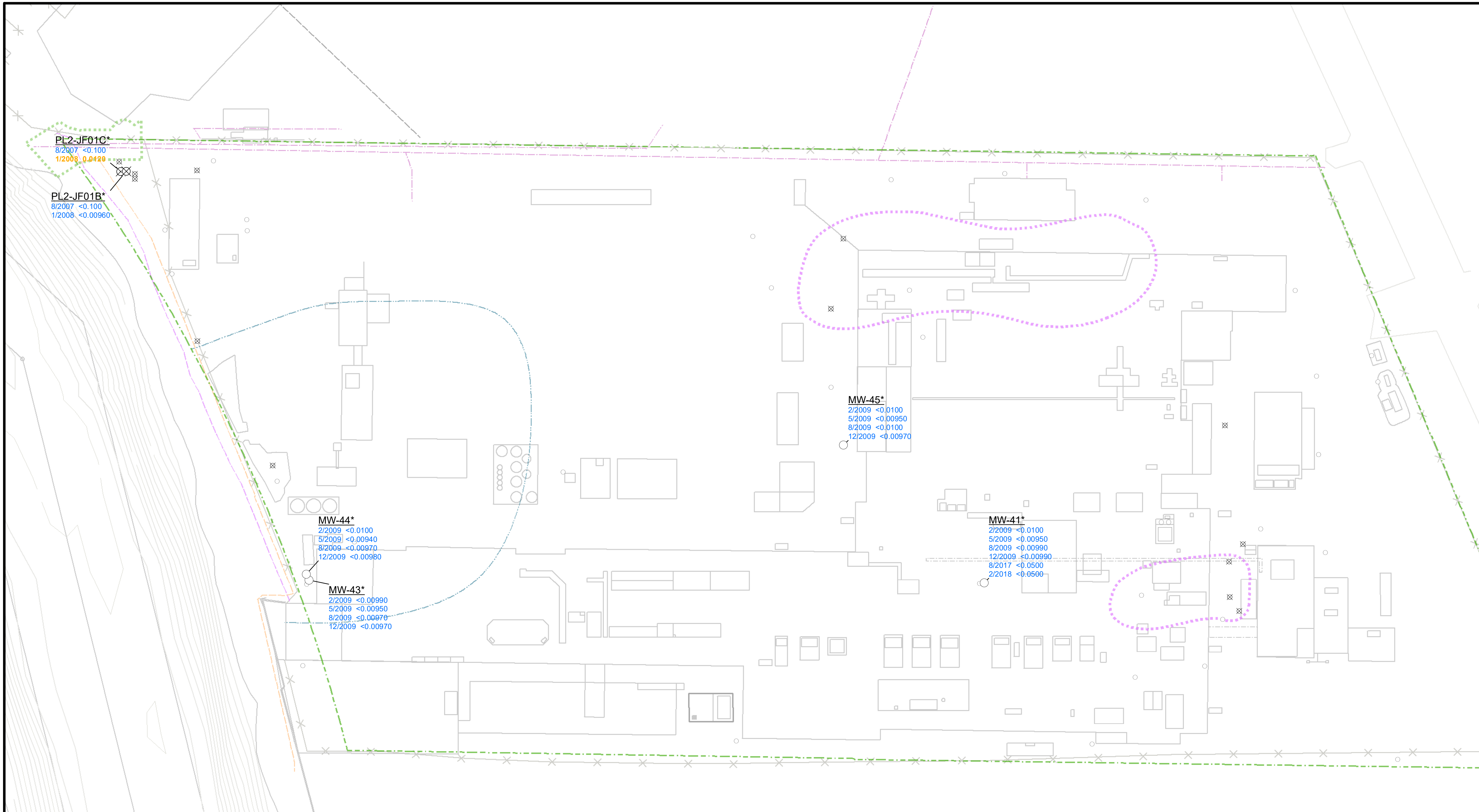
FIG. B-6A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location * = *Deep Aquifer*

Sample Location - Decommissioned or Inaccessible

Sample Location w/ Analytical Result

Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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

Approximate Area LNAPL Plume

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 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 benzo(a)anthracene is 0.00016 µg/L.

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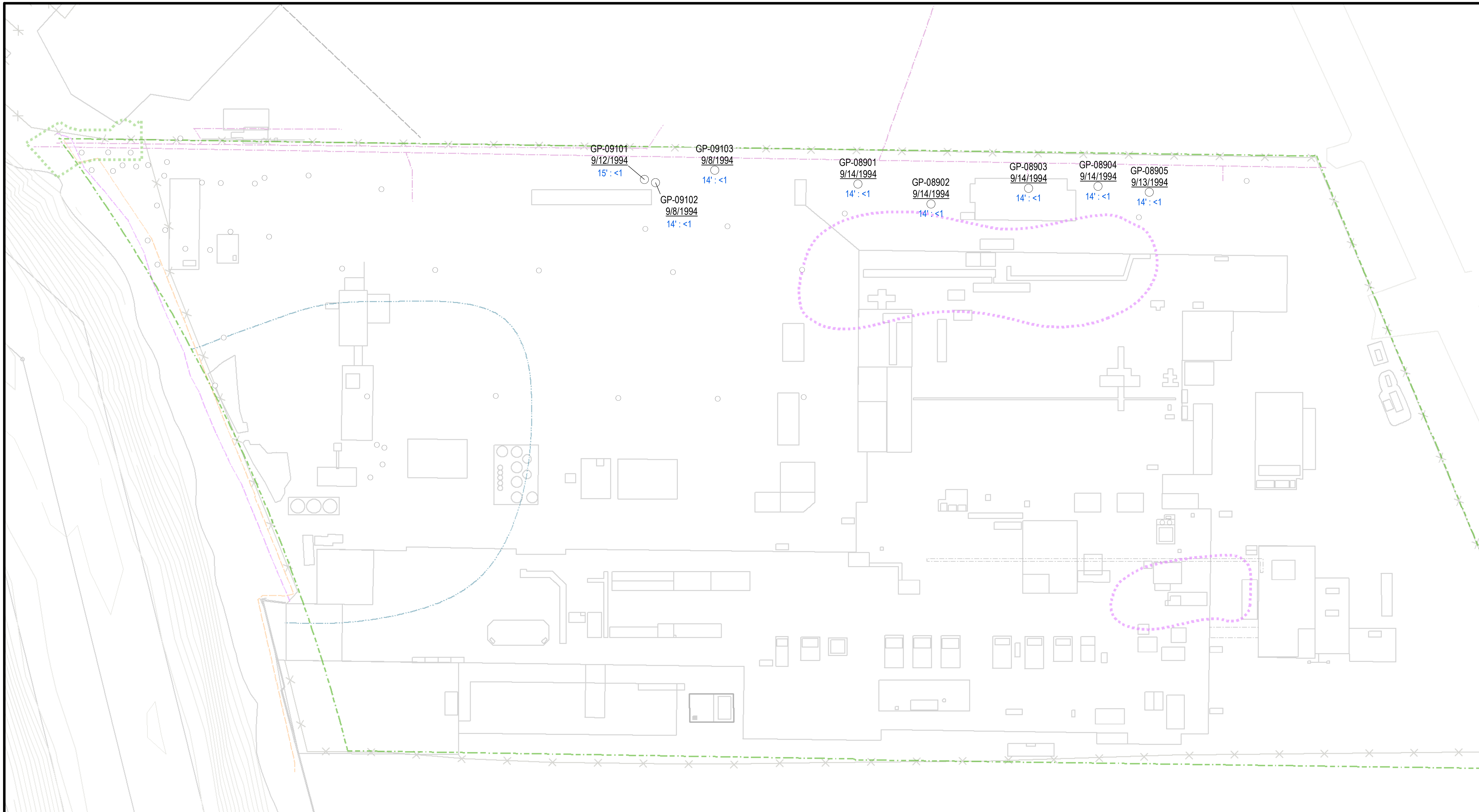
BENZO(A)ANTHRACENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-6B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location

Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for benzo(a)anthracene is 0.00016 µg/L.

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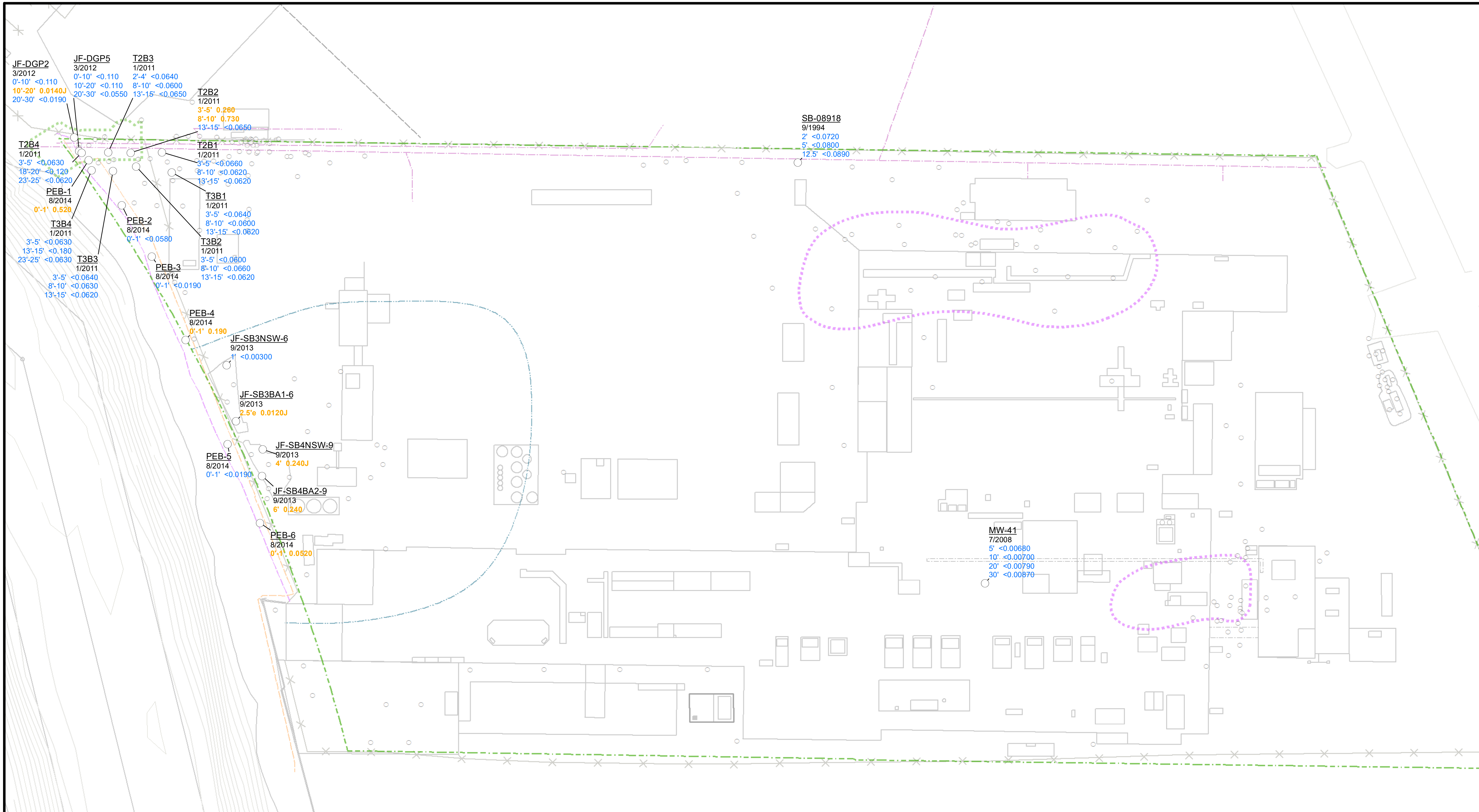
BENZO(A)ANTHRACENE IN GRAB GROUNDWATER SAMPLES

March 2020

21-1-12596-013

SHANNON & WILSON

FIG. B-6C



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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for benzo(a)pyrene is 0.000016 mg/kg.

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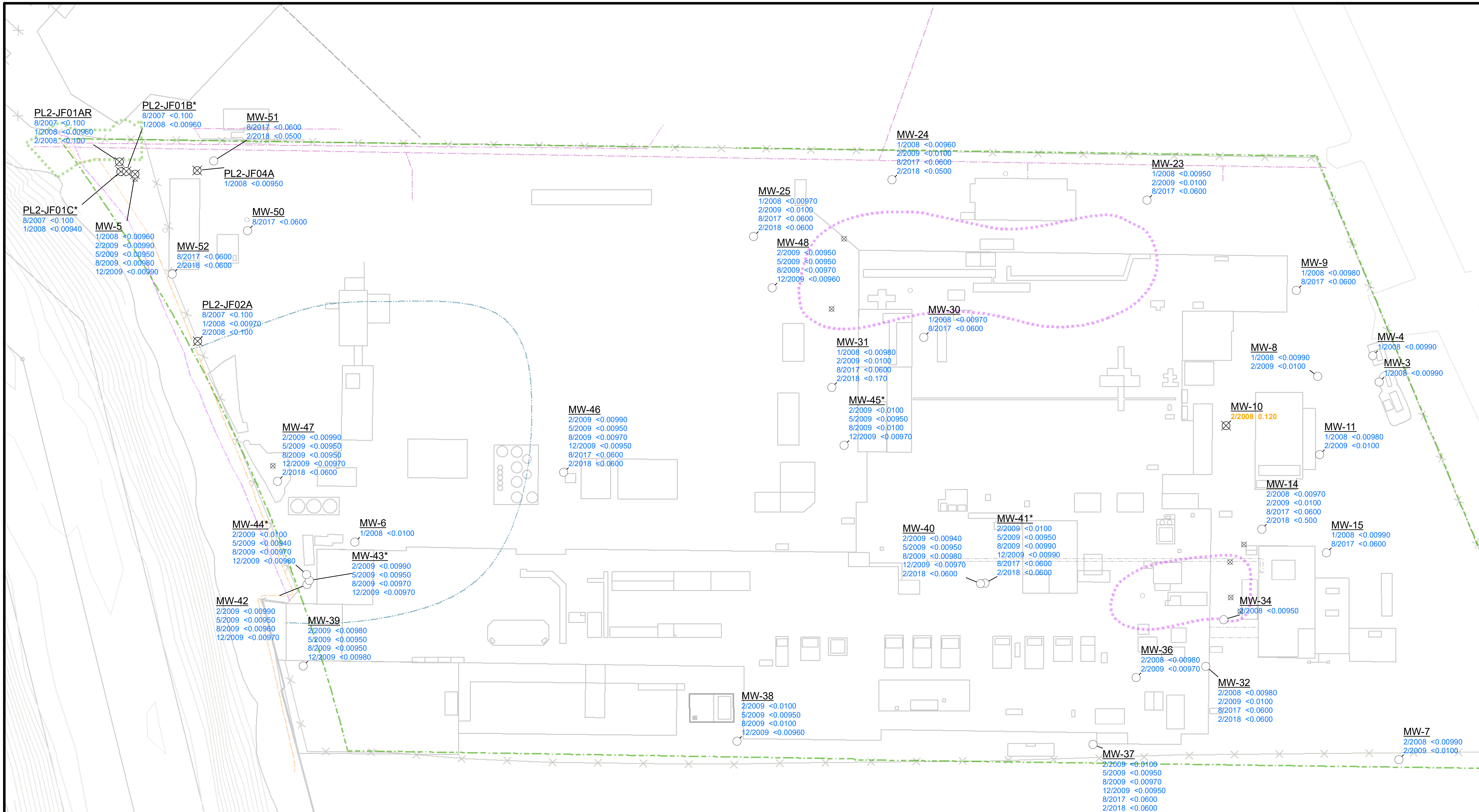
BENZO(A)PYRENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-7A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location * = *Deep Aquifer*

Sample Location - Decommissioned or Inaccessible

Sample Location w/ Analytical Result

Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
Approximate Area LNAPL Plume
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 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 benzo(a)pyrene is 0.000016 µg/L.

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Seattle, Washington

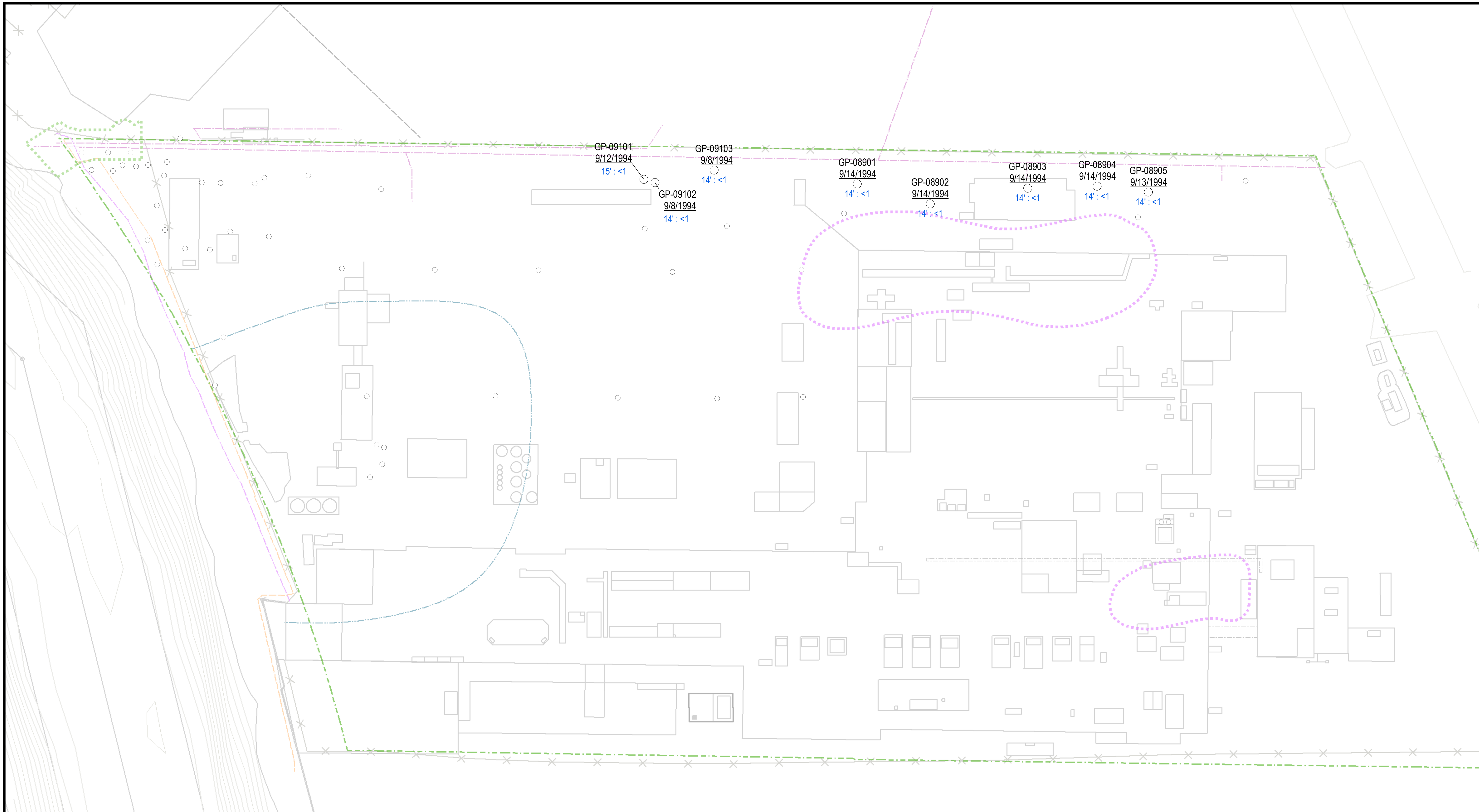
BENZO(A)PYRENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-7B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for benzo(a)pyrene is 0.000016 µg/L.

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Seattle, Washington

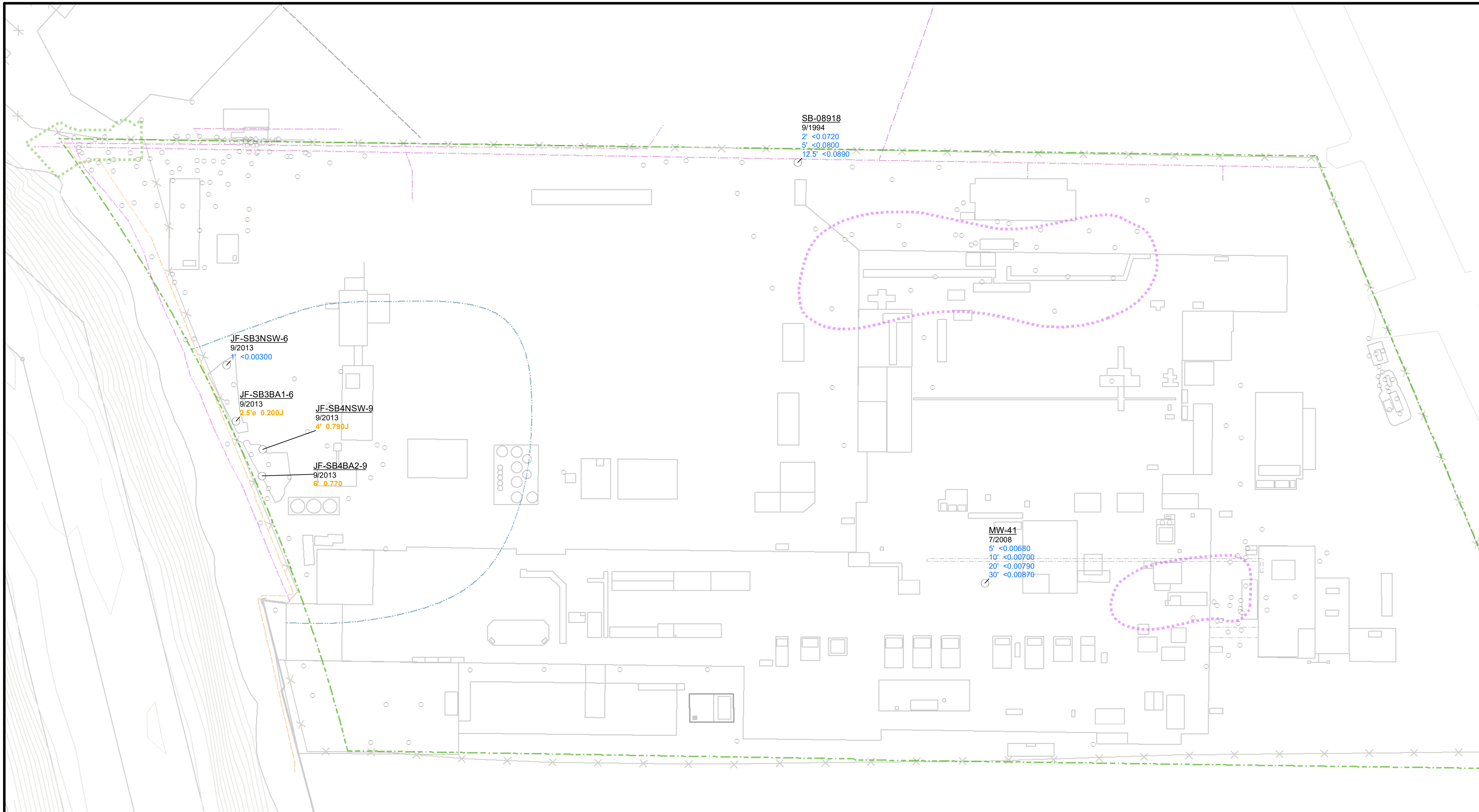
BENZO(A)PYRENE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-7C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for benzo(b)fluoranthene is 0.0002 mg/kg.

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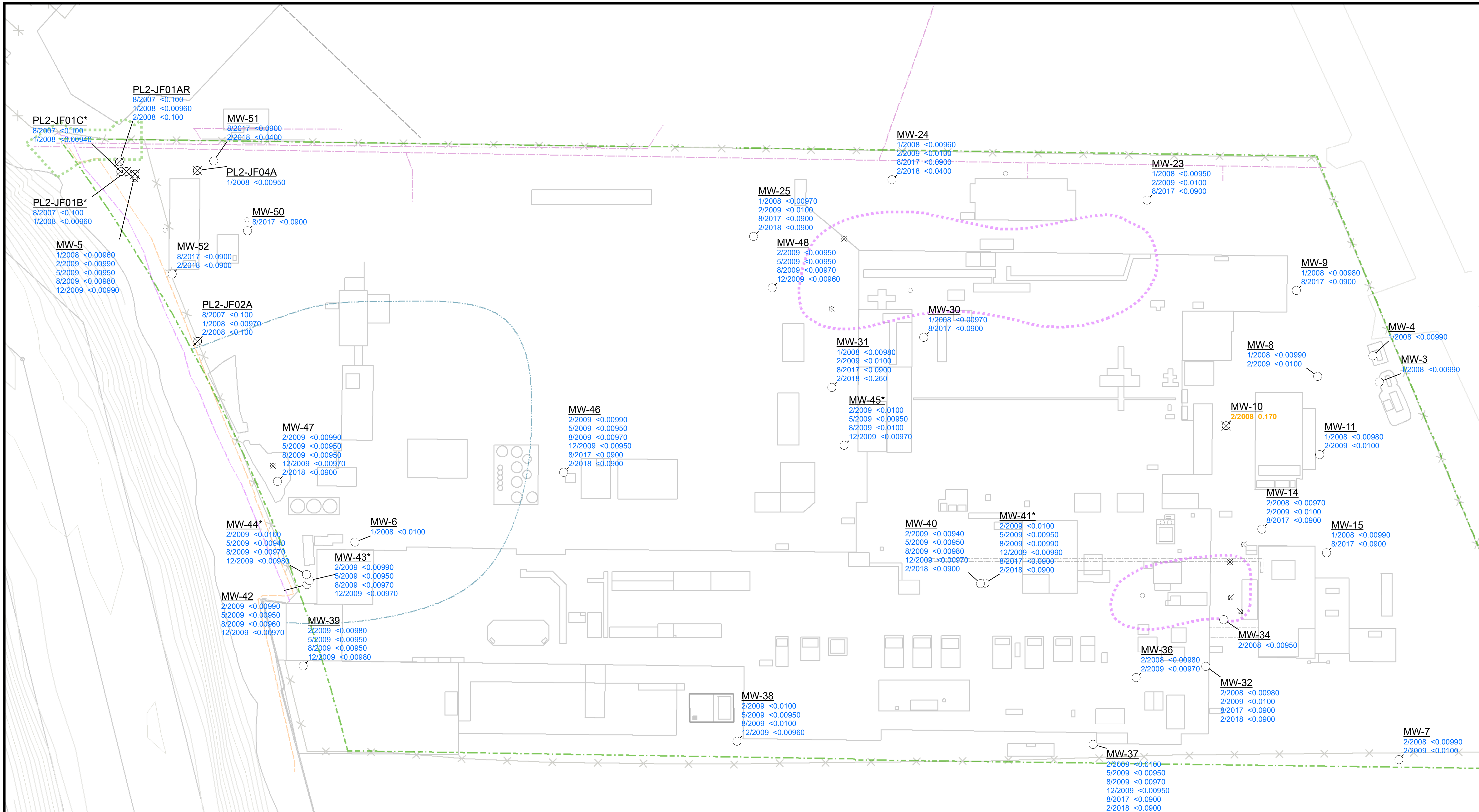
BENZO(B)FLUORANTHENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-8A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 benzo(b)fluoranthene is 0.00016 µg/L.

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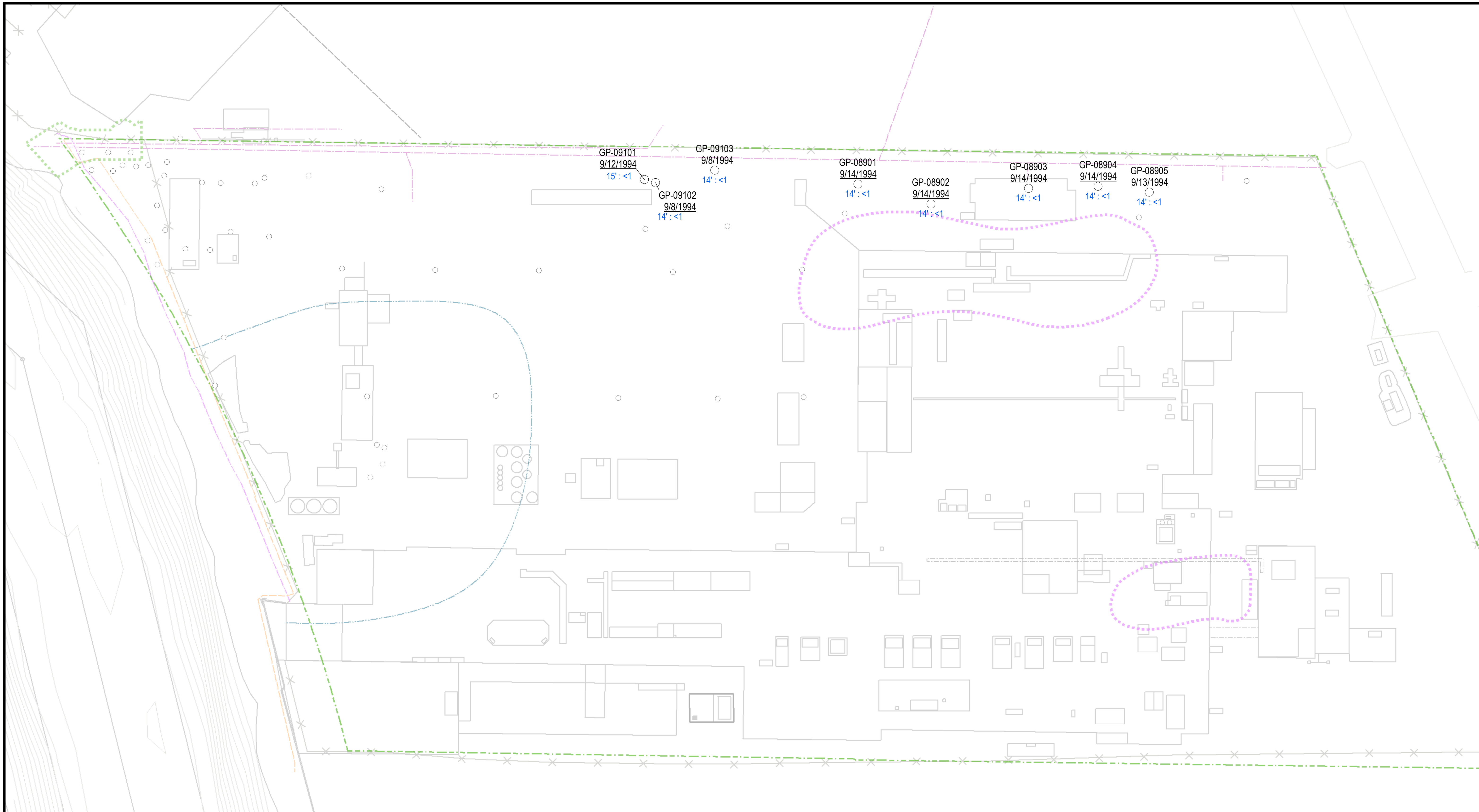
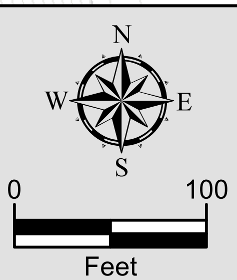
BENZO(B)FLUORANTHENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-8B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL





LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for benzo(b)fluoranthene is 0.00016 µg/L.

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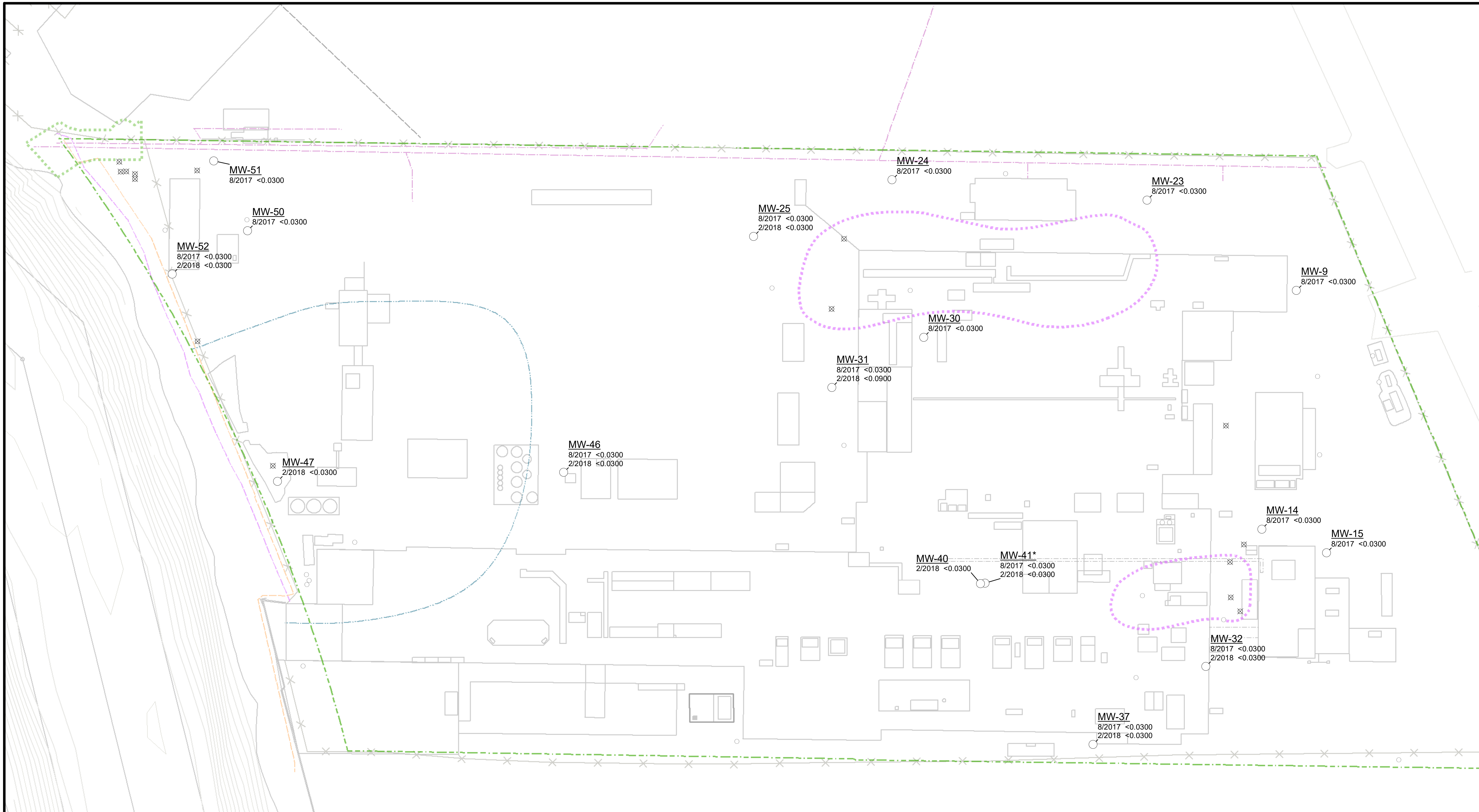
BENZO(B)FLUORANTHENE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-8C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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. No PCUL has been established for benzo(j)fluoranthene.

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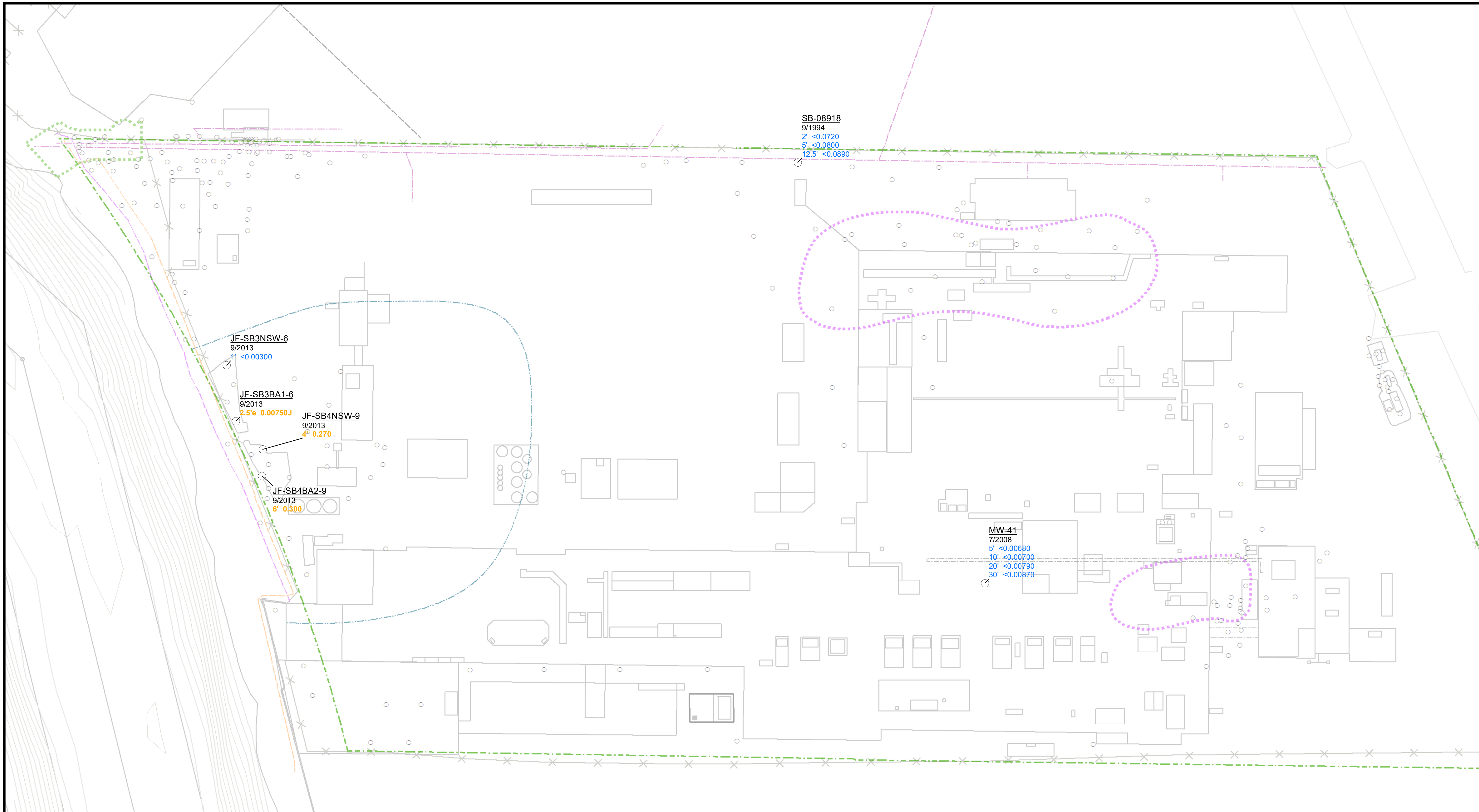
BENZO(J)FLUORANTHENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-9B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for benzo(k)fluoranthene is 0.002 mg/kg.

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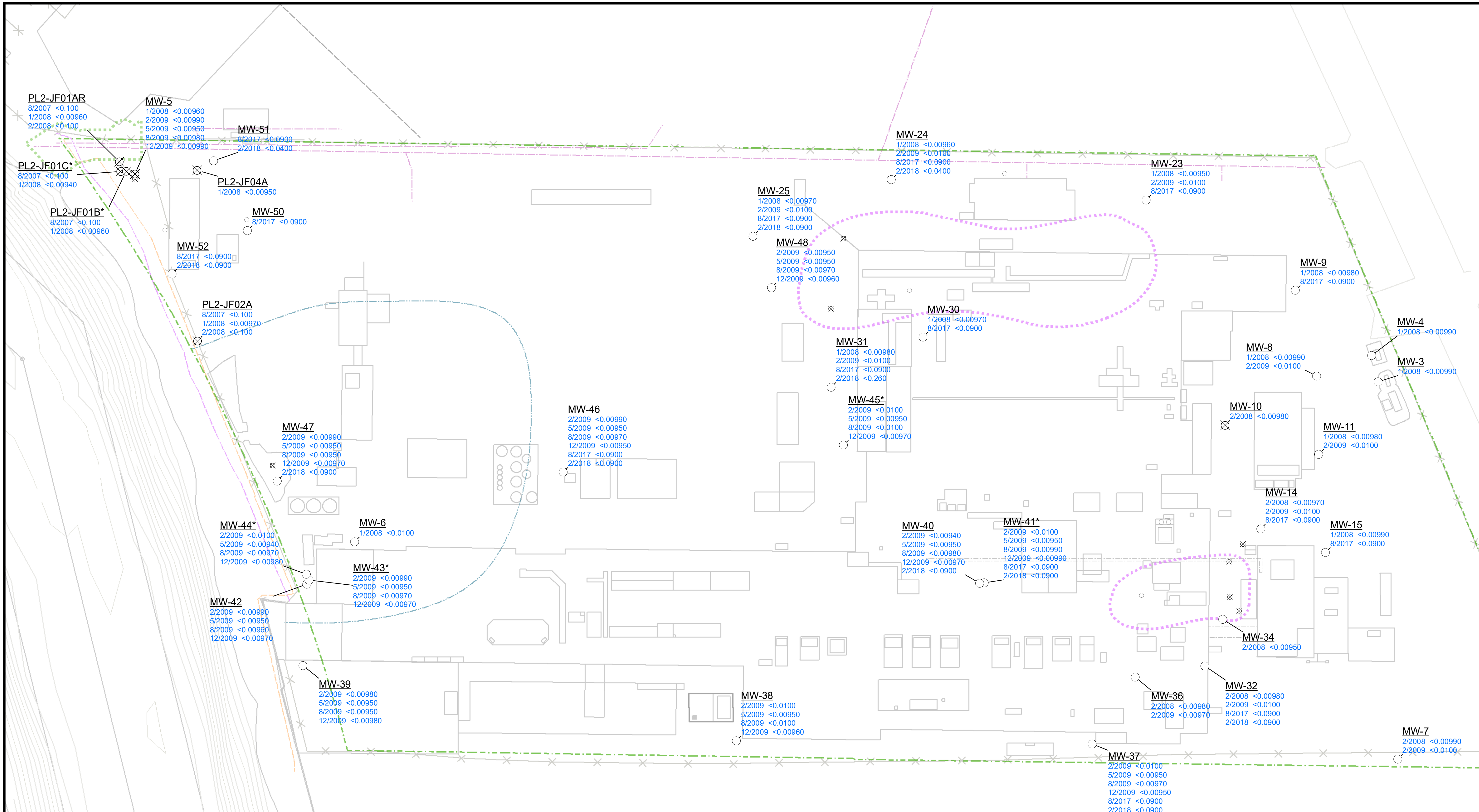
BENZO(K)FLUORANTHENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-10A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location * = *Deep Aquifer*

Sample Location - Decommissioned or Inaccessible

Sample Location w/ Analytical Result

Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
Approximate Area LNAPL Plume
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 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 benzo(k)fluoranthene is 0.0016 µg/L.

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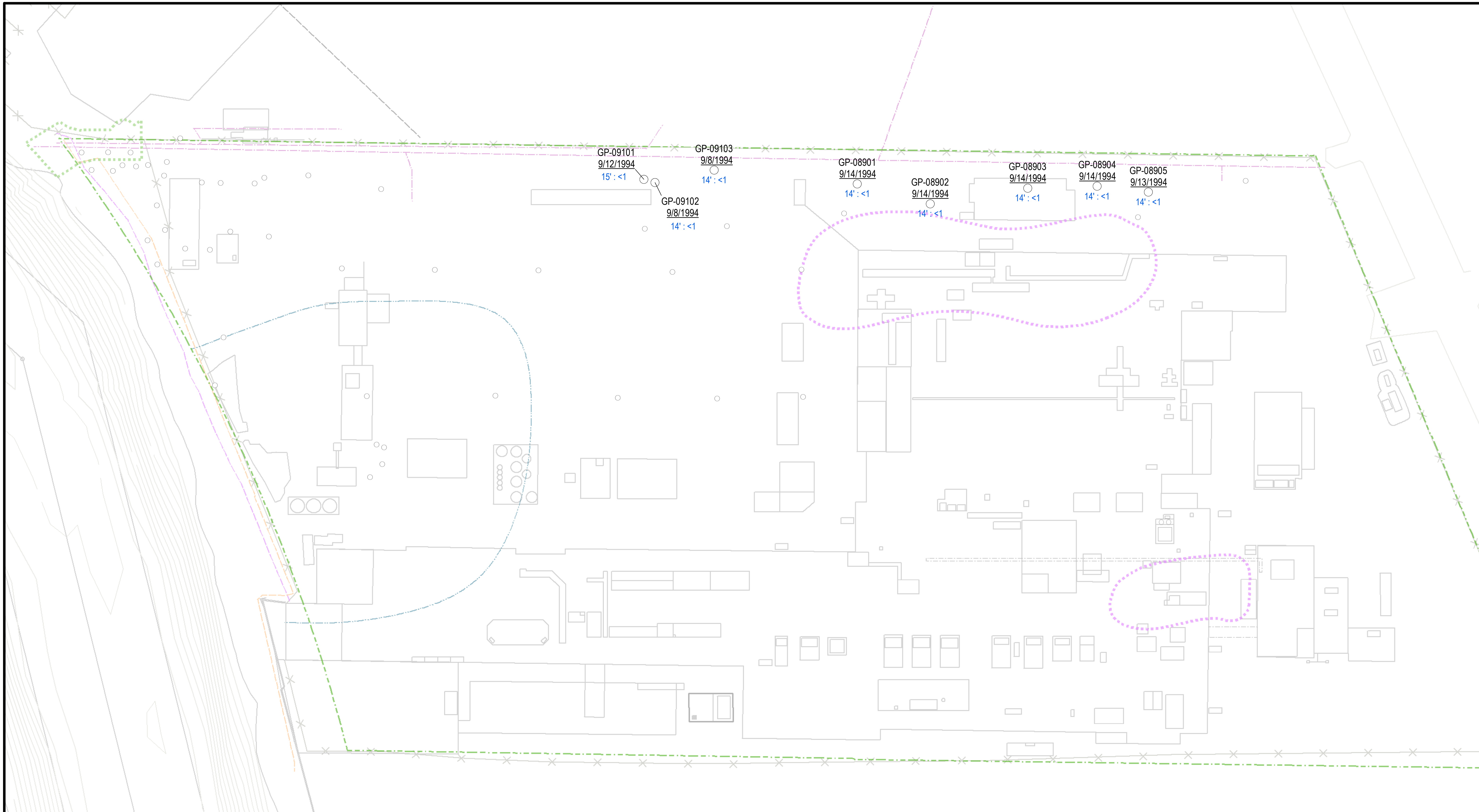
BENZO(K)FLUORANTHENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-10B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for benzo(k)fluoranthene is 0.0016 µg/L.

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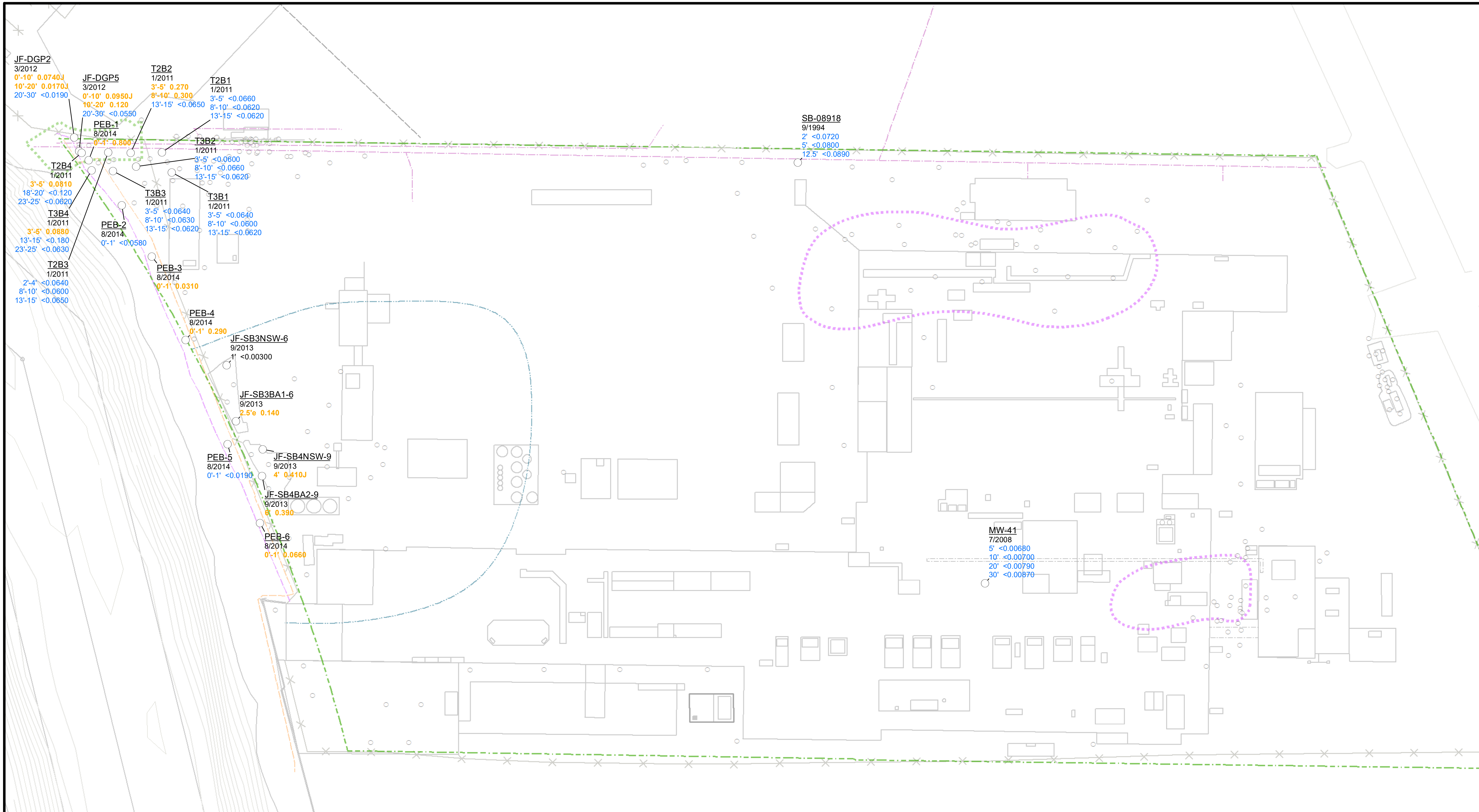
BENZO(K)FLUORANTHENE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-10C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for chrysene is 0.0064 mg/kg.

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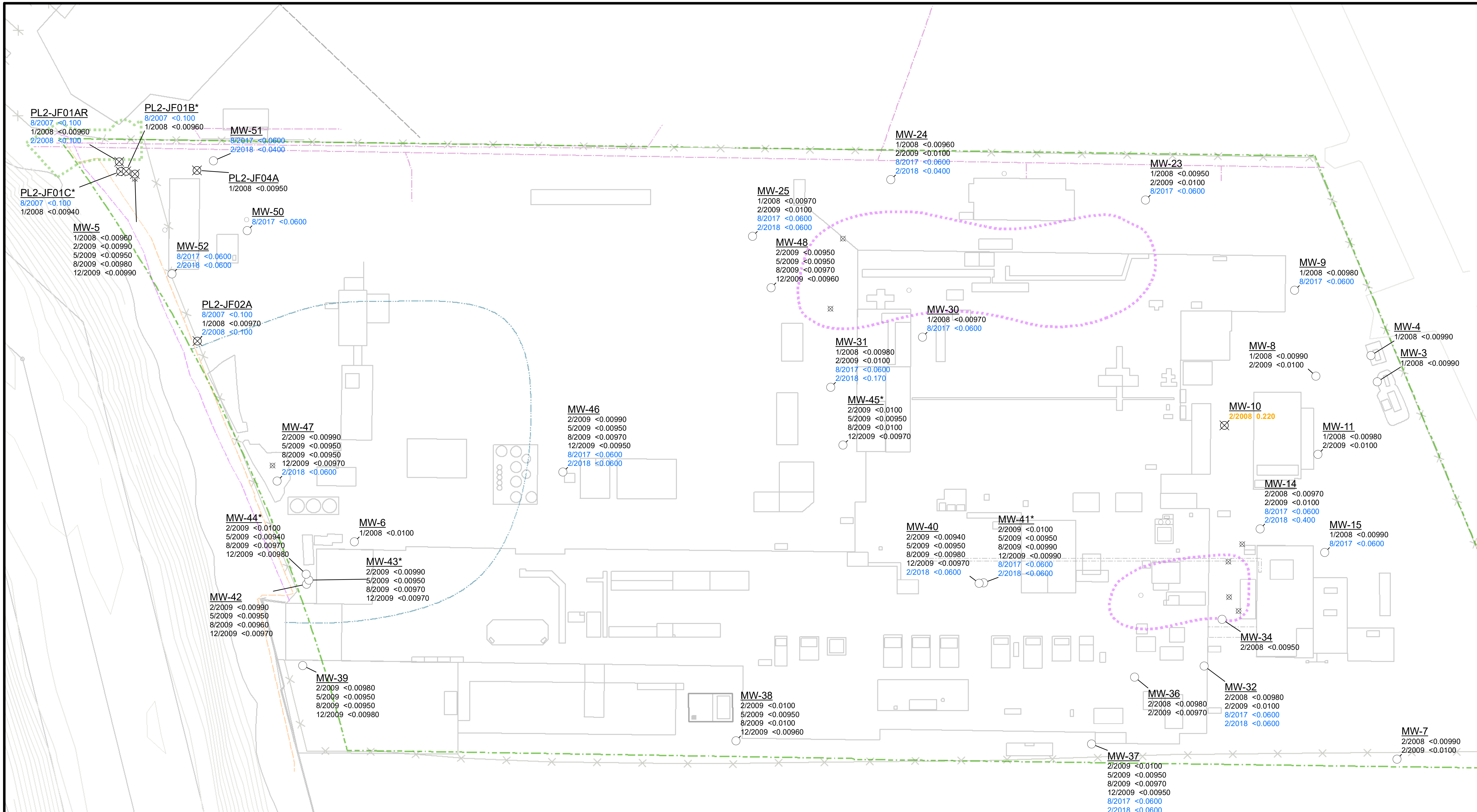
CHRYSENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-11A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 chrysene is 0.016 µg/L.

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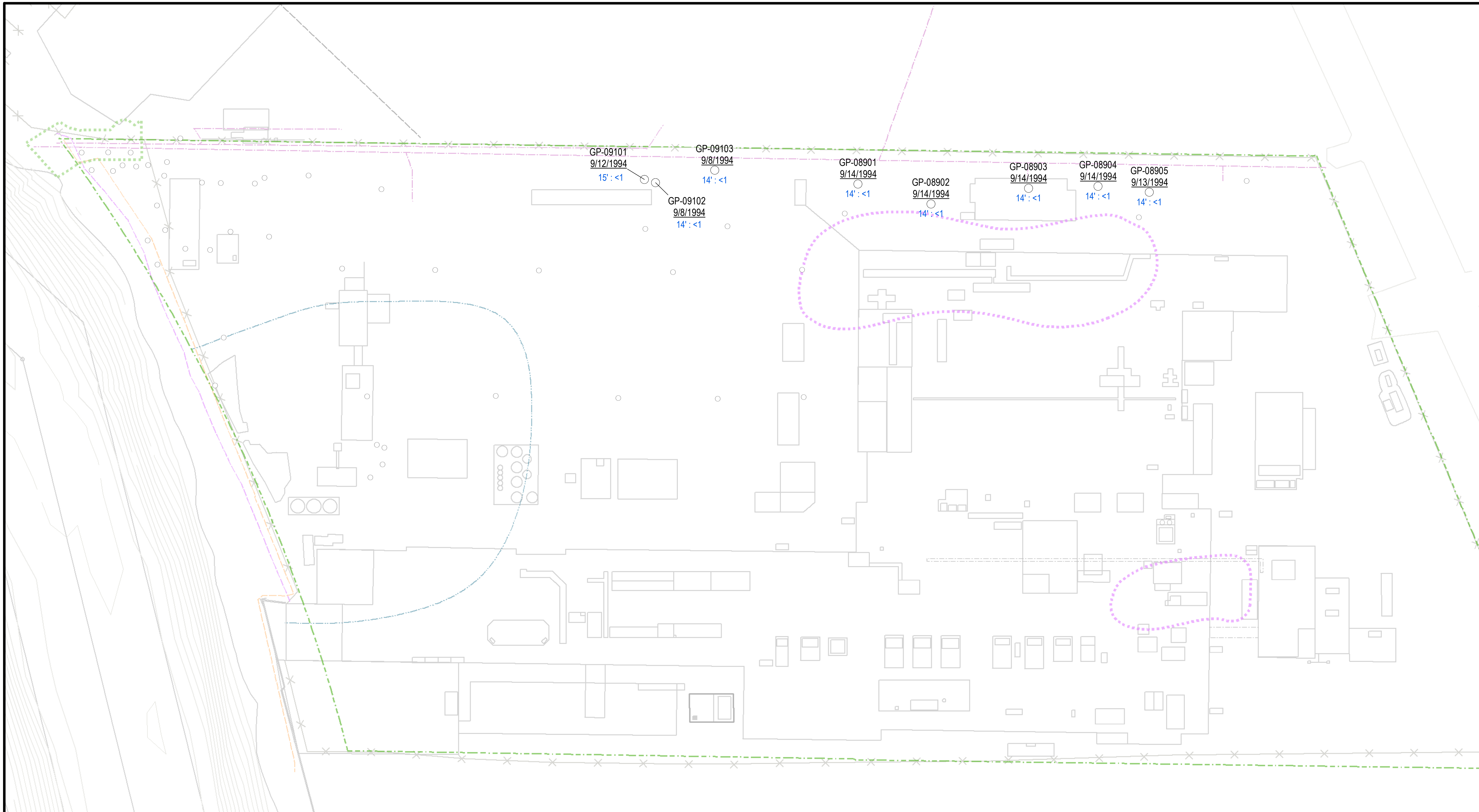
CHRYSENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-11B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for chrysene is 0.016 µg/L.

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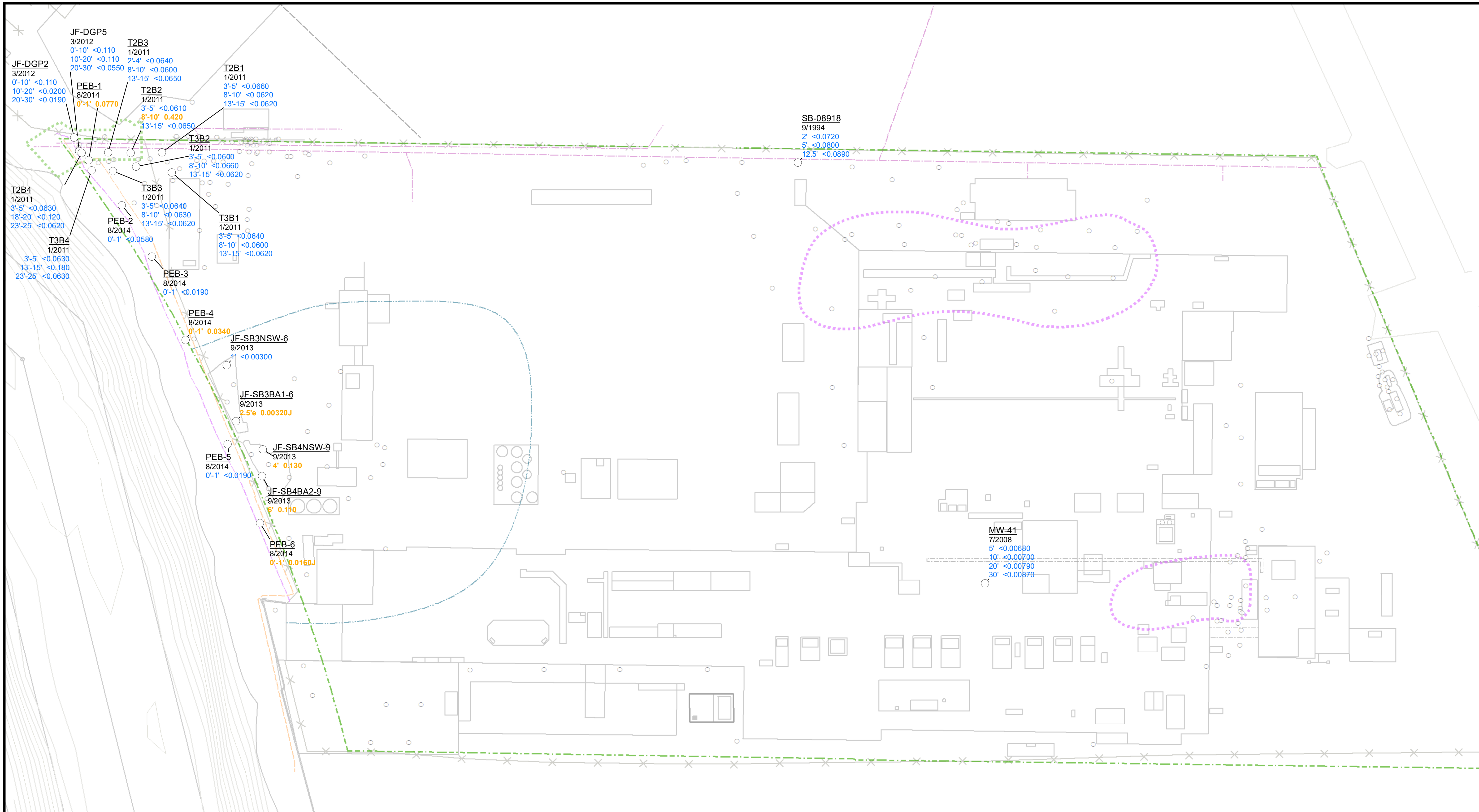
CHRYSENE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-11C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for dibenz(a,h)anthracene is 0.000029 mg/kg.

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Seattle, Washington

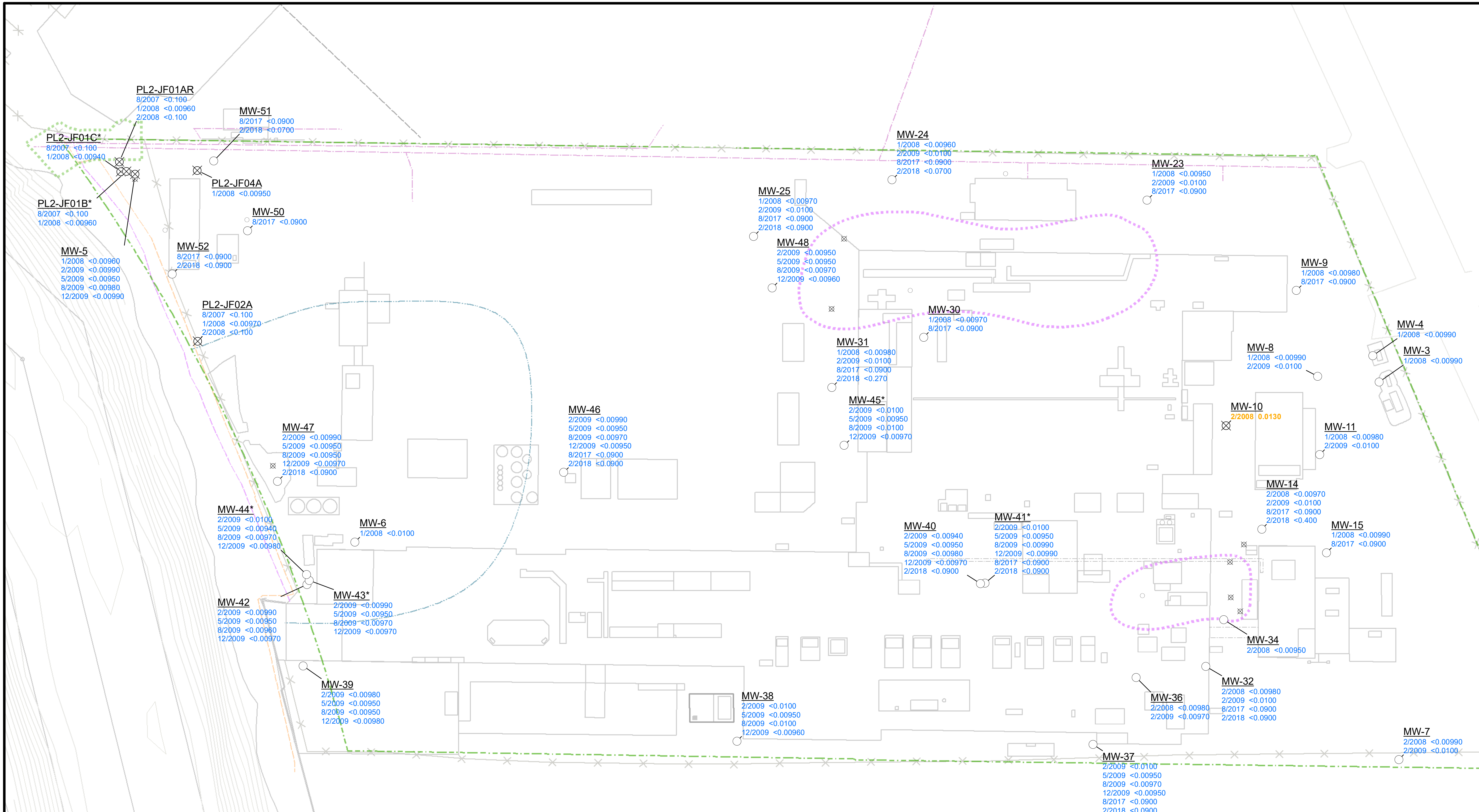
DIBENZ(A,H)ANTHRACENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-12A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



LEGEND

- Sample Location   * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 dibenz(a,h)anthracene is 0.000016 µg/L.

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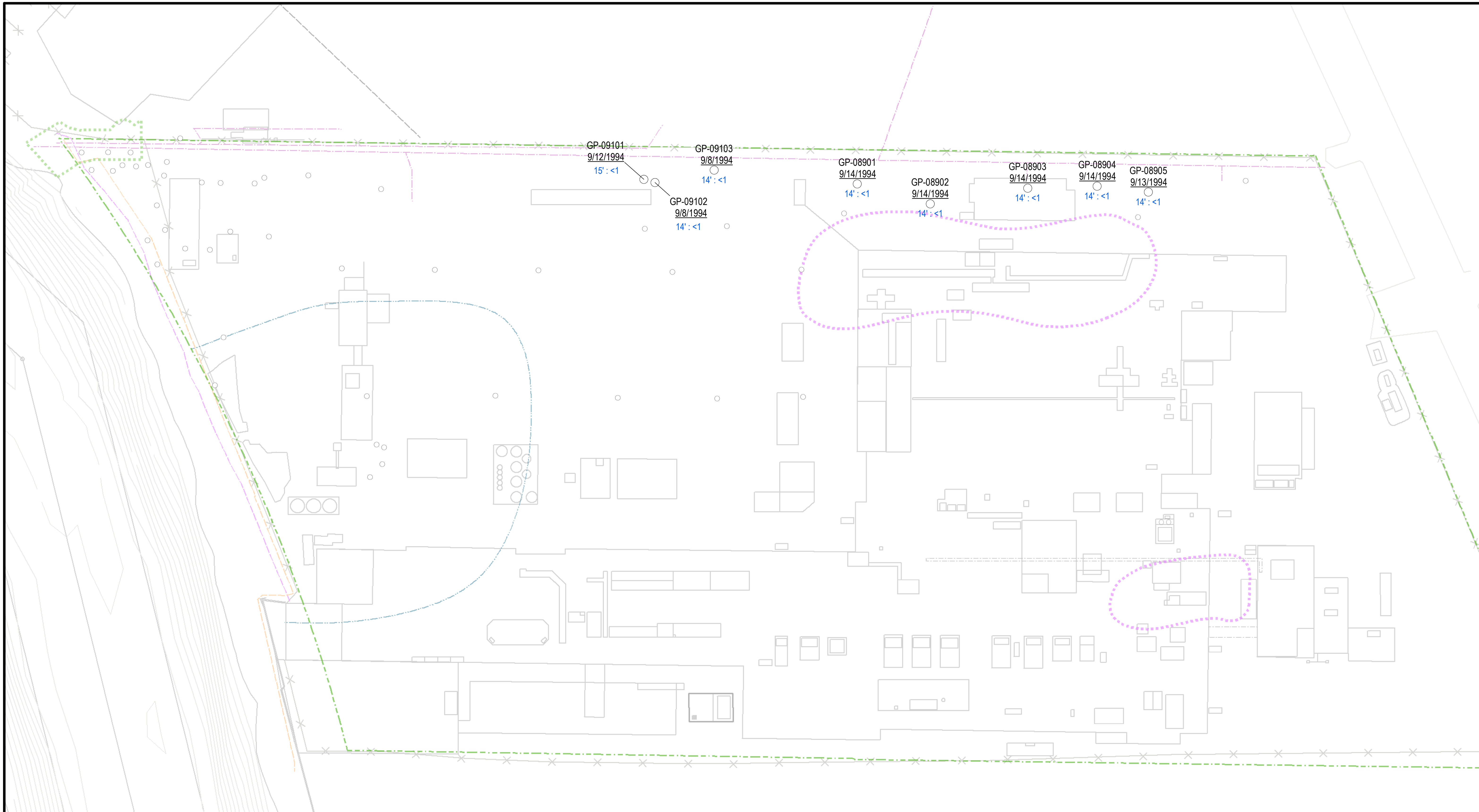
Seattle, Washington

DIBENZ(A,H)ANTHRACENE IN GROUNDWATER

March 2020 | 21-1-12596-013

SHANNON & WILSON | **FIG. B-12B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S

0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for dibenz(a,h)anthracene is 0.000016 µg/L.

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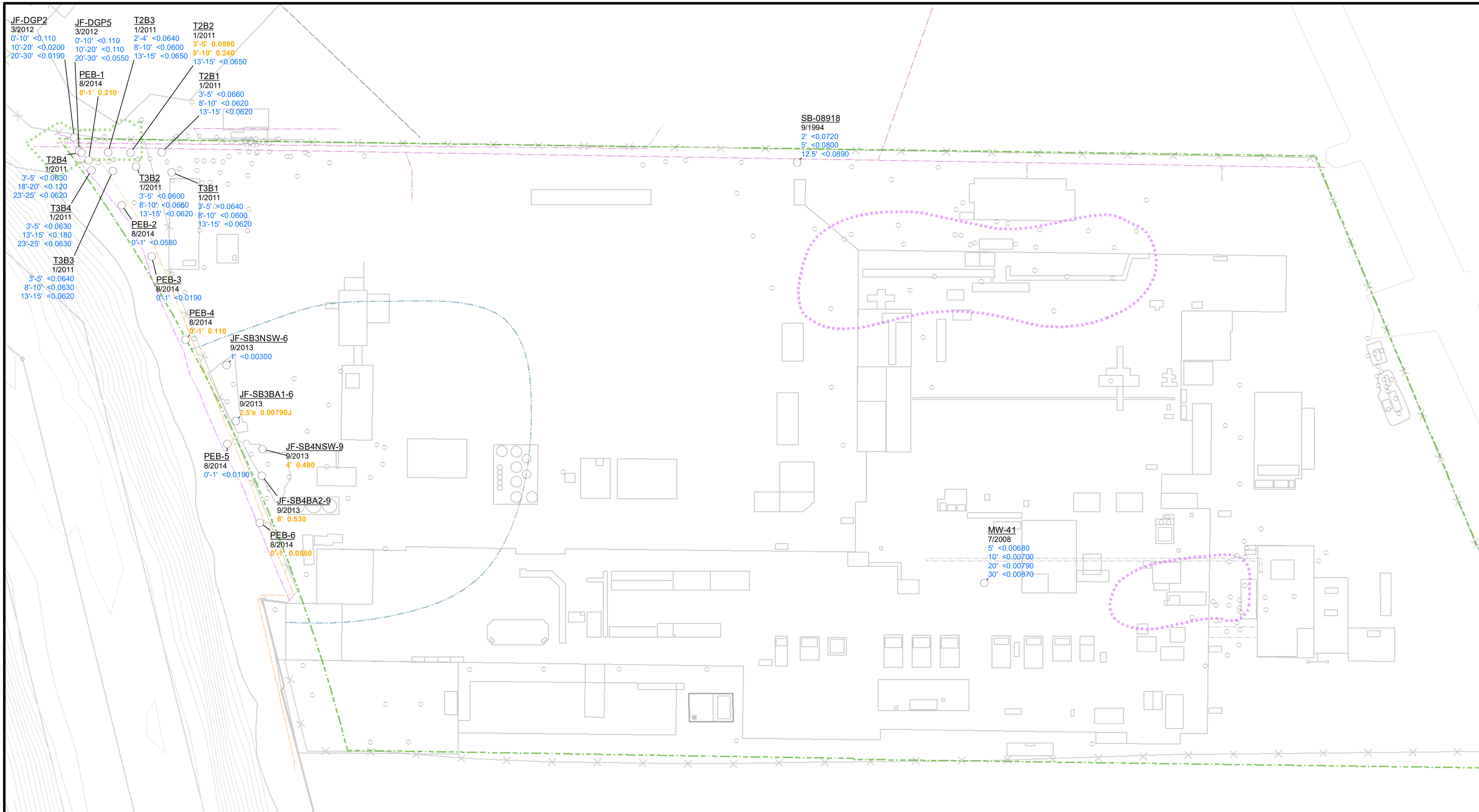
DIBENZ(A,H)ANTHRACENE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-12C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for indeno(1,2,3-cd)pyrene is 0.00056 mg/kg.

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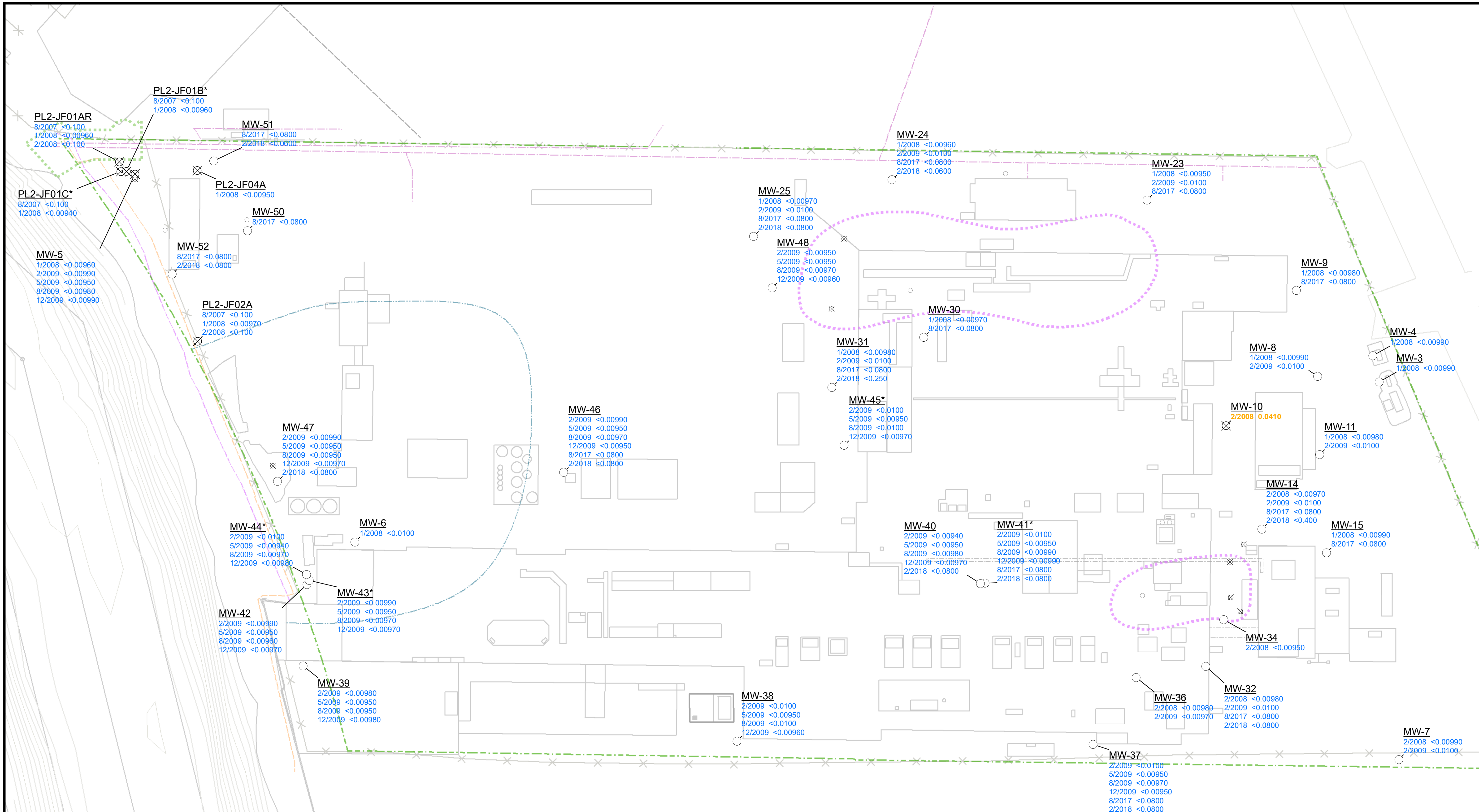
INDENO(1,2,3-CD)PYRENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-13A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 indeno(1,2,3-cd)pyrene is 0.00016 µg/L.

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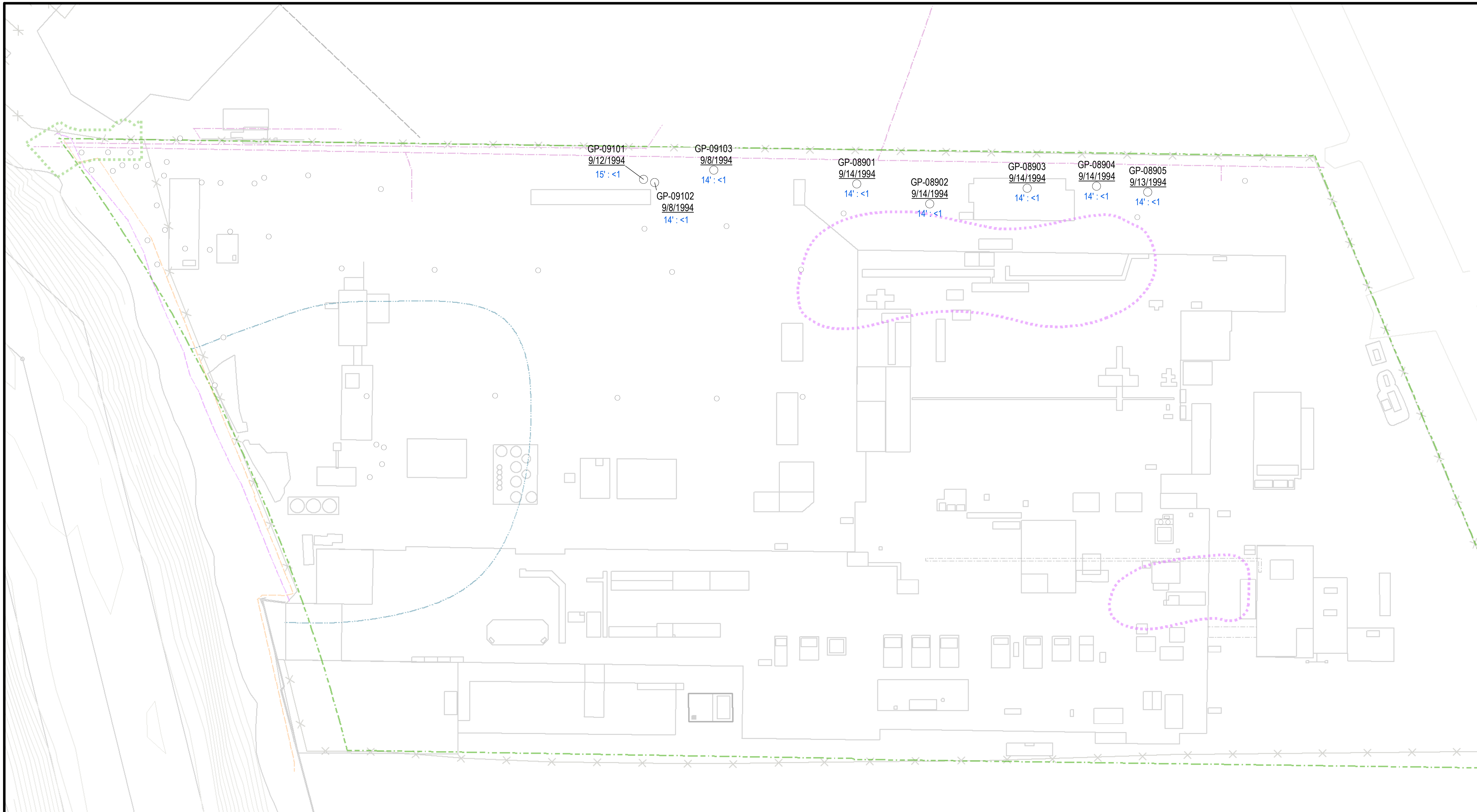
INDENO(1,2,3-CD)PYRENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-13B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location

Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for indeno(1,2,3-cd)pyrene is 0.00016 µg/L.

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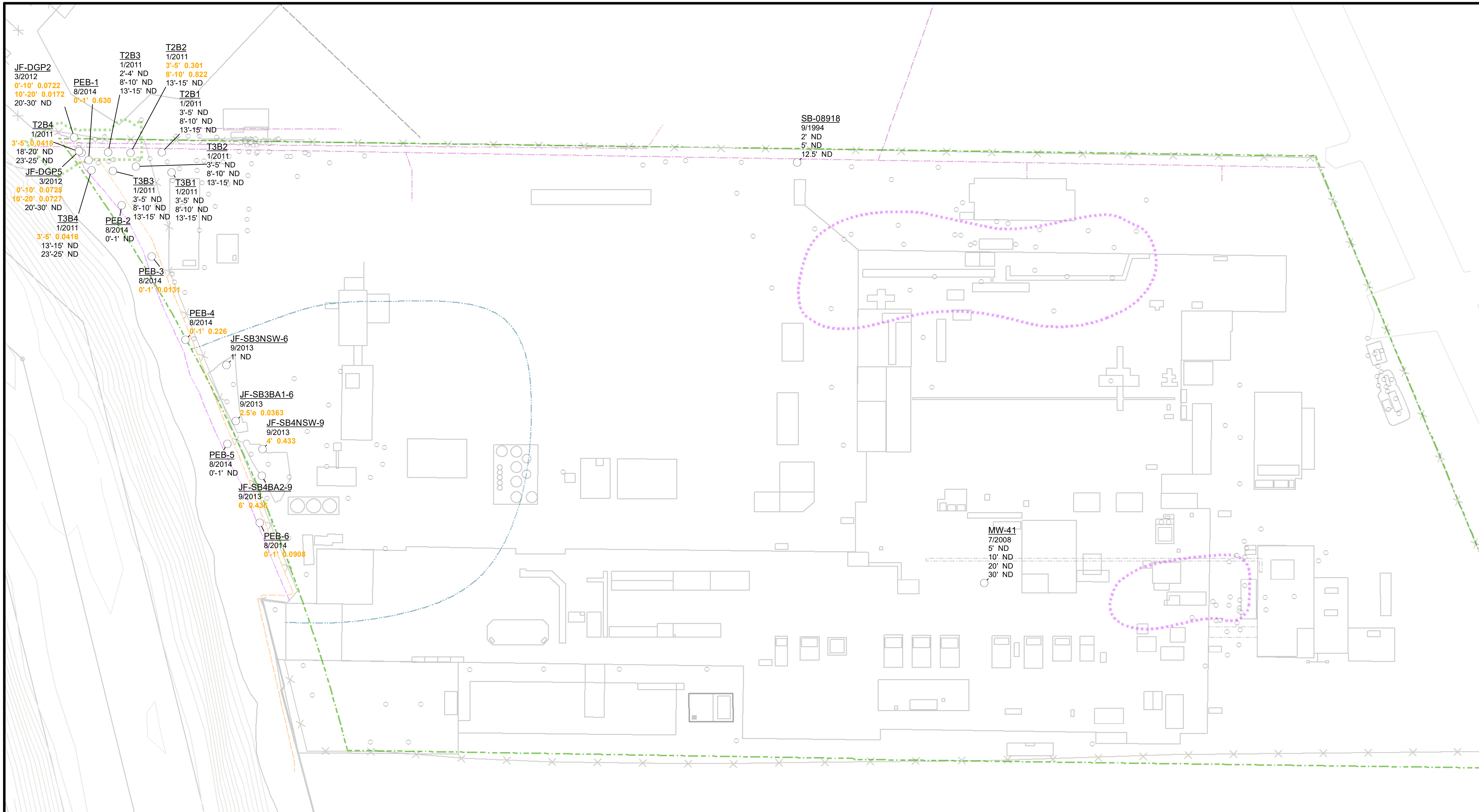
INDENO(1,2,3-CD)PYRENE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-13C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for total cPAH TEQ is 0.00031 mg/kg.

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TOTAL CPAH TEQ IN SOIL

March 2020

21-1-12596-013

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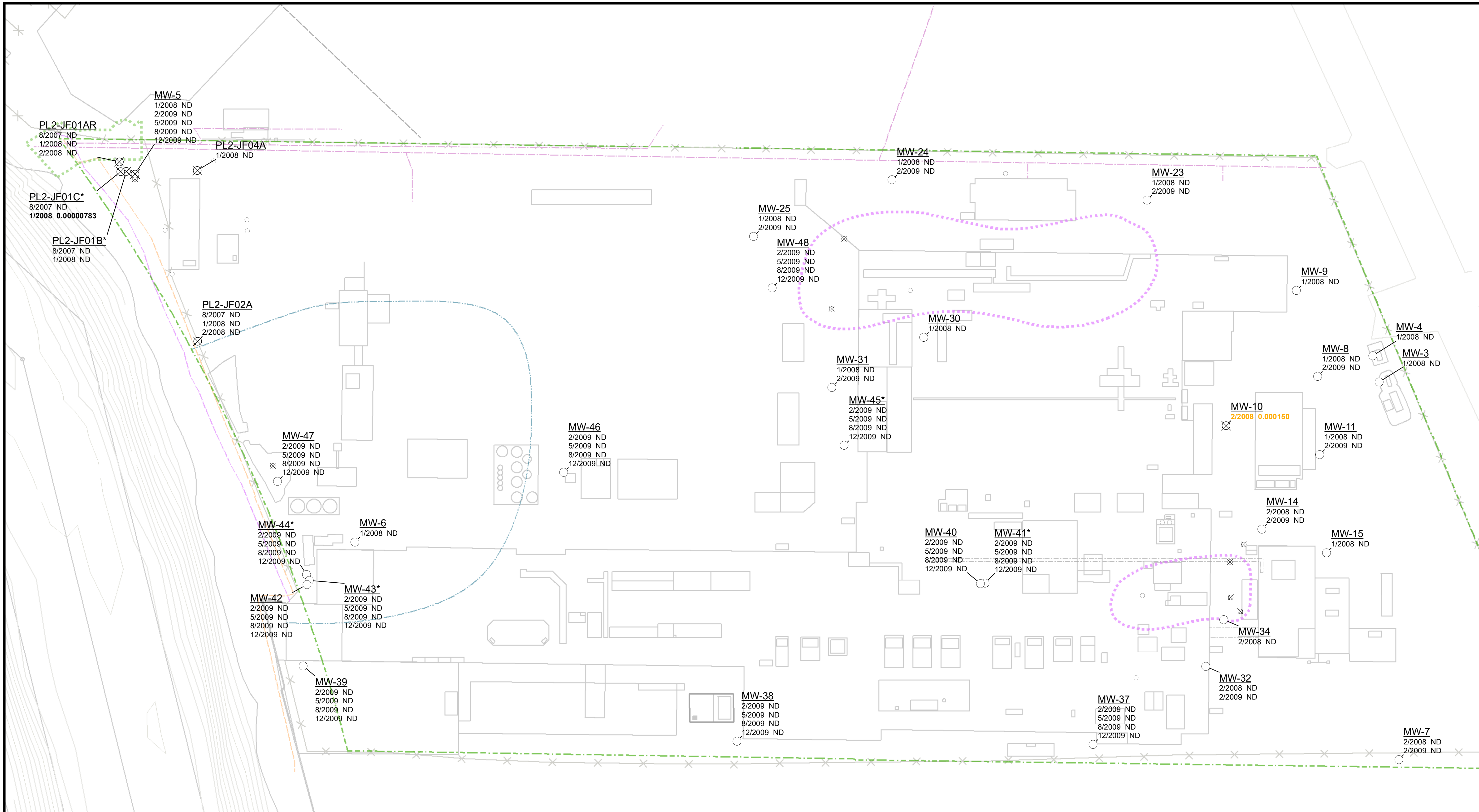
FIG. B-14A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location * = *Deep Aquifer*

Sample Location - Decommissioned or Inaccessible

Sample Location w/ Analytical Result

Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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

Approximate Area LNAPL Plume

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 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 total cPAH TEQ is 0.000016 µg/L.

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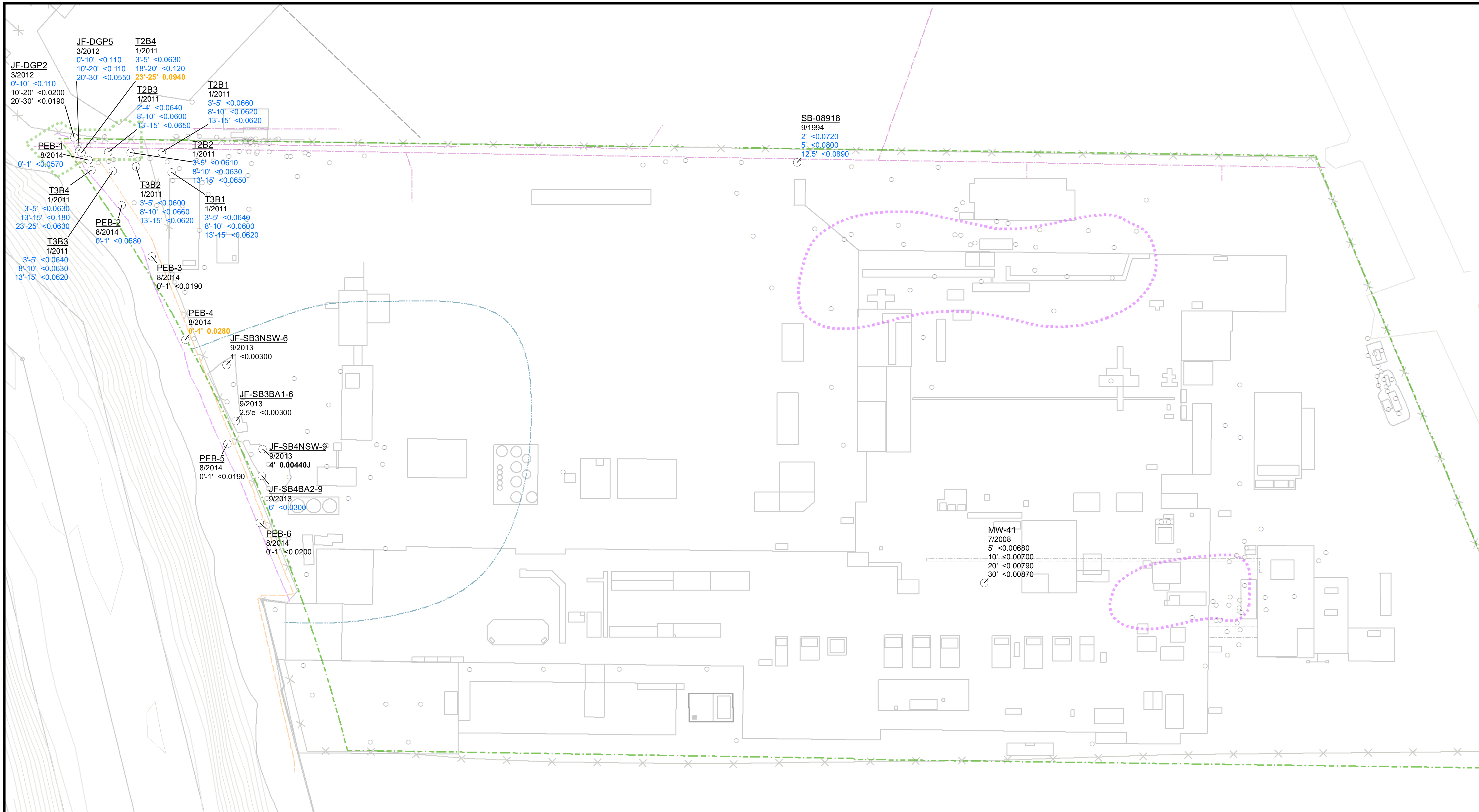
TOTAL CPAH TEQ IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-14B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for acenaphthene is 0.028 mg/kg.

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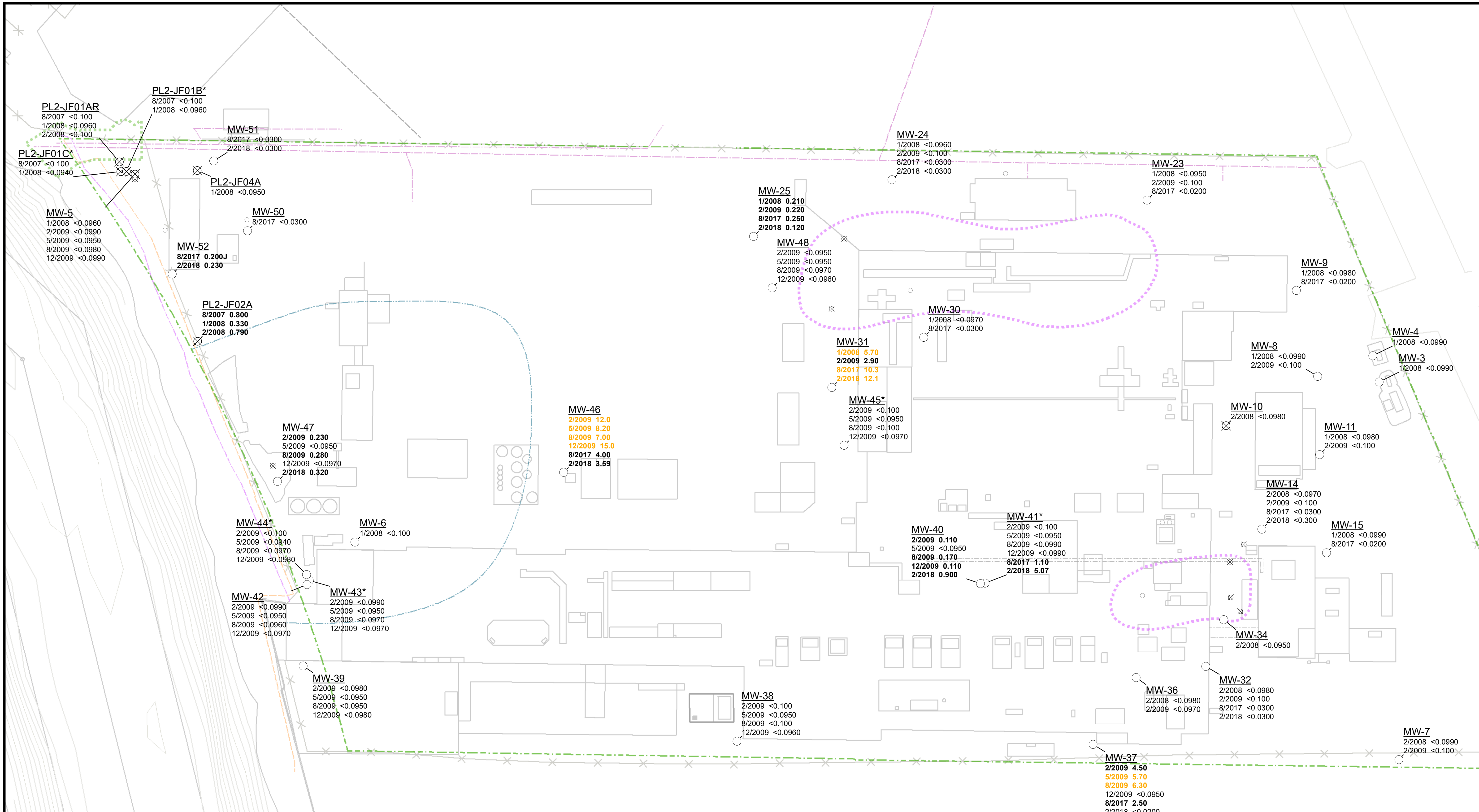
Seattle, Washington

ACENAPHTHENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-15A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 acenaphthene is 5.34 µg/L.

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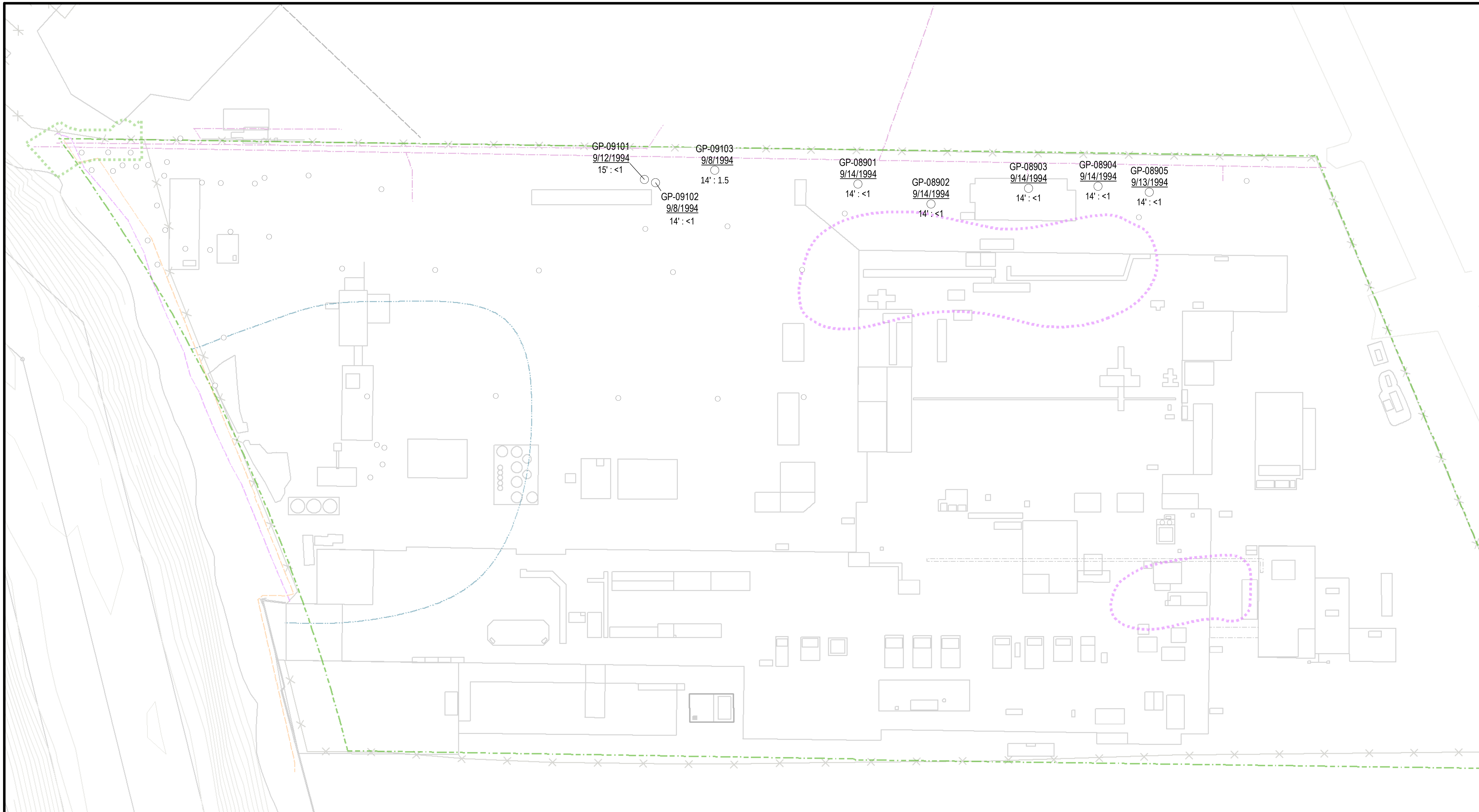
ACENAPHTHENE IN GROUNDWATER

March 2020 | 21-1-12596-013

SHANNON & WILSON | **FIG. B-15B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for acenaphthene is 5.34 µg/L.

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Seattle, Washington

ACENAPHTHENE IN GRAB GROUNDWATER SAMPLES

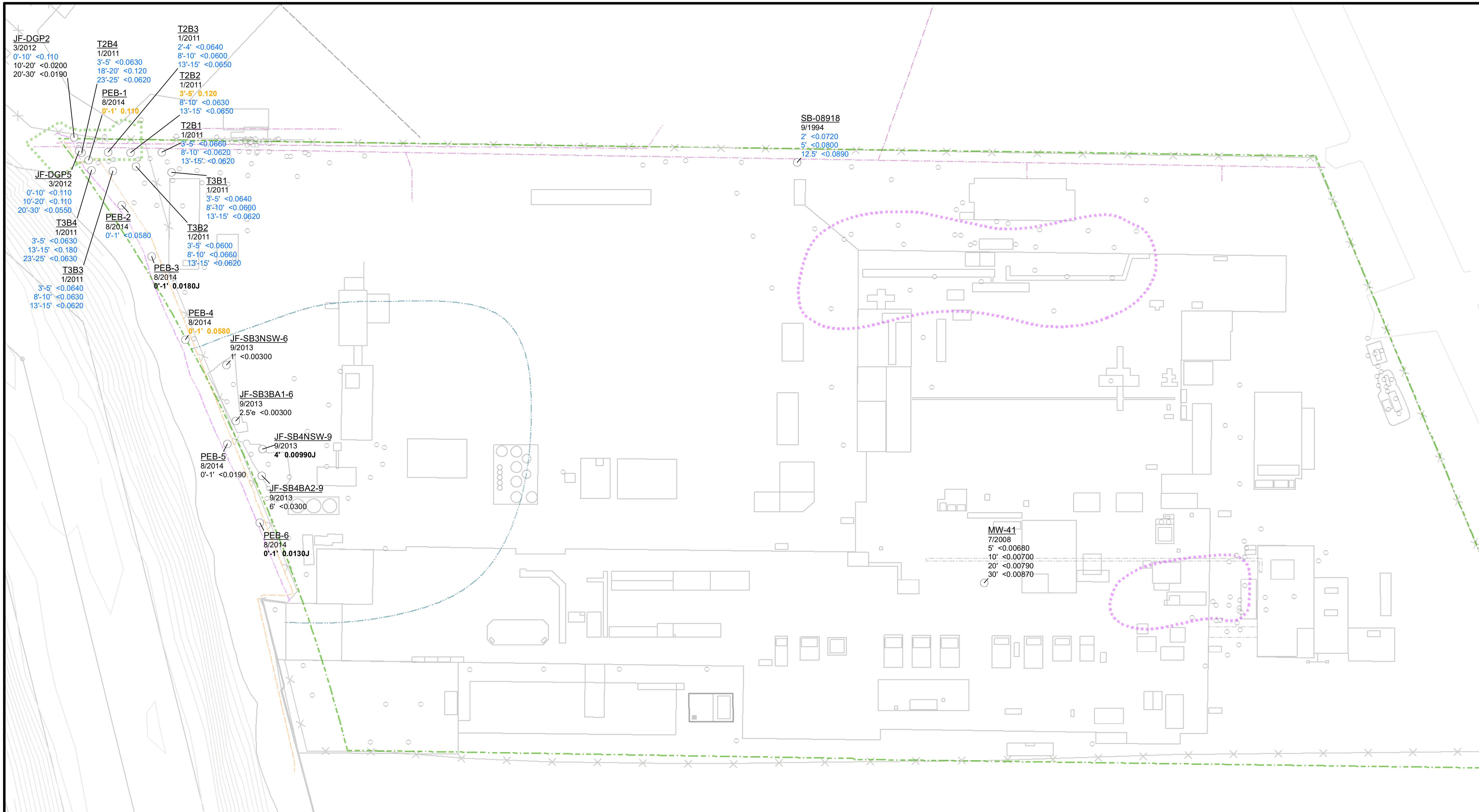
March 2020

21-1-12596-013

SHANNON & WILSON

FIG. B-15C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for anthracene is 0.051 mg/kg.

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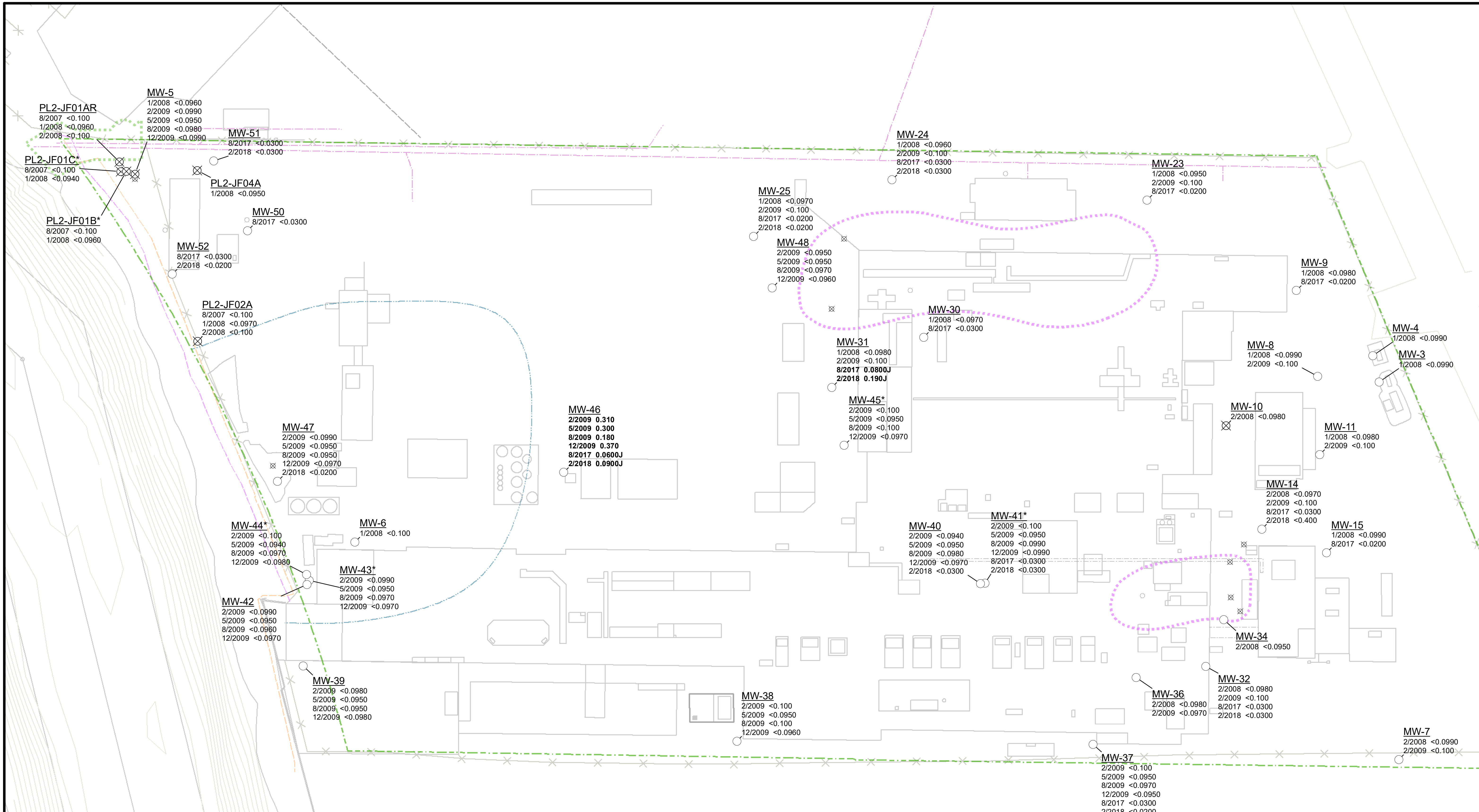
ANTHRACENE IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-16A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location * = *Deep Aquifer*

Sample Location - Decommissioned or Inaccessible

Sample Location w/ Analytical Result

Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
Approximate Area LNAPL Plume
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 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 anthracene is 2.15 µg/L.

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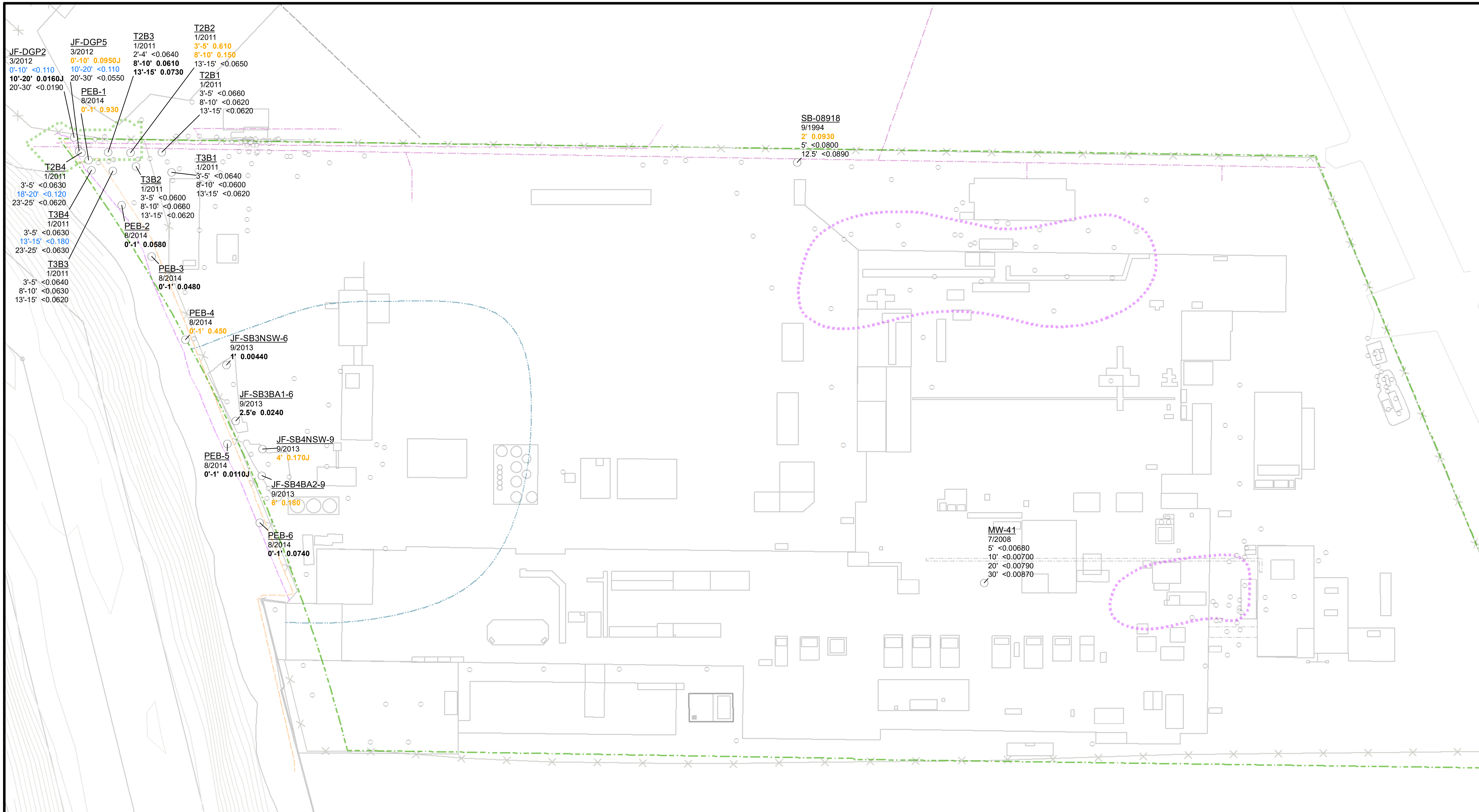
ANTHRACENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-16B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for fluoranthene is 0.09 mg/kg.

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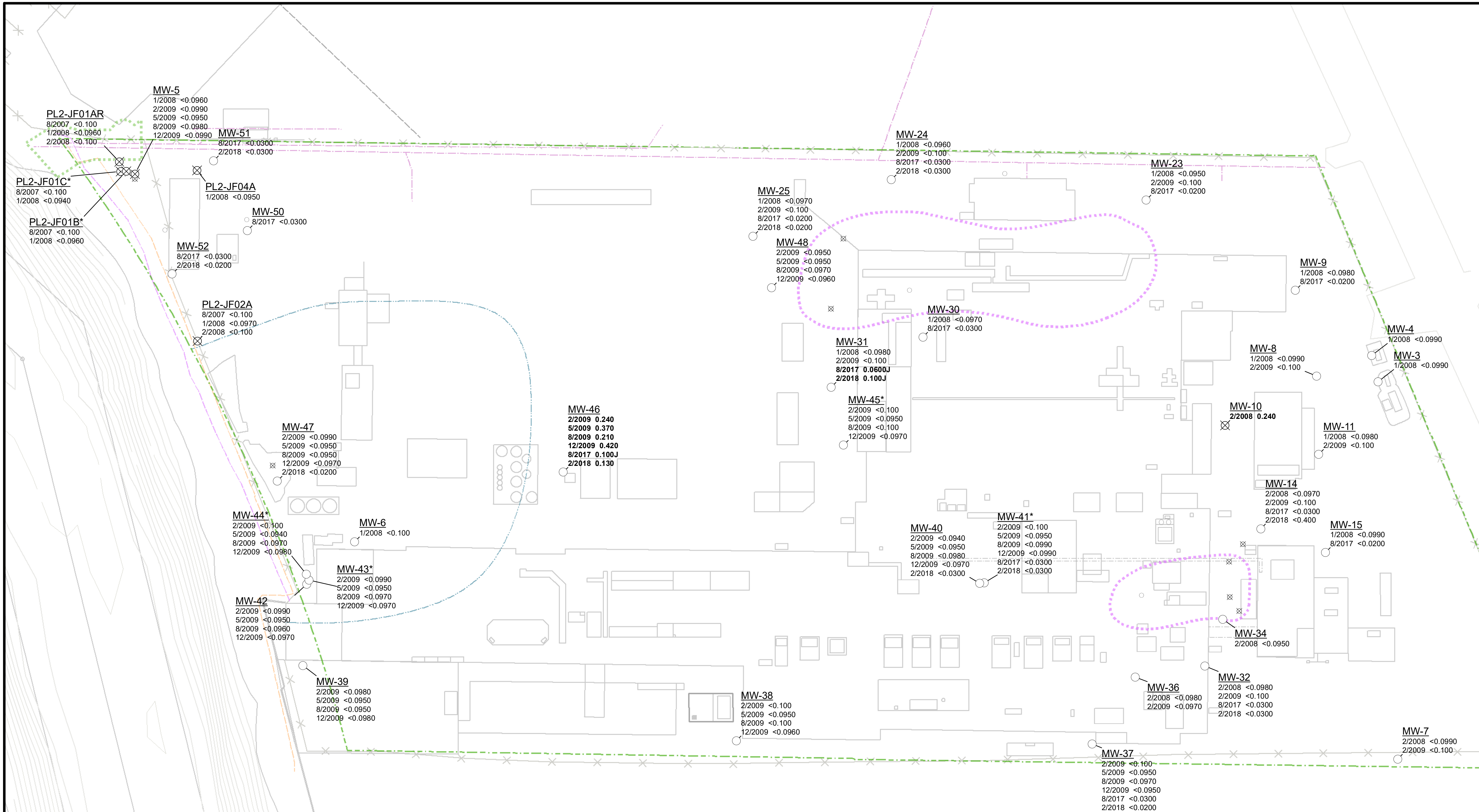
FLUORANTHENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-17A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 fluoranthene is 1.82 µg/L.

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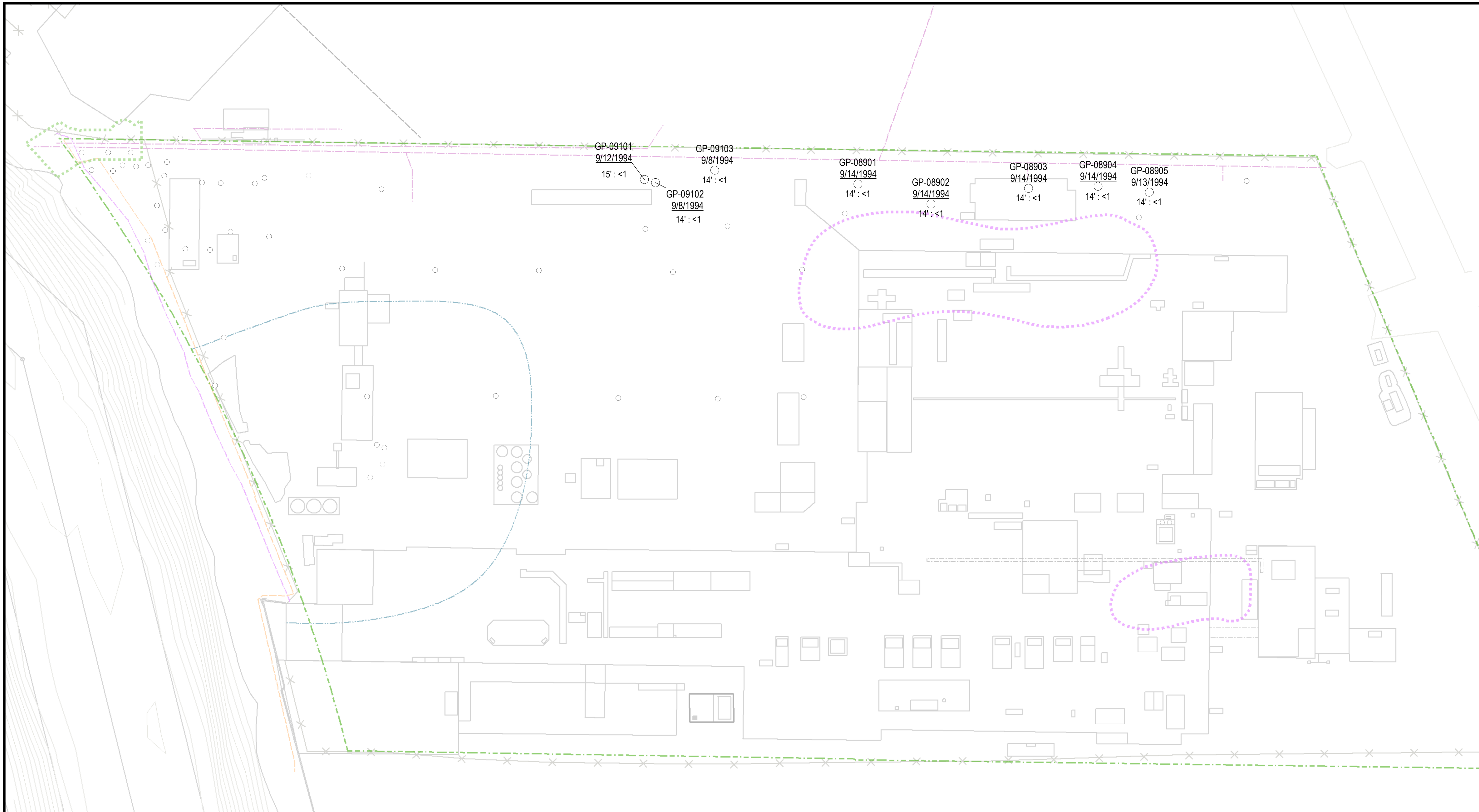
FLUORANTHENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-17B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for fluoranthene is 1.82 µg/L.

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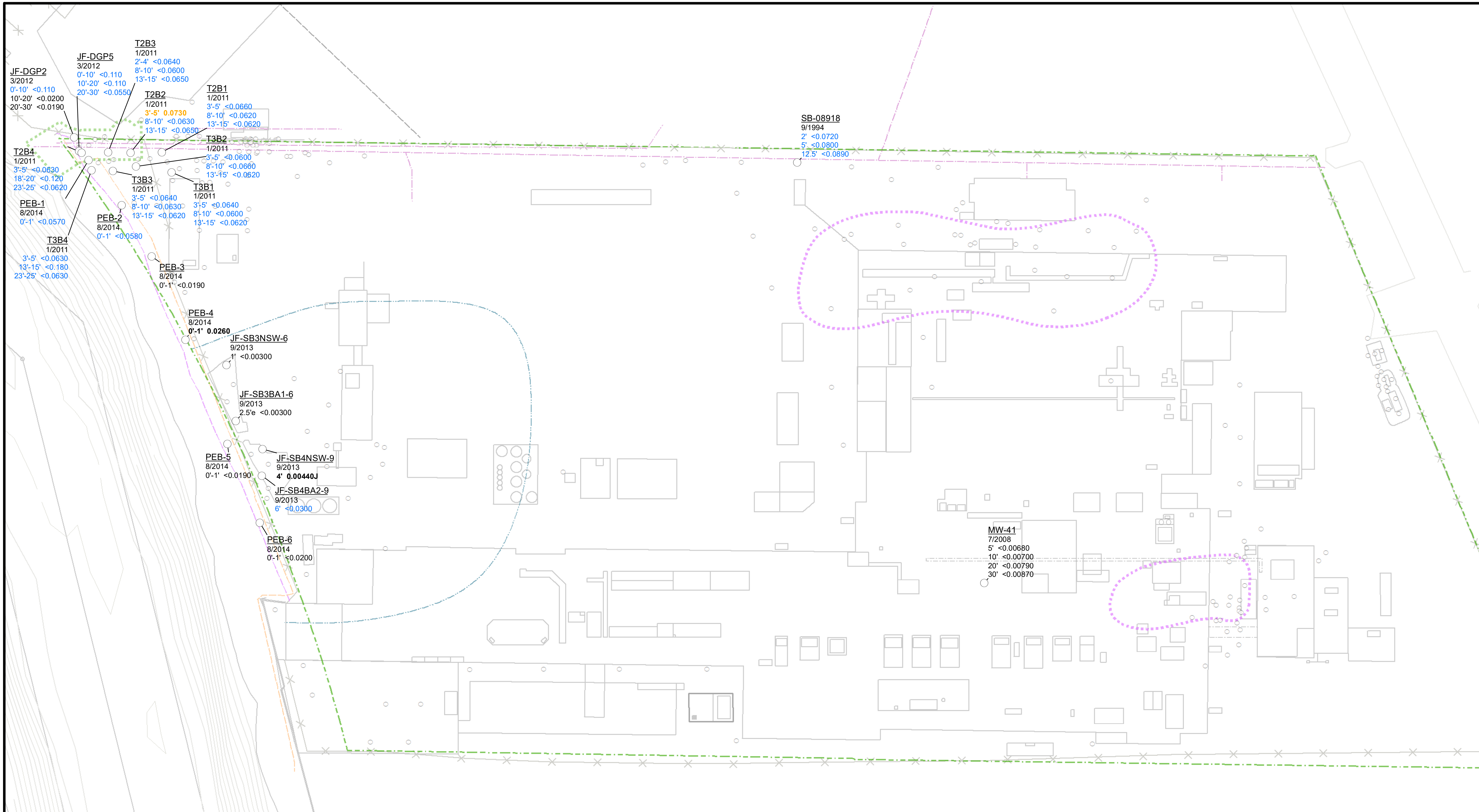
FLUORANTHENE IN GRAB GROUNDWATER SAMPLES

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-17C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for fluorene is 0.029 mg/kg.

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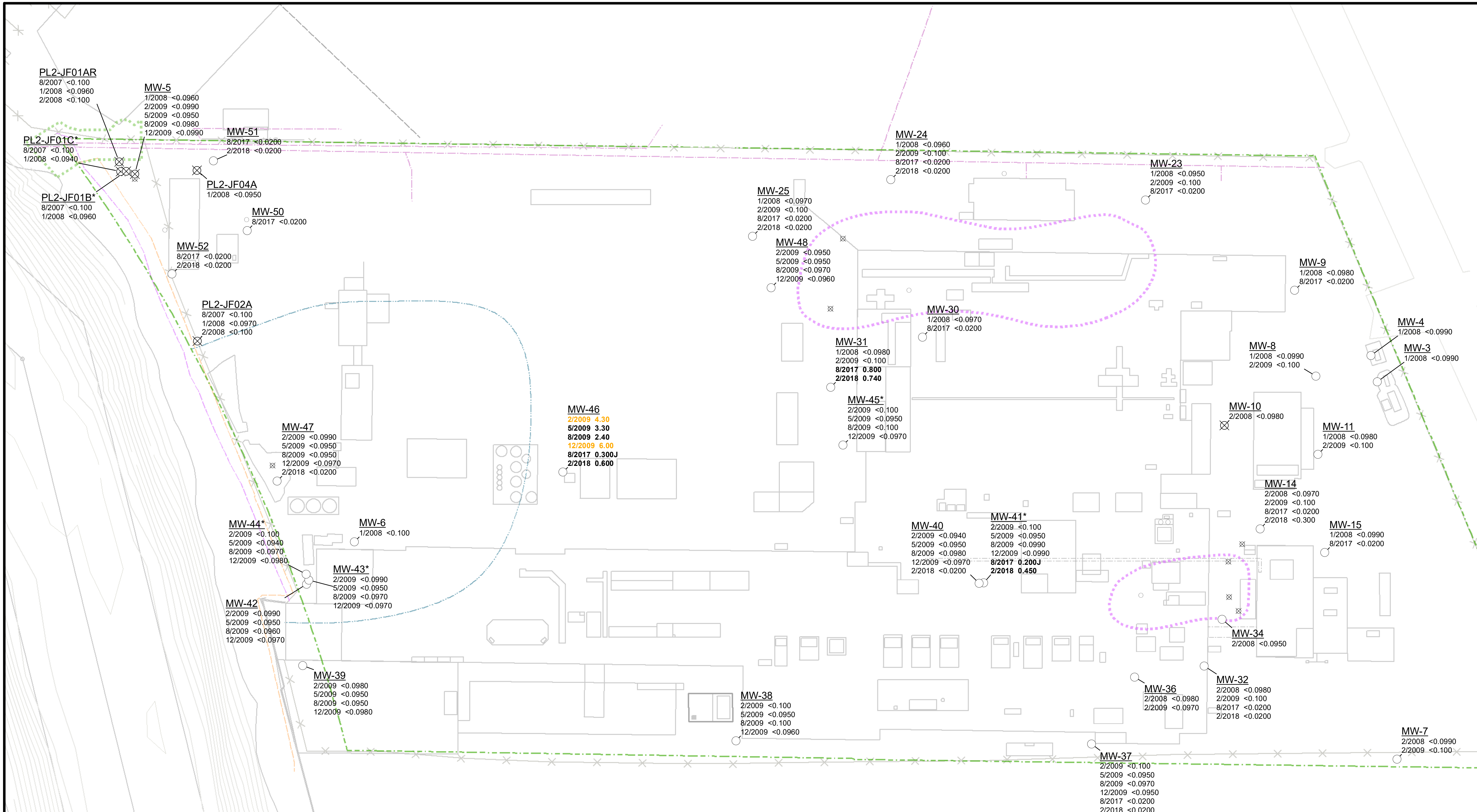
FLUORENE IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | **FIG. B-18A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 fluorene is 3.67 µg/L.

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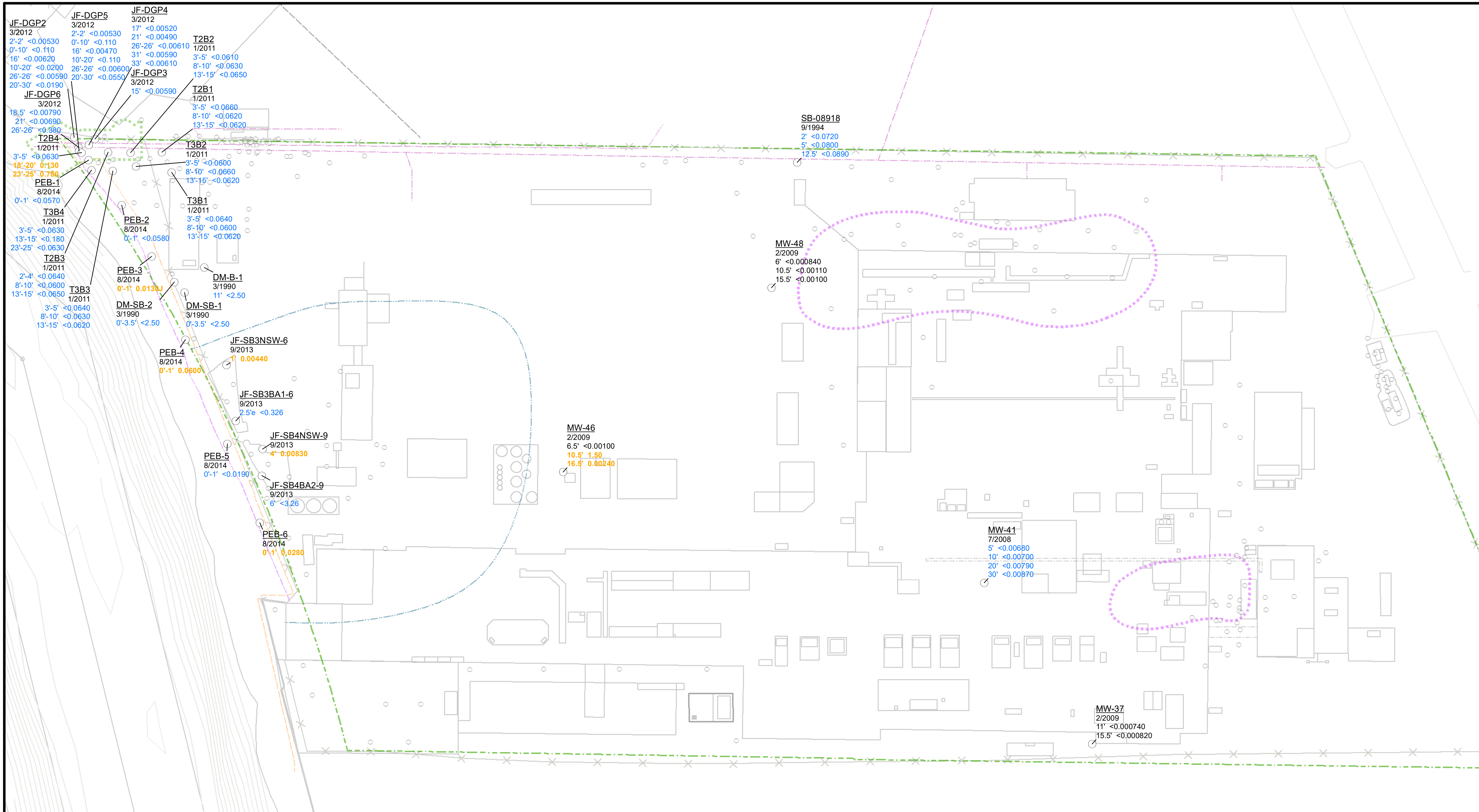
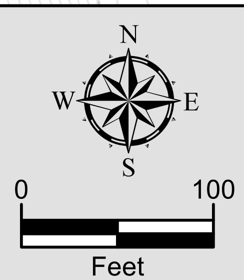
FLUORENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-18B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL





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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for naphthalene is 0.0021 mg/kg.

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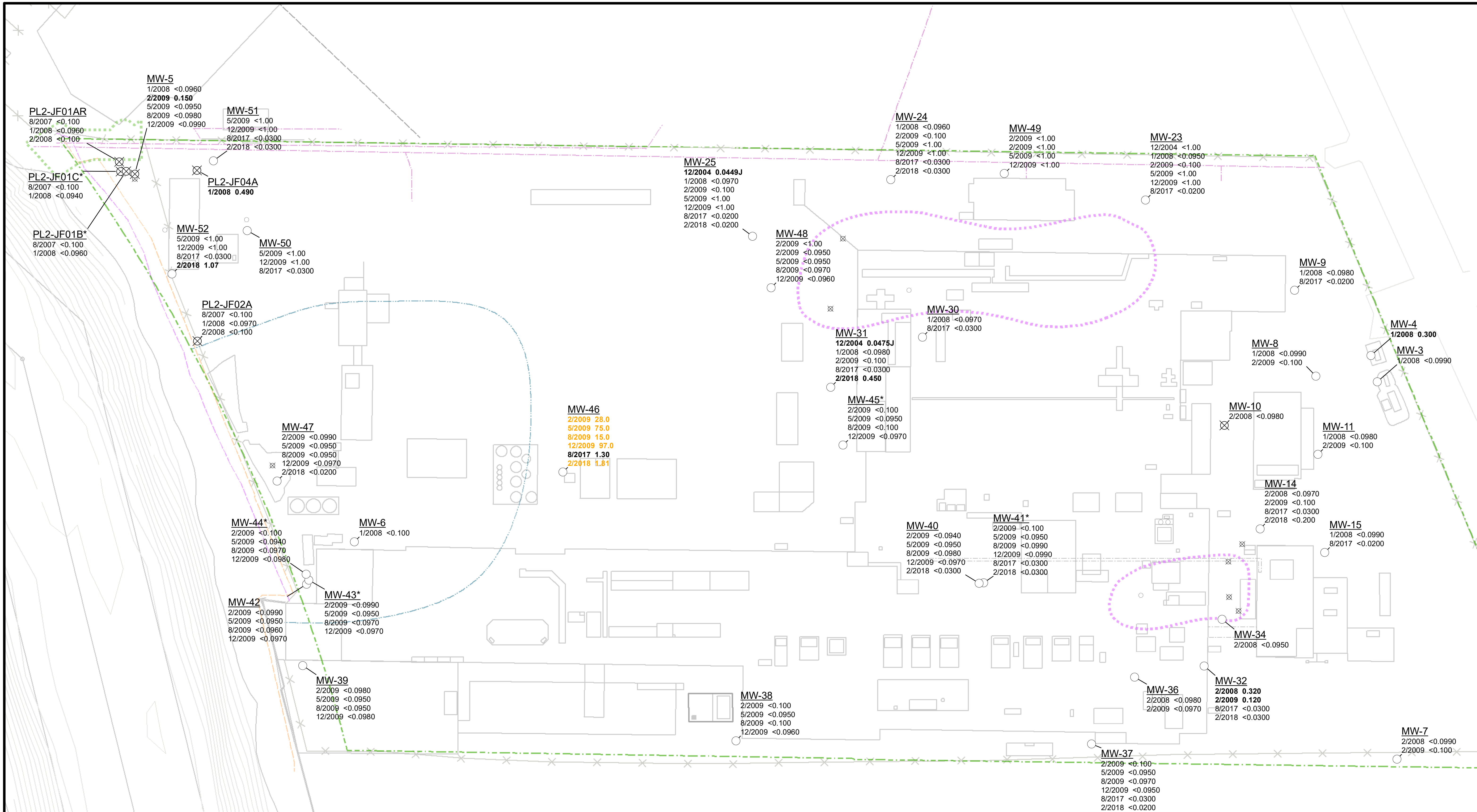
NAPHTHALENE IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-19A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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.

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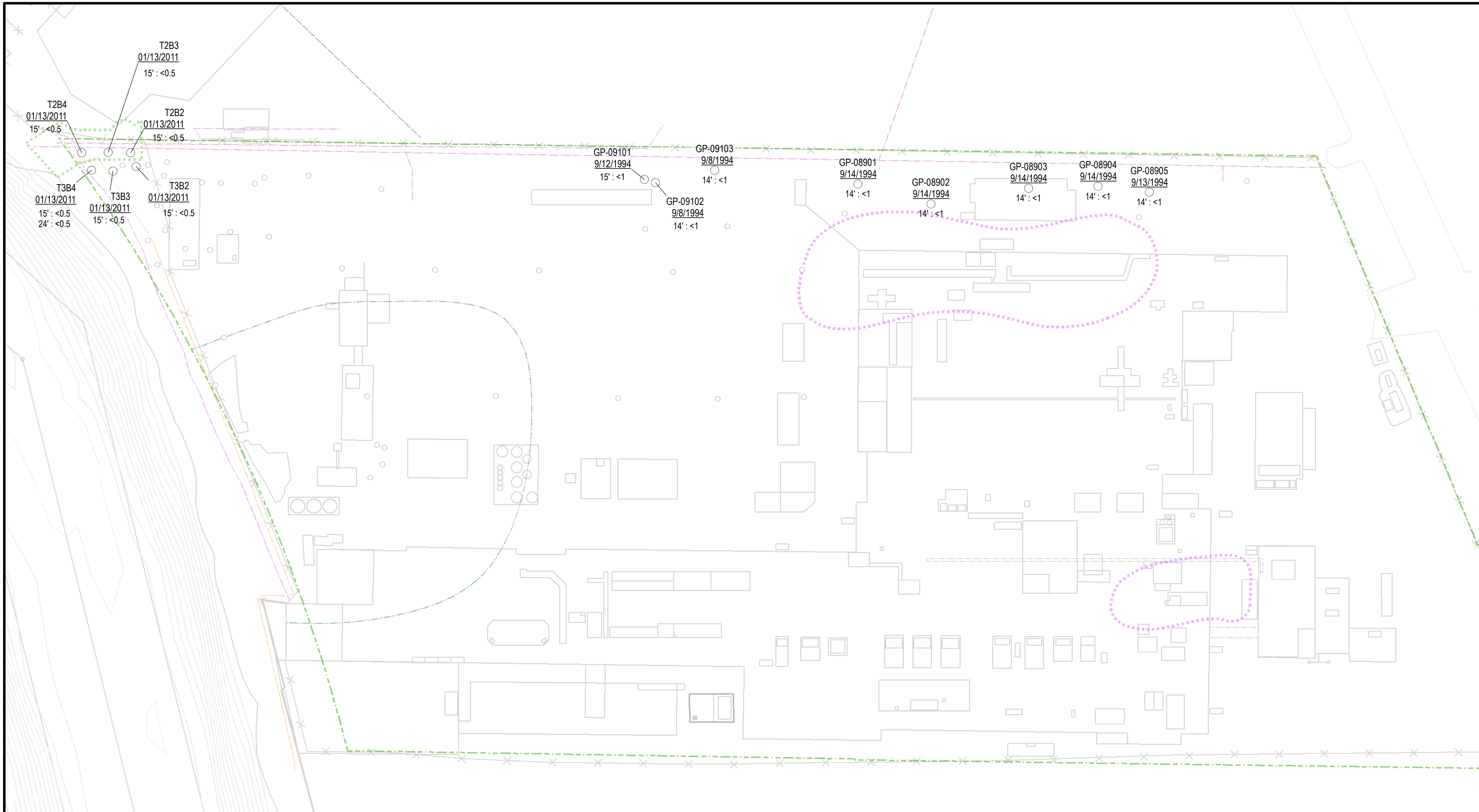
NAPHTHALENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-19B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location

Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for naphthalene is 1.4 µg/L.

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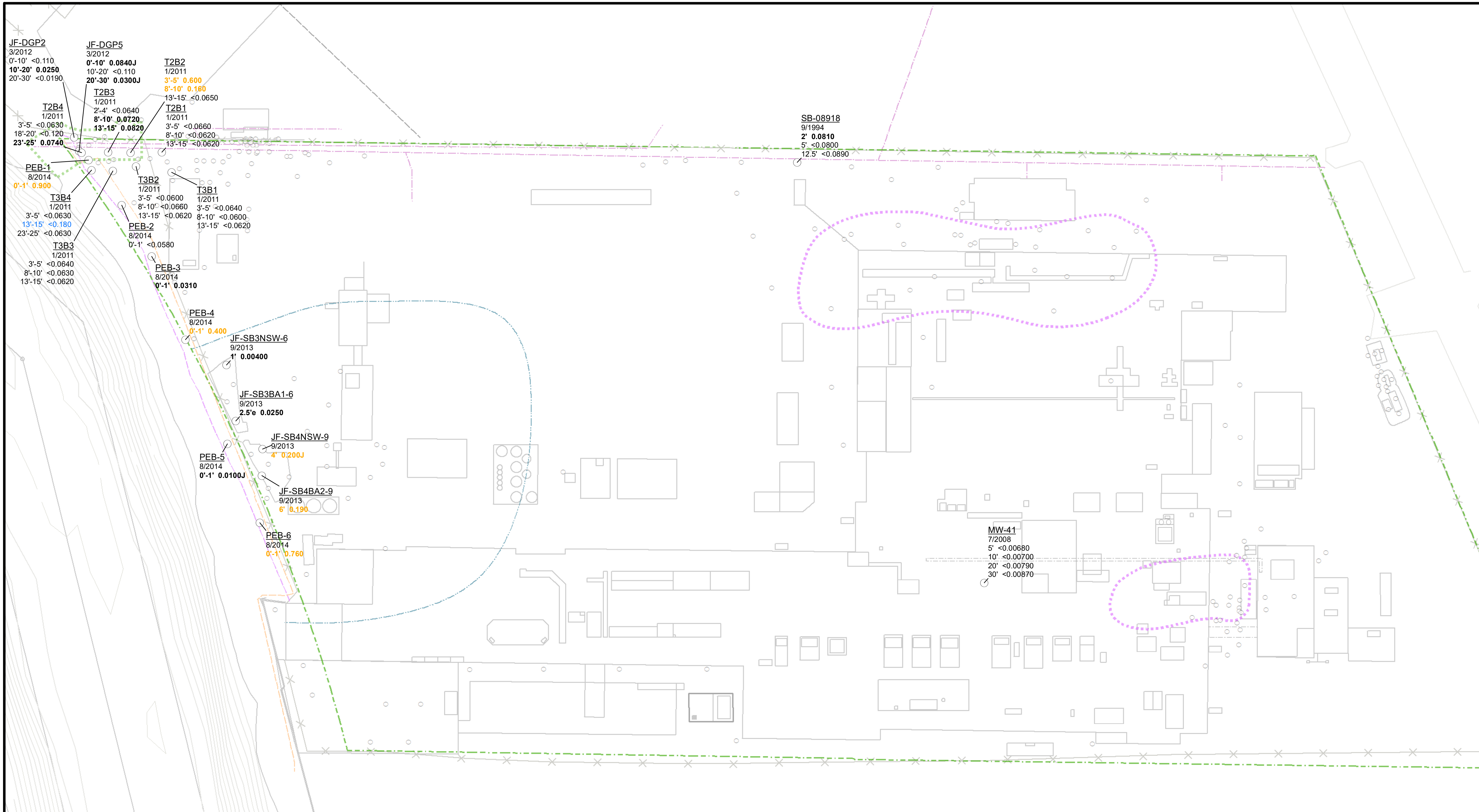
NAPHTHALENE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-19C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for pyrene is 0.14 mg/kg.

Jorgensen Forge Facility, 8531 East Marginal Way S
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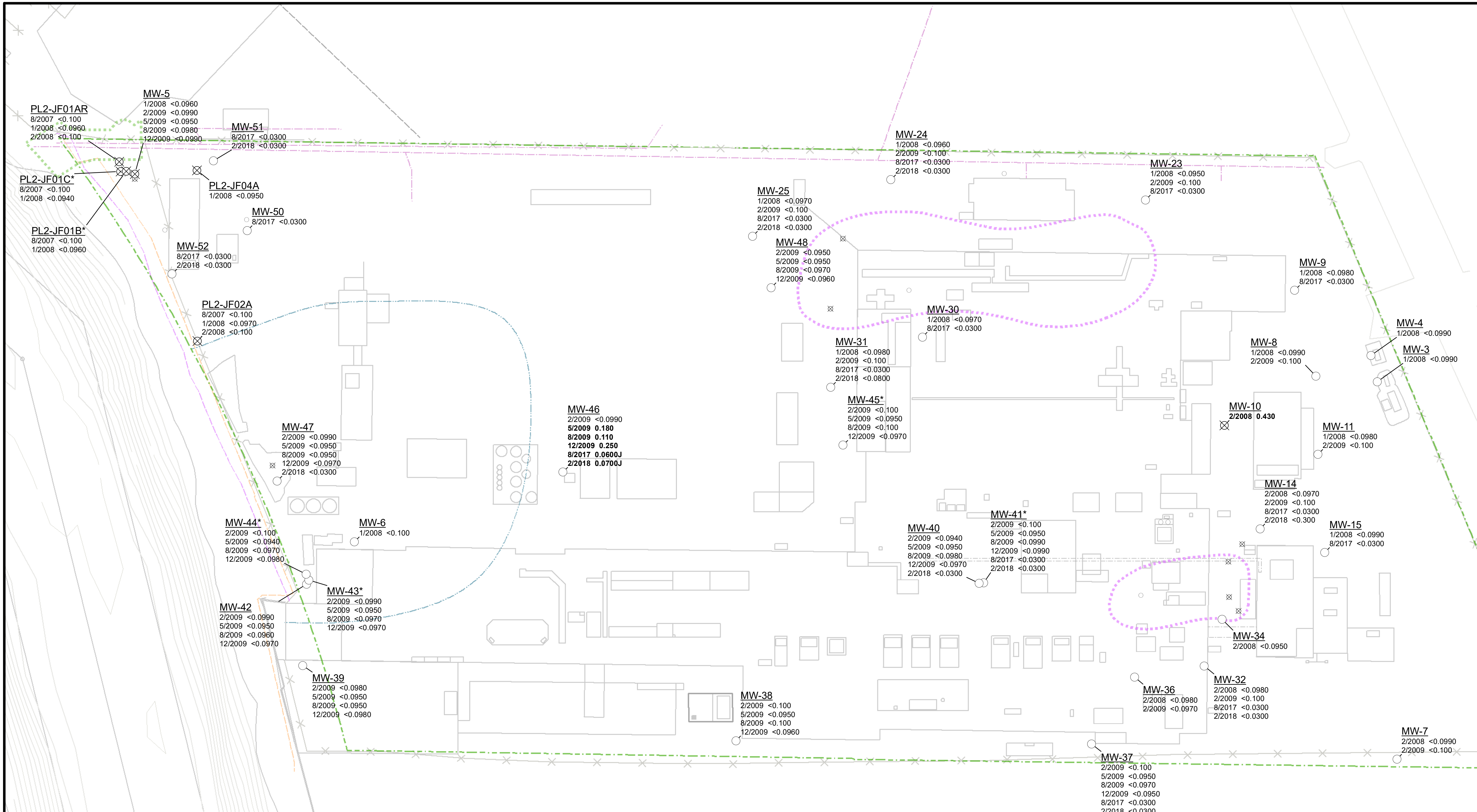
PYRENE IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-20A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location * = *Deep Aquifer*

Sample Location - Decommissioned or Inaccessible

Sample Location w/ Analytical Result

Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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

Approximate Area LNAPL Plume

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 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 pyrene is 2.01 µg/L.

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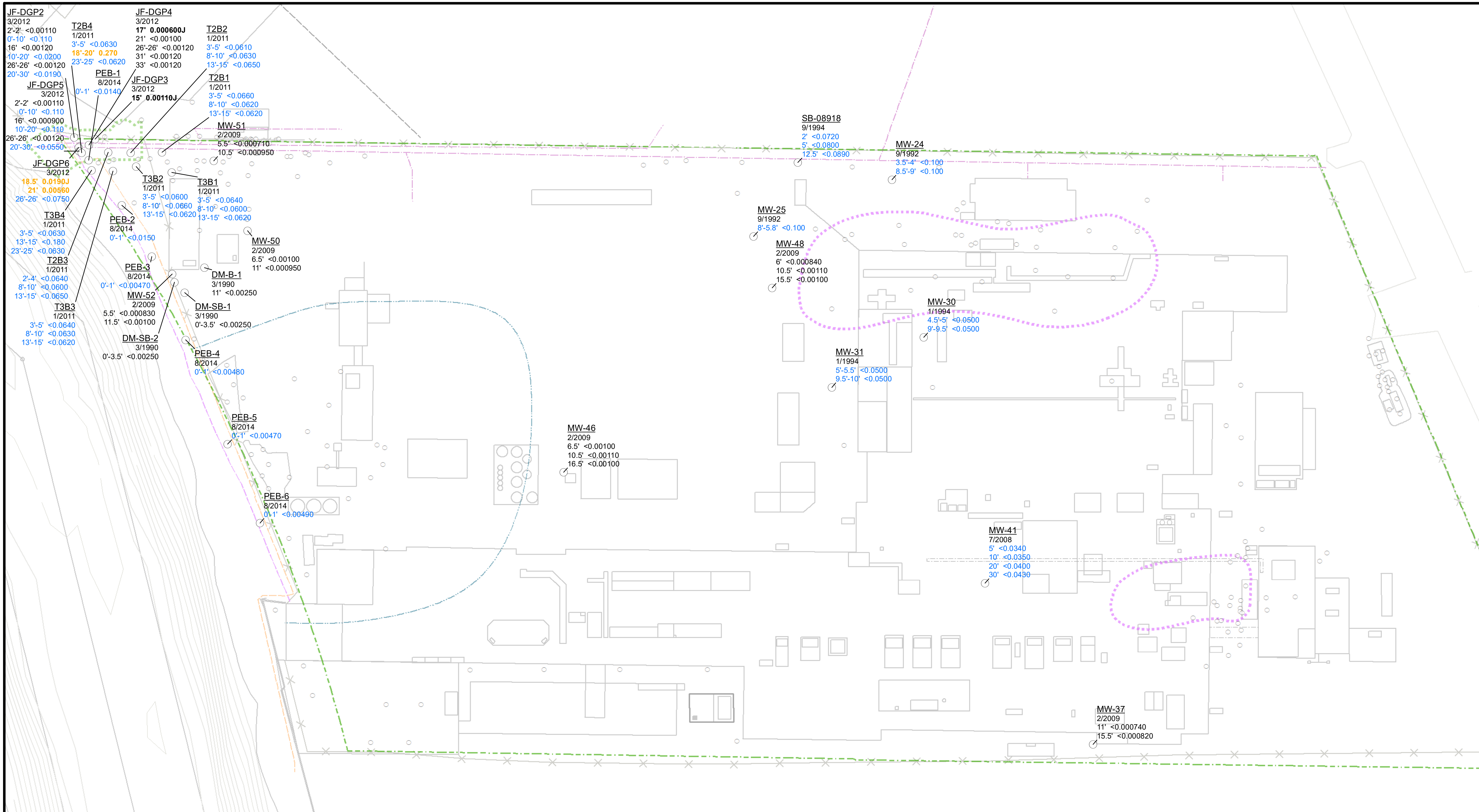
PYRENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-20B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for 1,2-dichlorobenzene is 0.0031 mg/kg.

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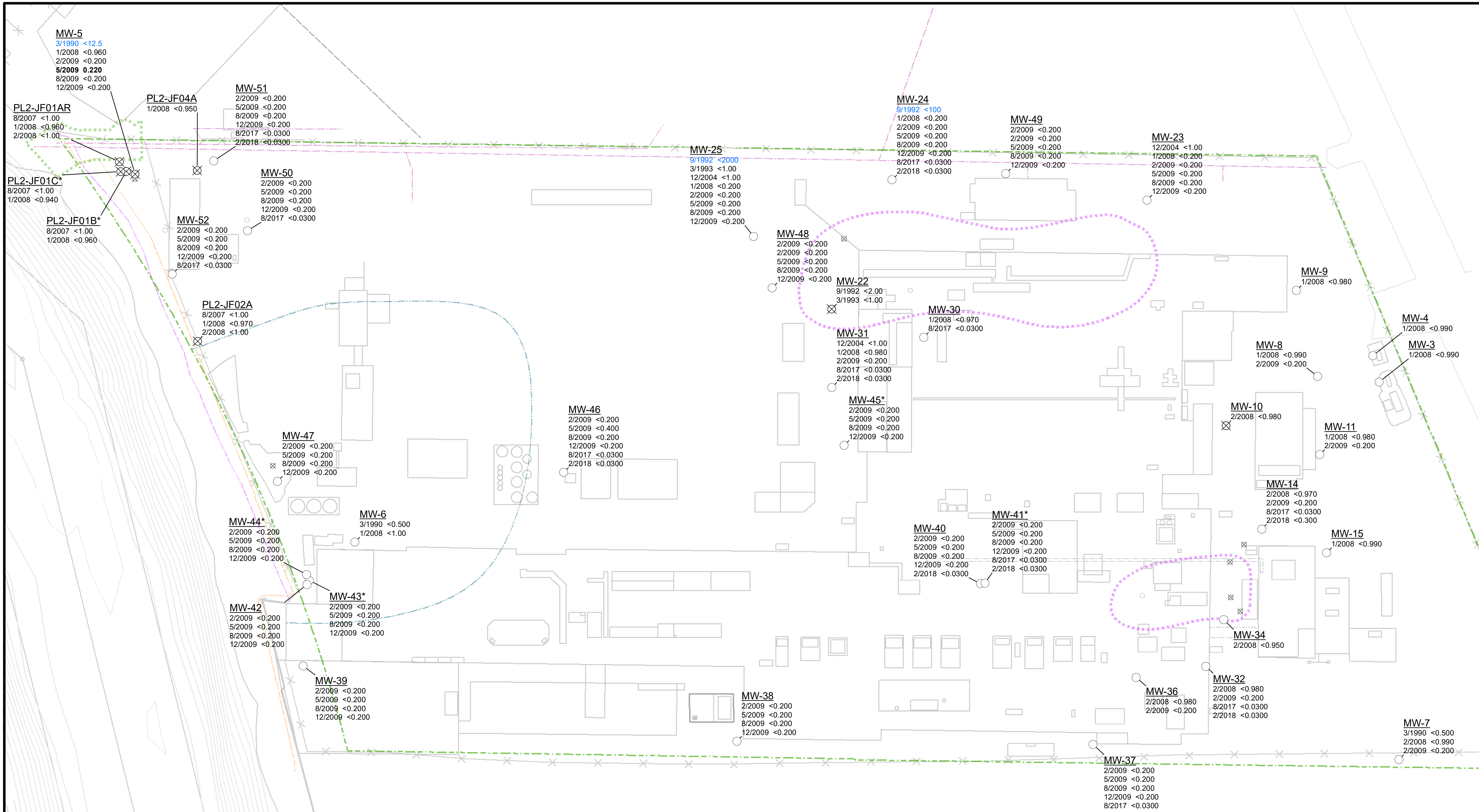
1,2-DICHLOROBENZENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-21A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W
E
S
0
100
Feet

LEGEND

Sample Location * = *Deep Aquifer*

Sample Location - Decommissioned or Inaccessible

Sample Location w/ Analytical Result

Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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

Approximate Area LNAPL Plume

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 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 1,2-dichlorobenzene is 4.61 µg/L.

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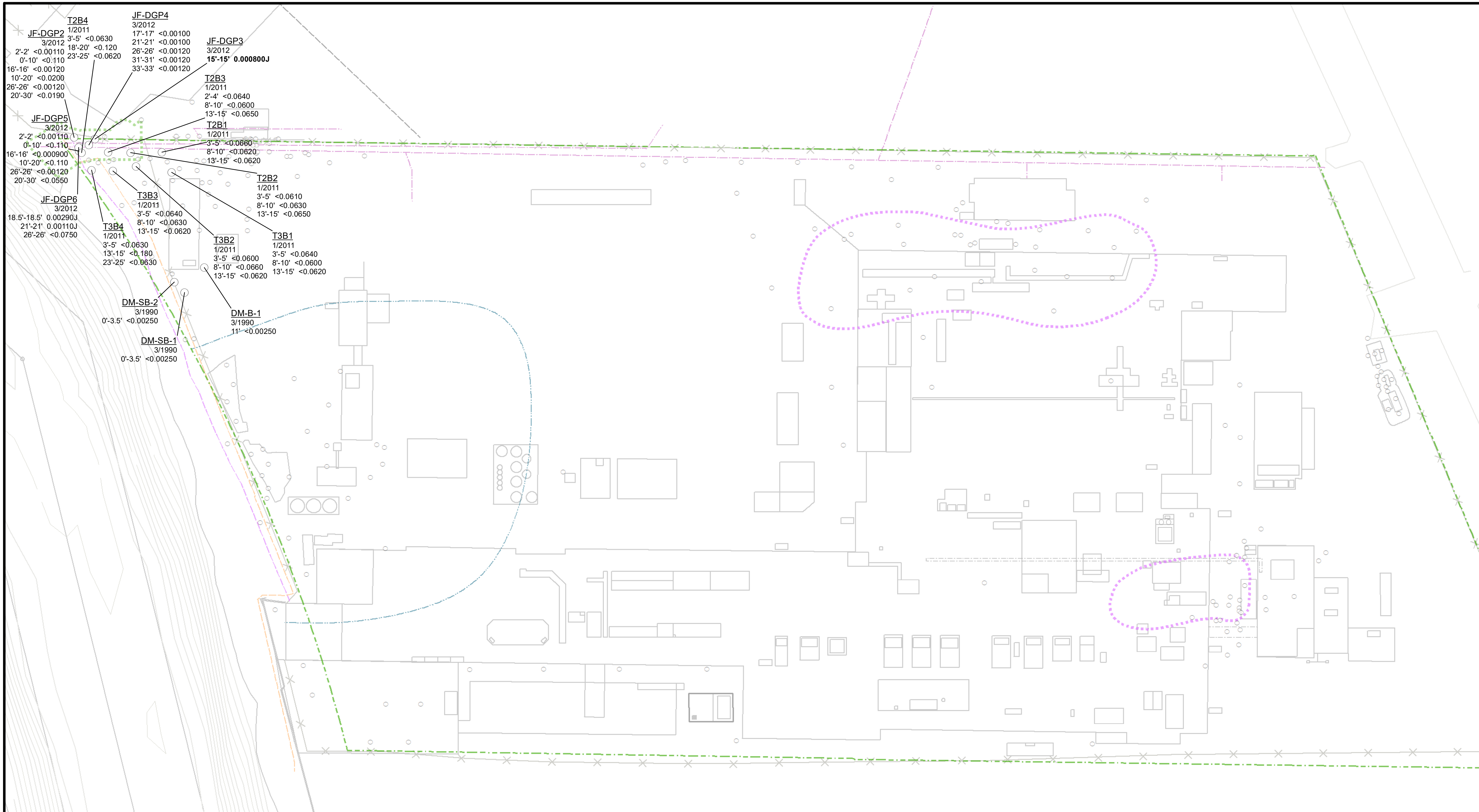
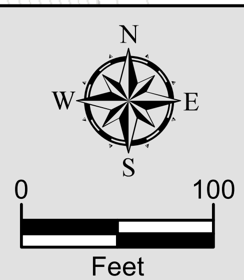
1,2-DICHLOROBENZENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-21B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL





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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. No PCUL has been established for 1,3-dichlorobenzene.

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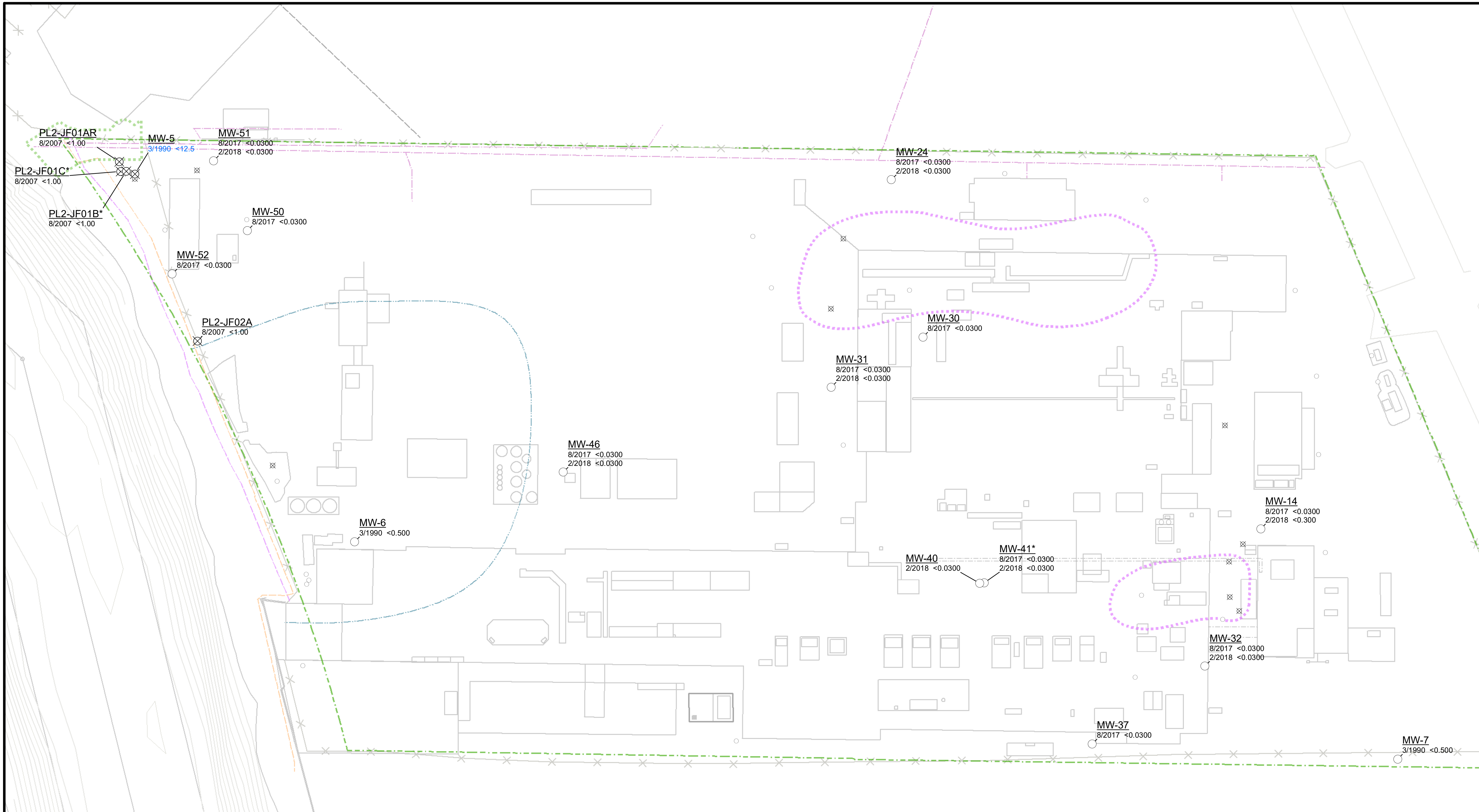
1,3-DICHLOROBENZENE IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-22A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 1,3-dichlorobenzene is 2 µg/L.

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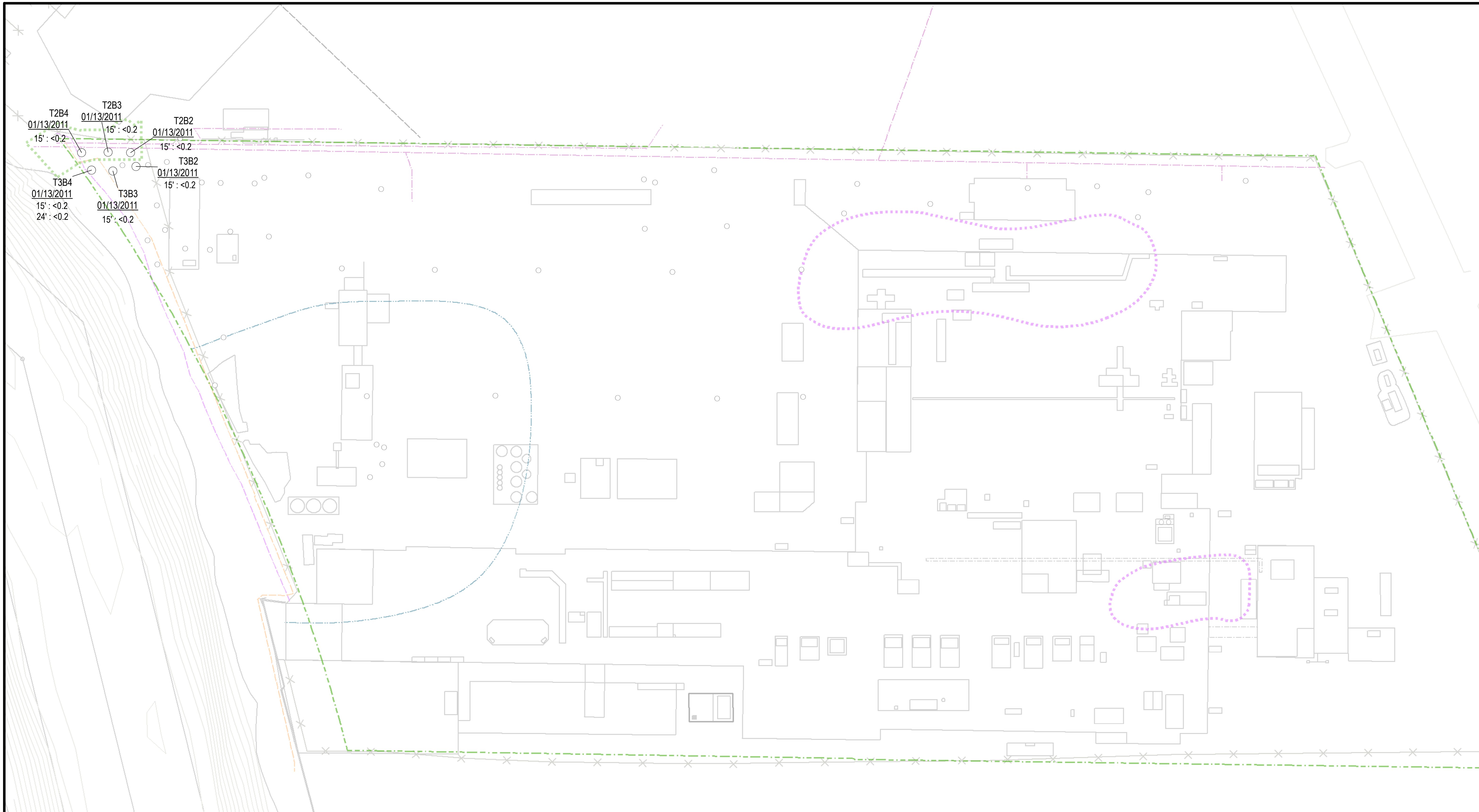
Seattle, Washington

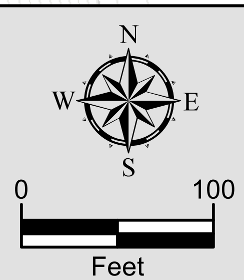
1,3-DICHLOROBENZENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-22B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL





LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for 1,3-dichlorobenzene is 2 µg/L.

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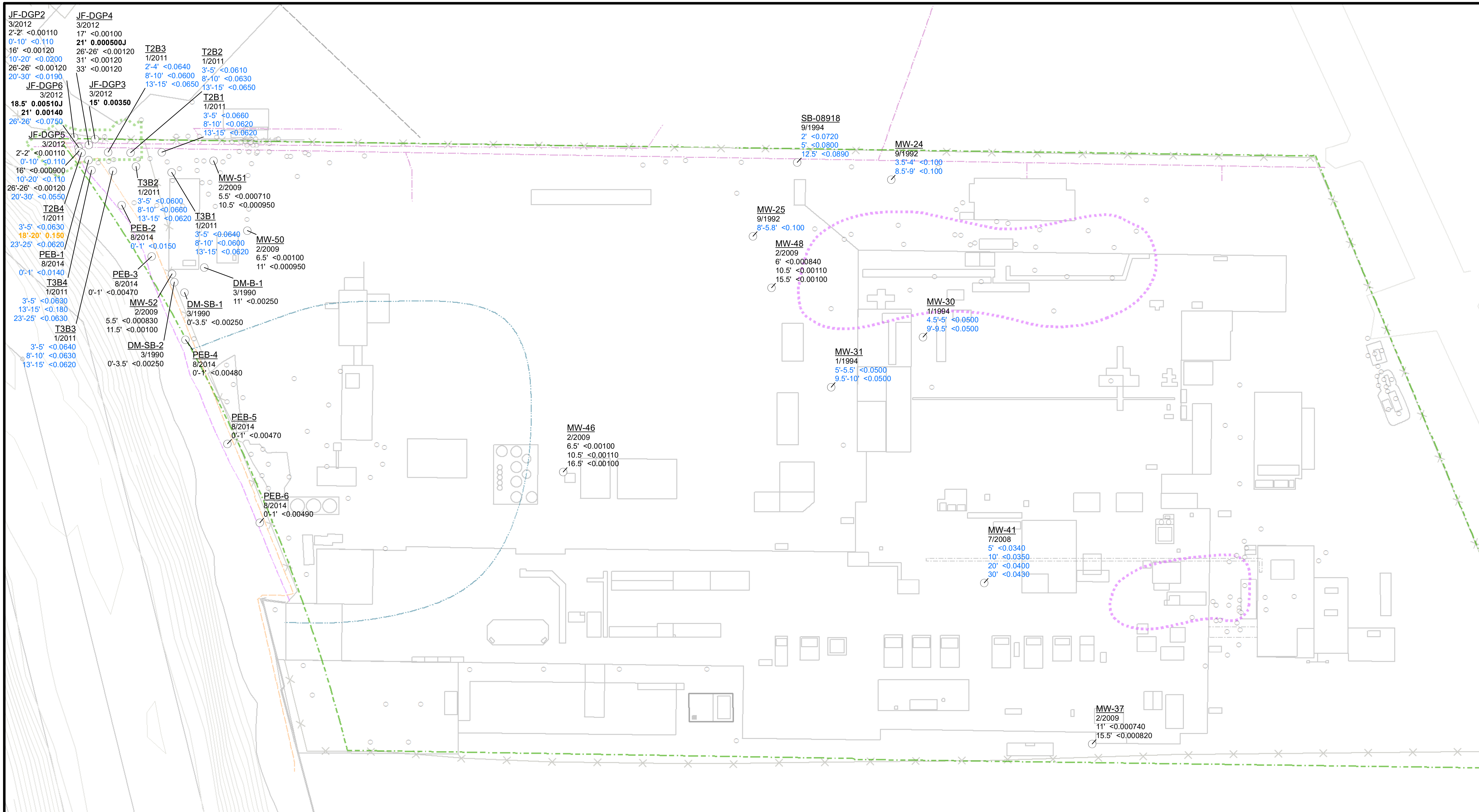
1,3-DICHLOROBENZENE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-22C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for 1,4-dichlorobenzene is 0.0081 mg/kg.

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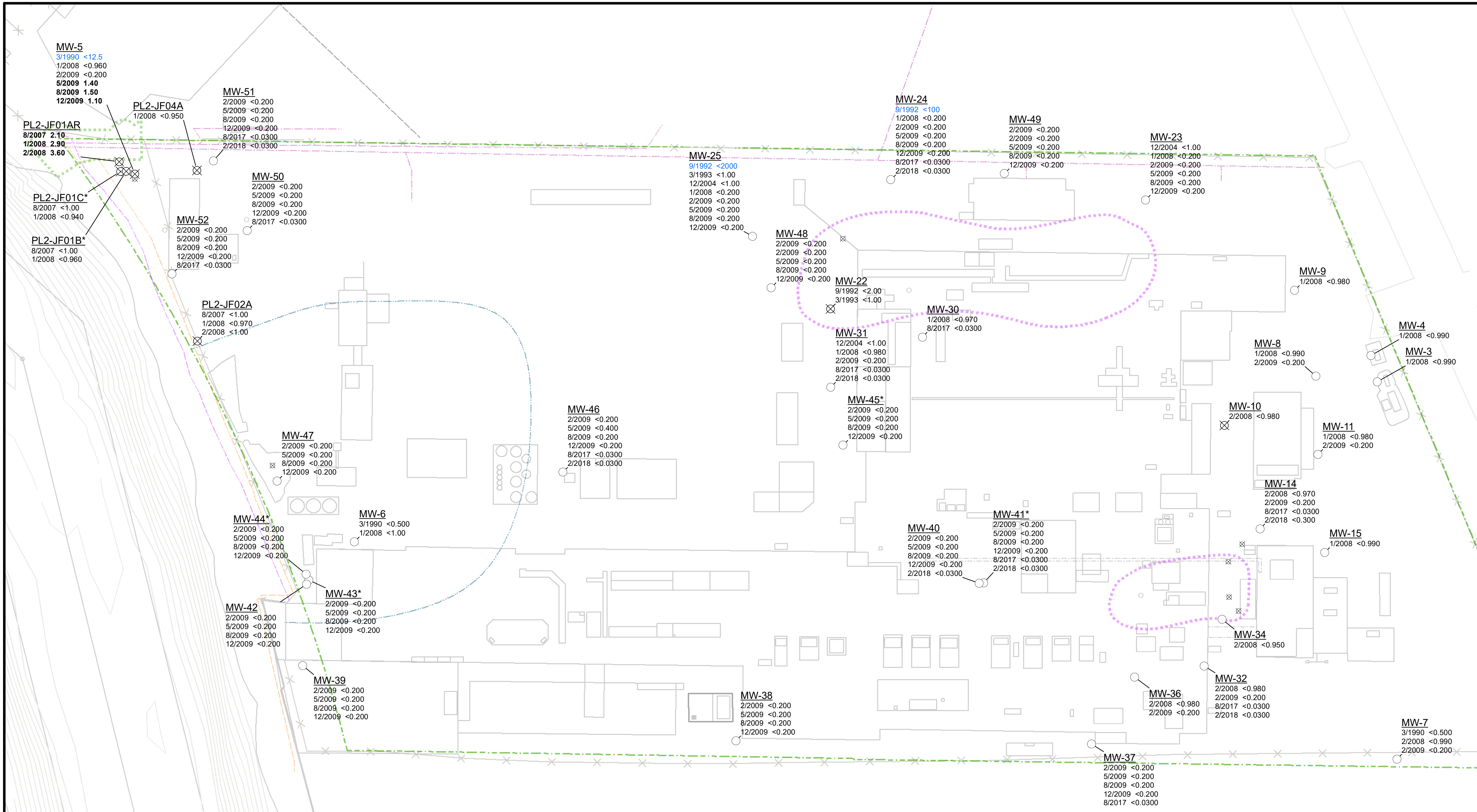
1,4-DICHLOROBENZENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-23A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 1,4-dichlorobenzene is 4.93 µg/L.

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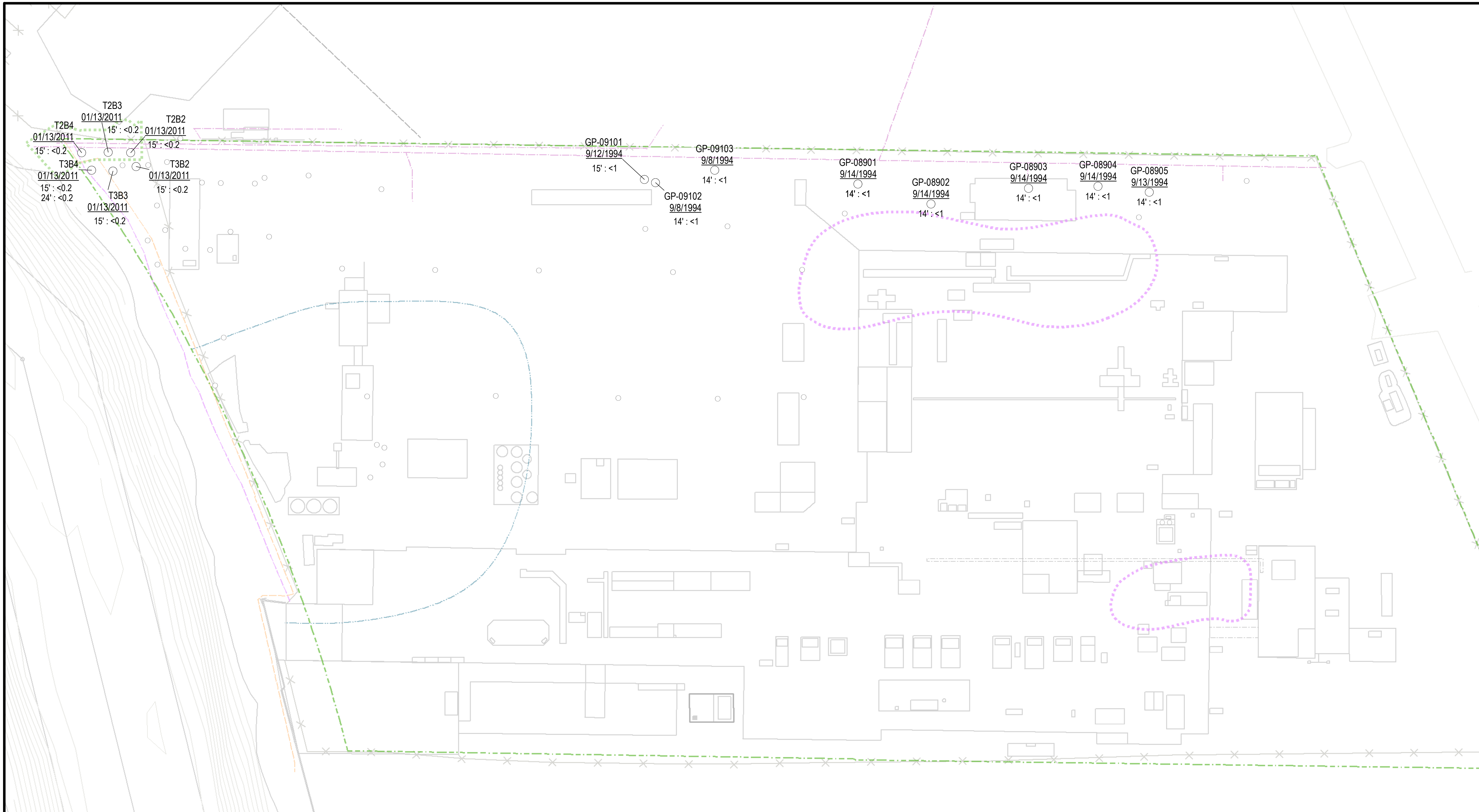
1,4-DICHLOROBENZENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-23B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for 1,4-dichlorobenzene is 4.93 µg/L.

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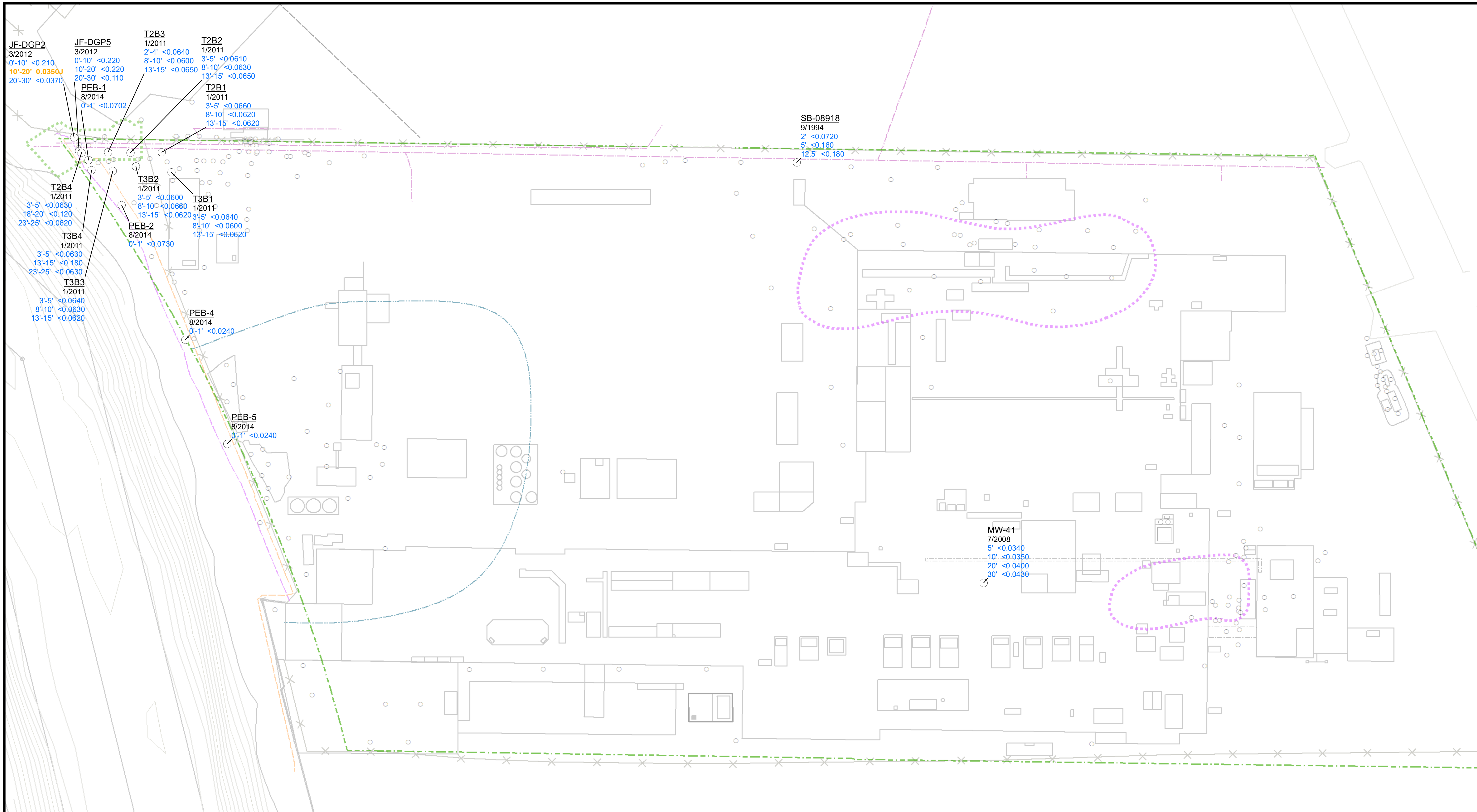
1,4-DICHLOROBENZENE IN GRAB GROUNDWATER SAMPLES

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-23C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for 2,4-dimethylphenol is 0.0031 mg/kg.

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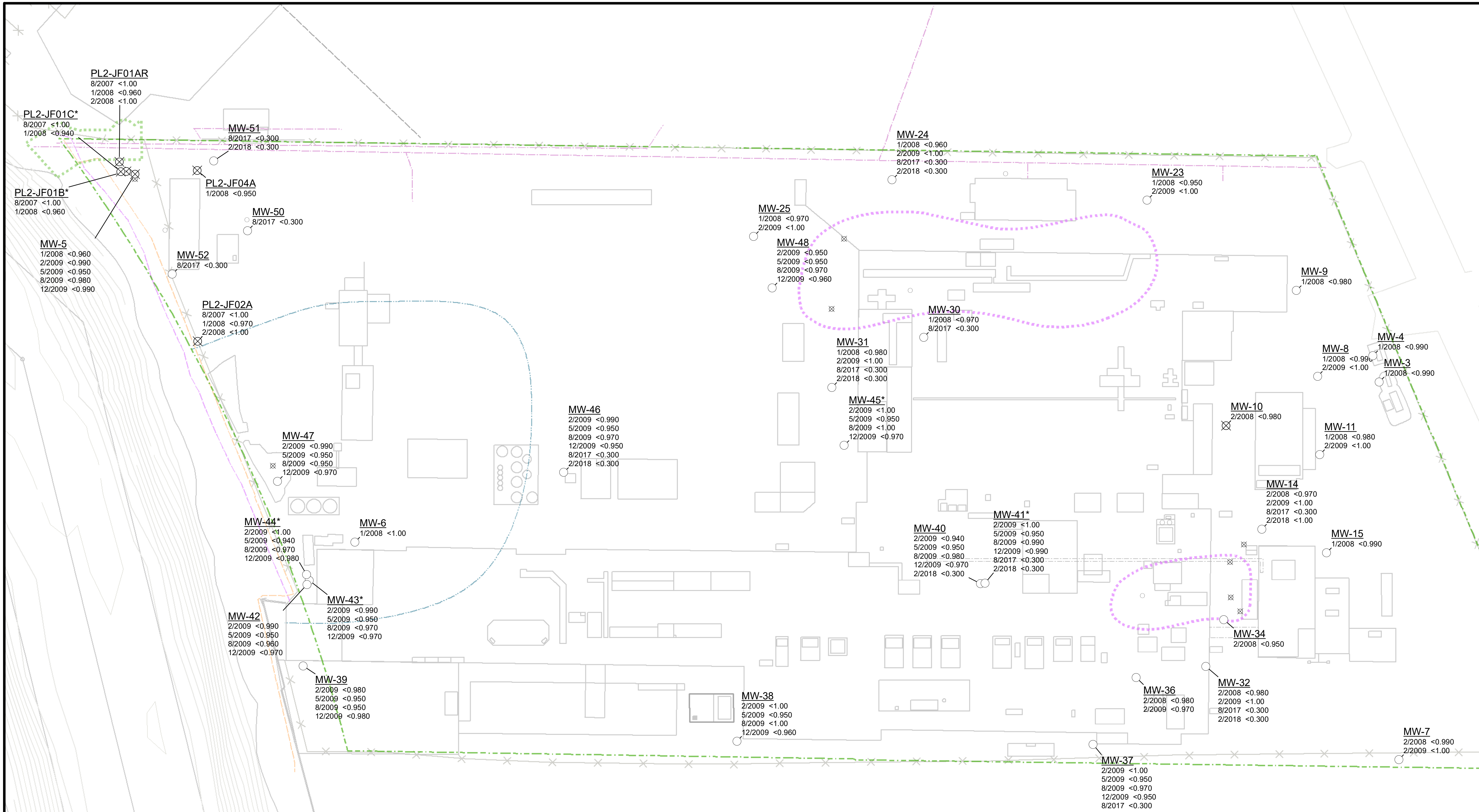
2,4-DIMETHYLPHENOL IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-24A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 2,4-dimethylphenol is 6.34 µg/L.

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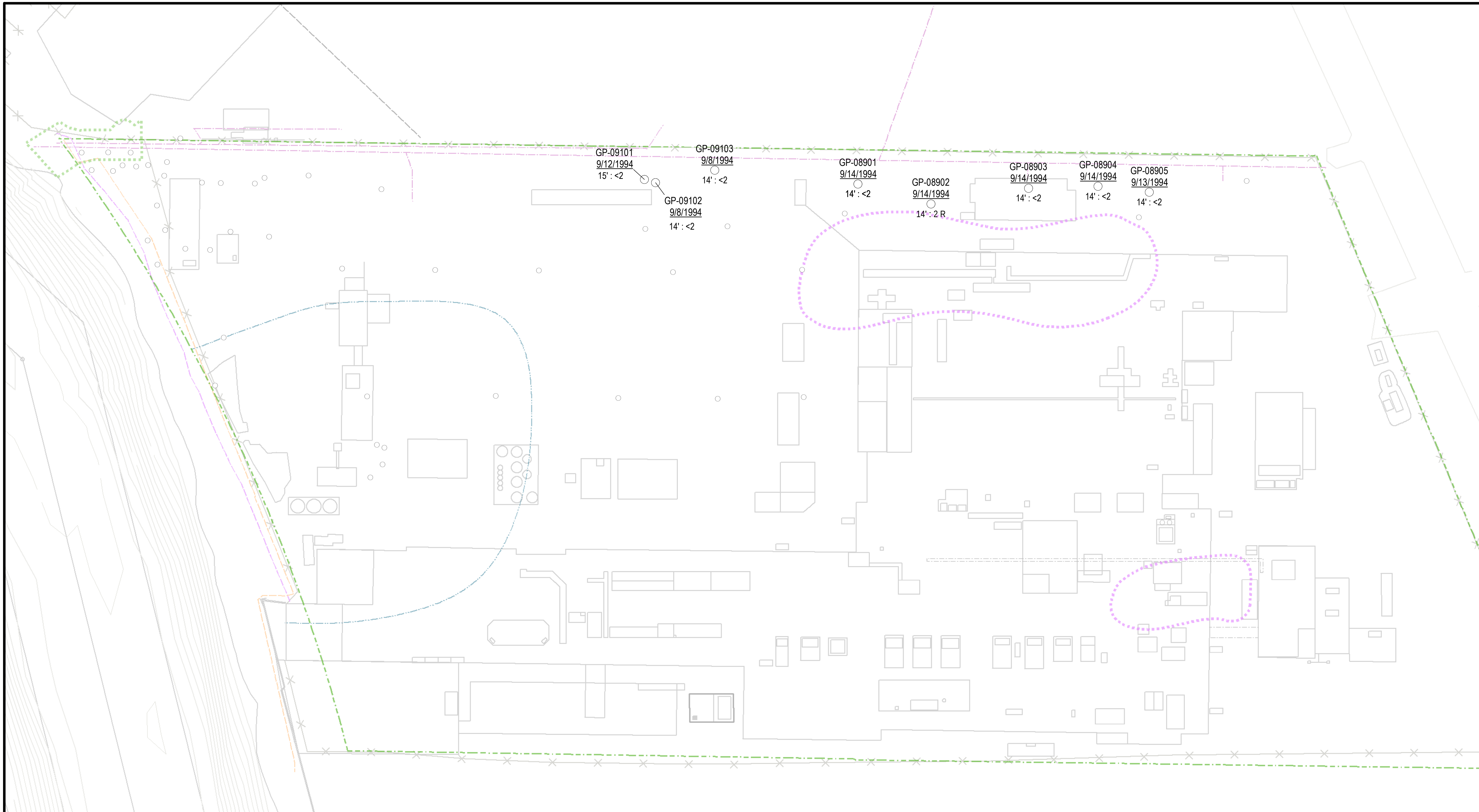
2,4-DIMETHYLPHENOL IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-24B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N W E S

0 100 Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for 2,4-dimethylphenol is 6.34 µg/L.

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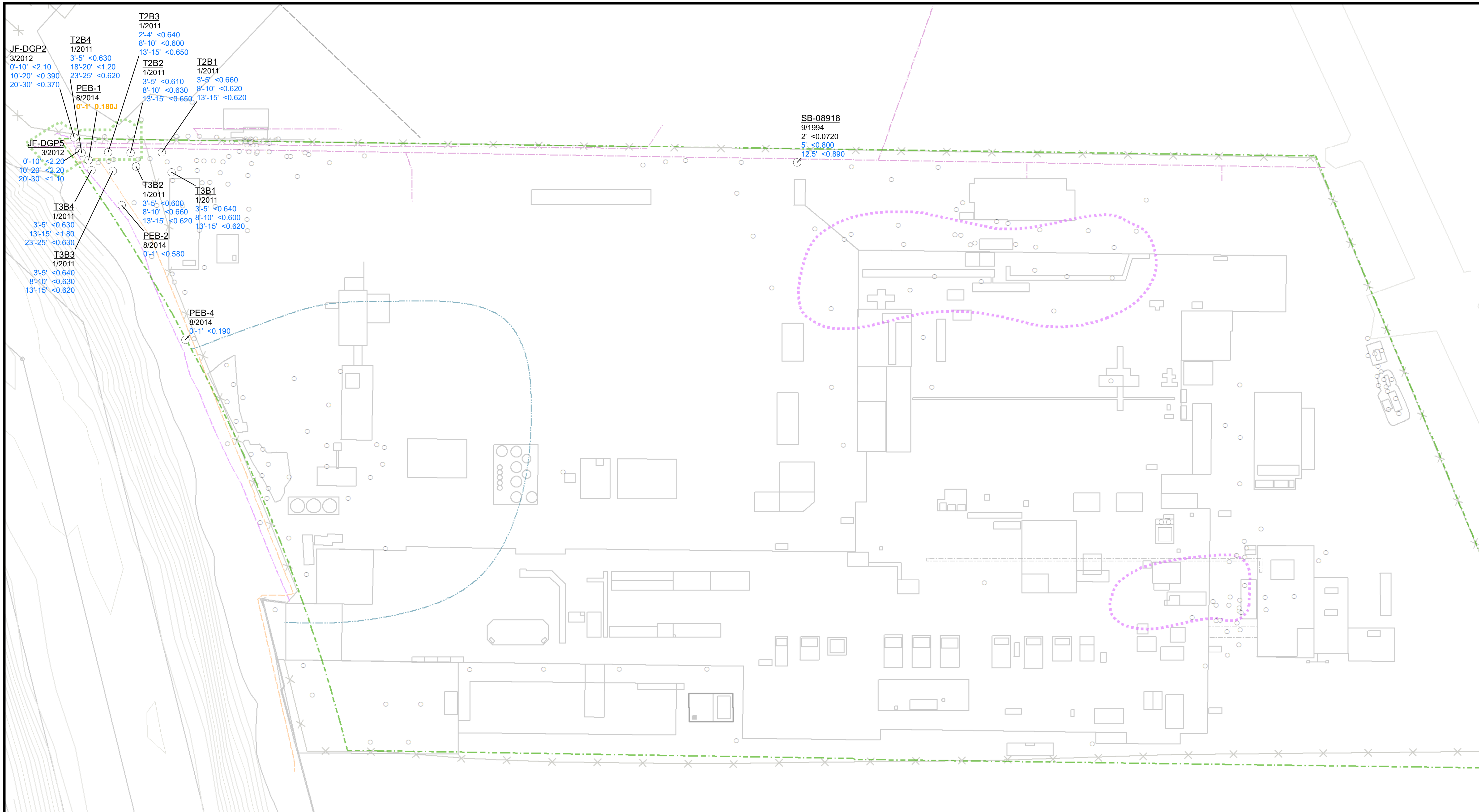
Seattle, Washington

2,4-DIMETHYLPHENOL IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-24C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

○ Sample Location

○ Sample Location w/ Analytical Result

NT = not tested

Analytic 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for benzoic acid is 0.17 mg/kg.

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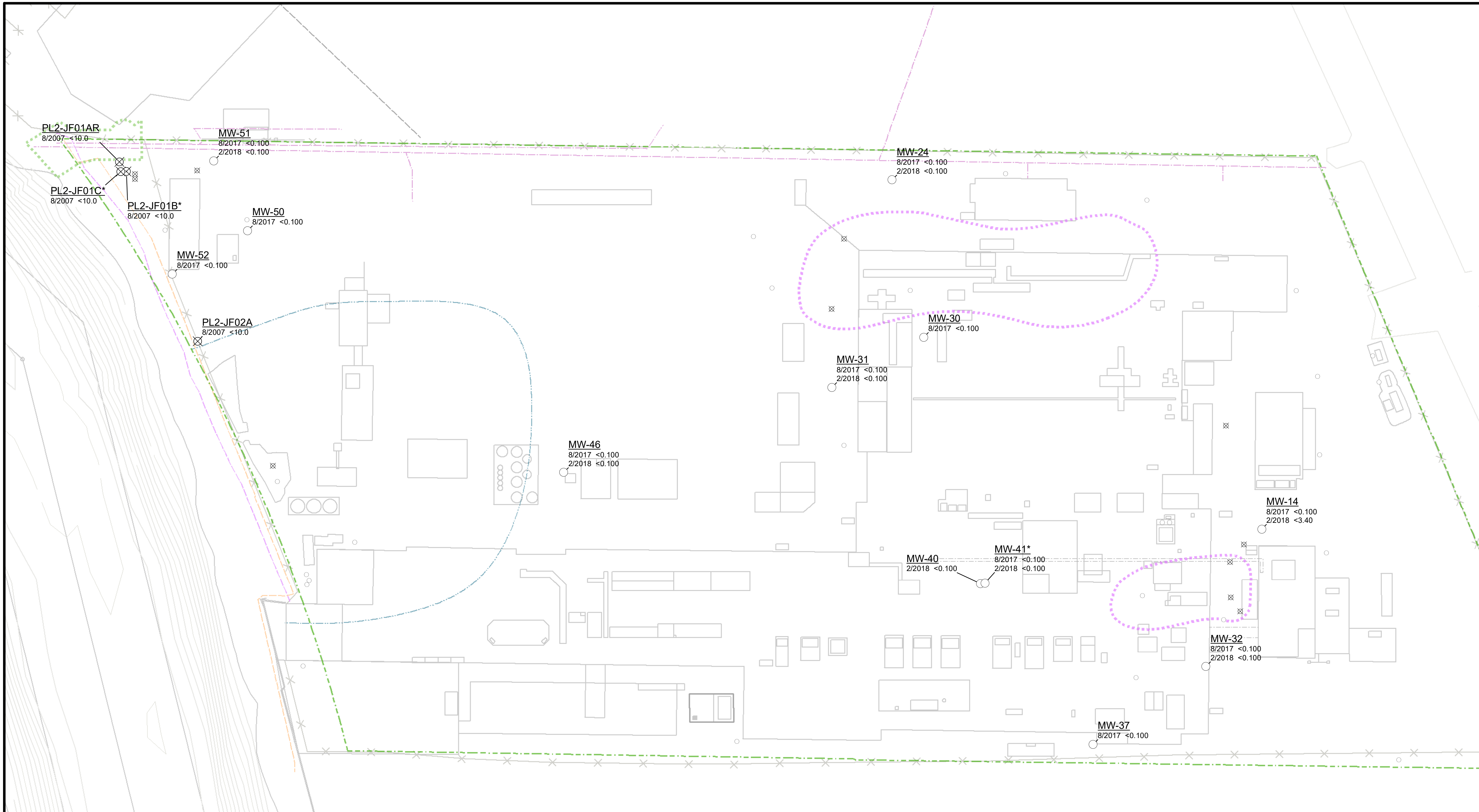
BENZOIC ACID IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-25A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location * = *Deep Aquifer*

Sample Location - Decommissioned or Inaccessible

Sample Location w/ Analytical Result

Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
Approximate Area LNAPL Plume
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 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 benzoic acid is 589.3 µg/L.

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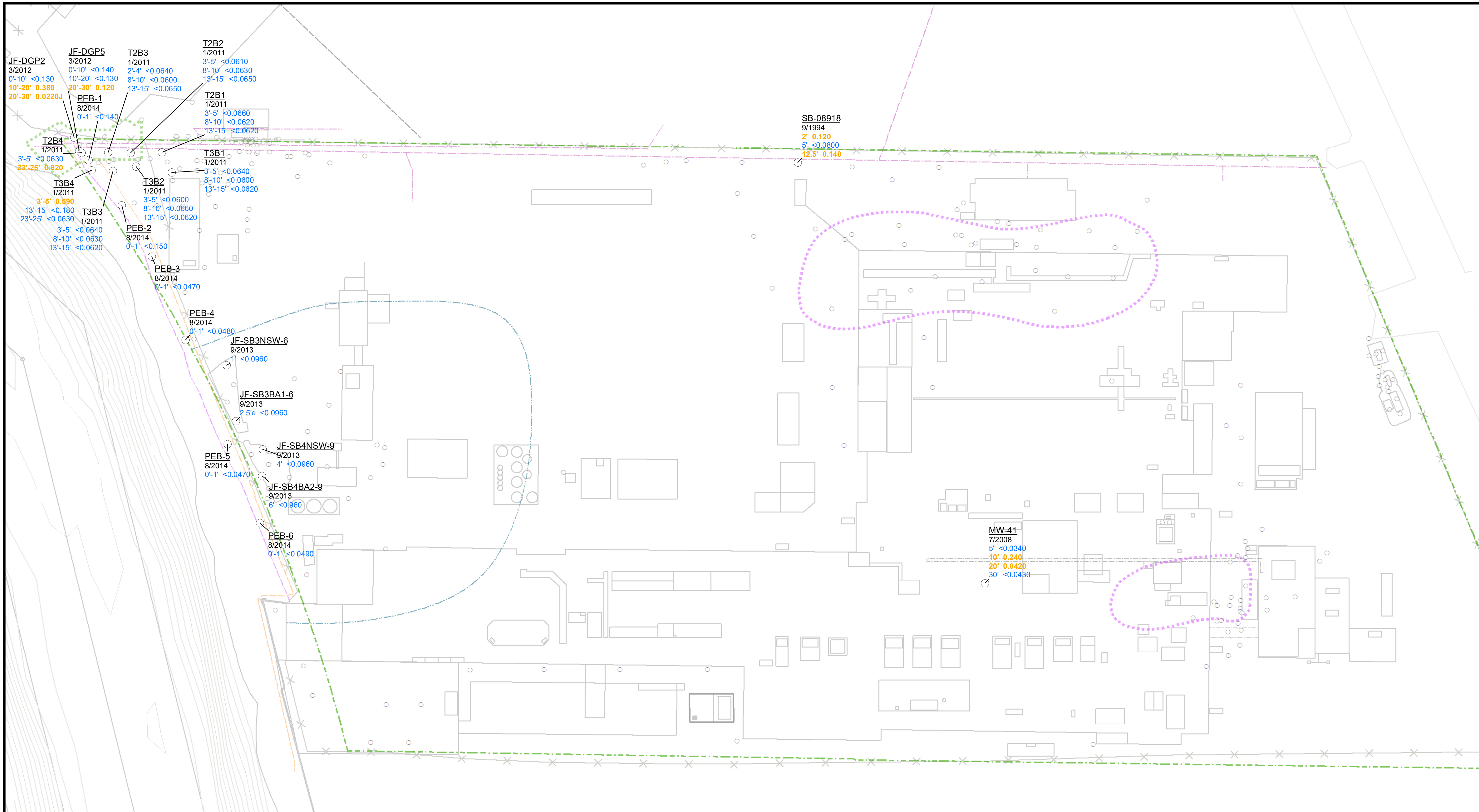
BENZOIC ACID IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-25B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for bis(2-ethylhexyl) phthalate is 0.0051 mg/kg.

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Seattle, Washington

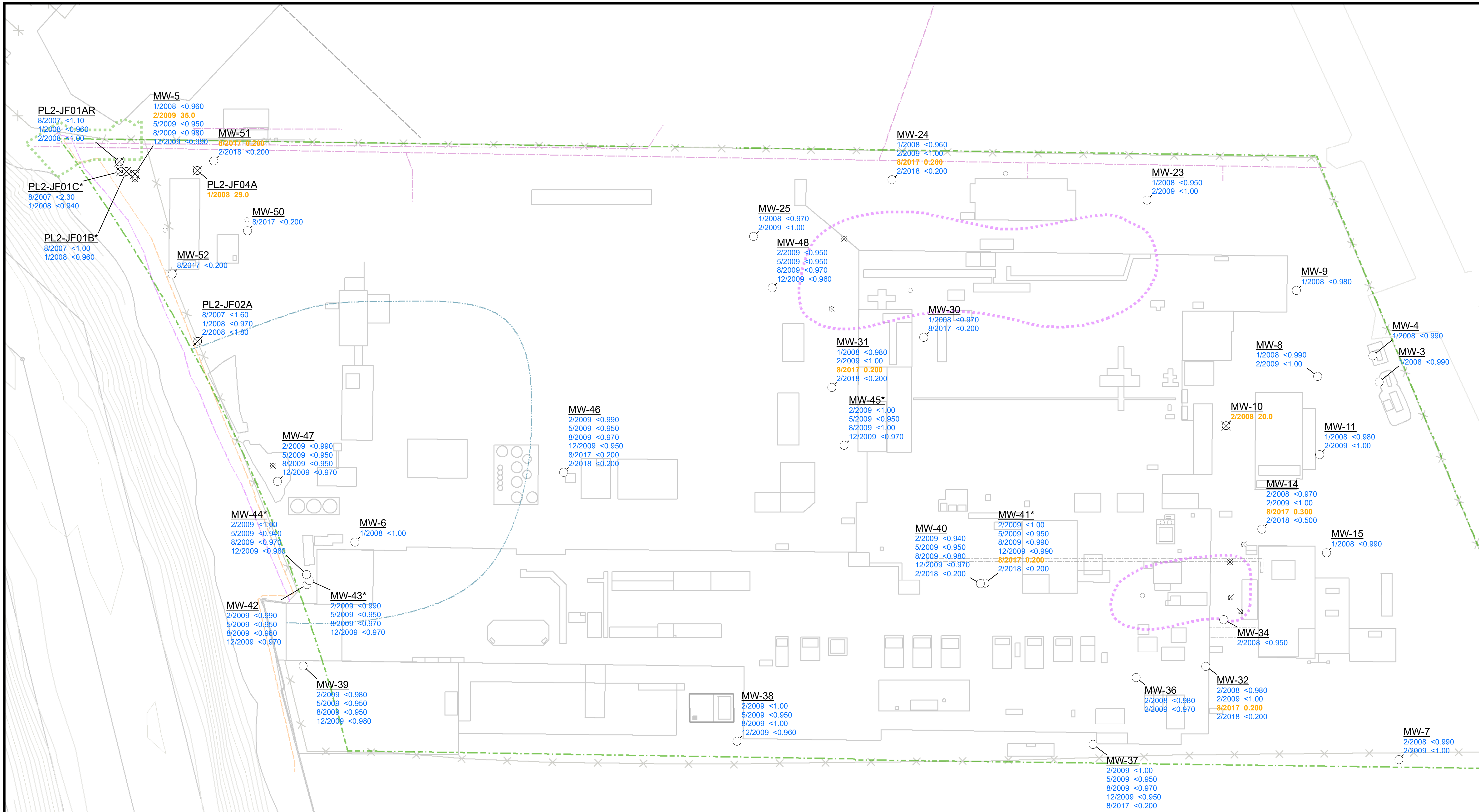
BIS(2-ETHYLHEXYL) PHTHALATE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-26A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

○	Sample Location * = *Deep Aquifer*
⊠	Sample Location - Decommissioned or Inaccessible
○	Sample Location w/ Analytical Result
⊠	Sample Location w/ Analytical & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 bis(2-ethylhexyl) phthalate is 0.046 µg/L.

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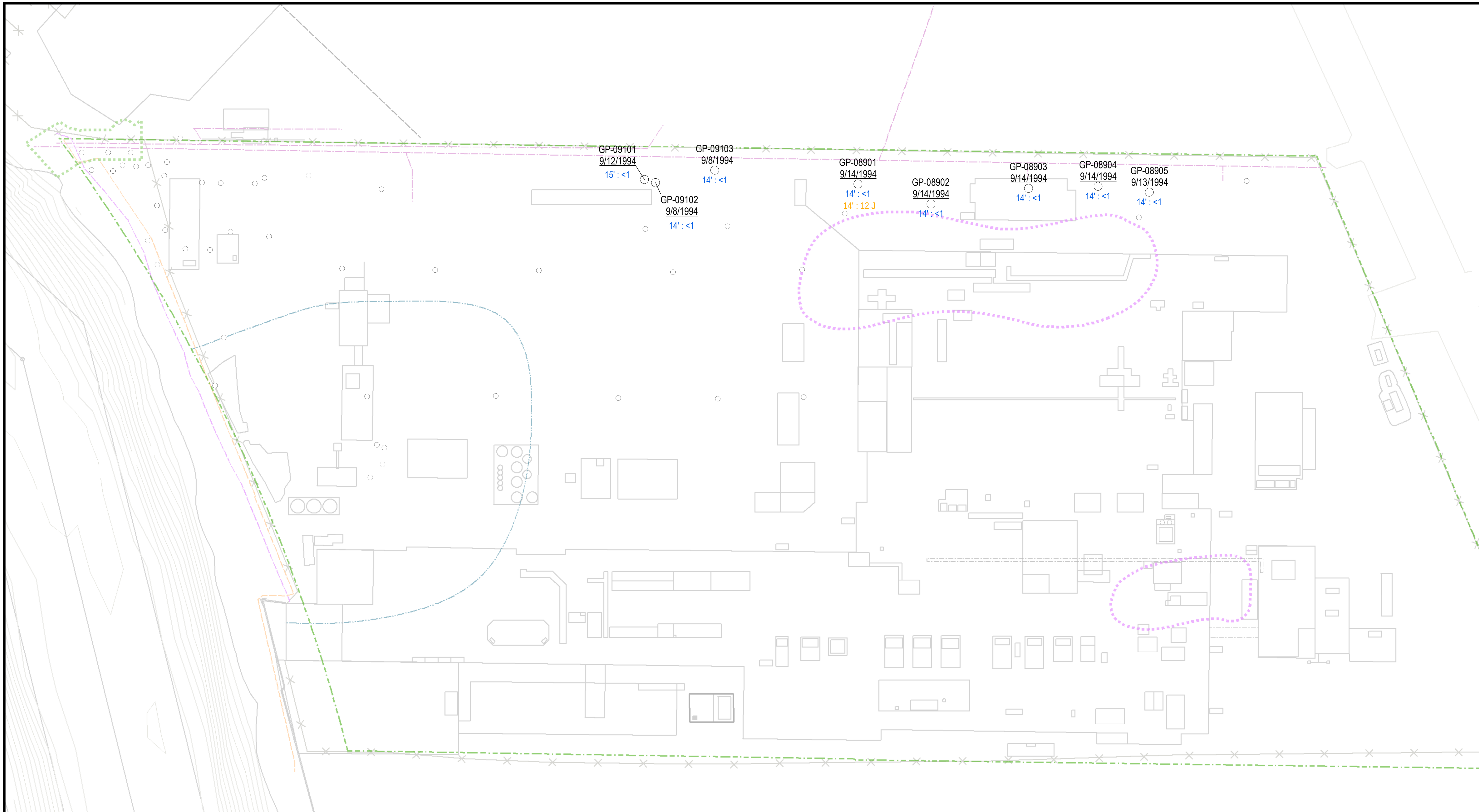
Seattle, Washington

BIS(2-ETHYLHEXYL) PHTHALATE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-26B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



LEGEND

Sample Location

Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for bis(2-ethylhexyl) phthalate is 0.046 µg/L.

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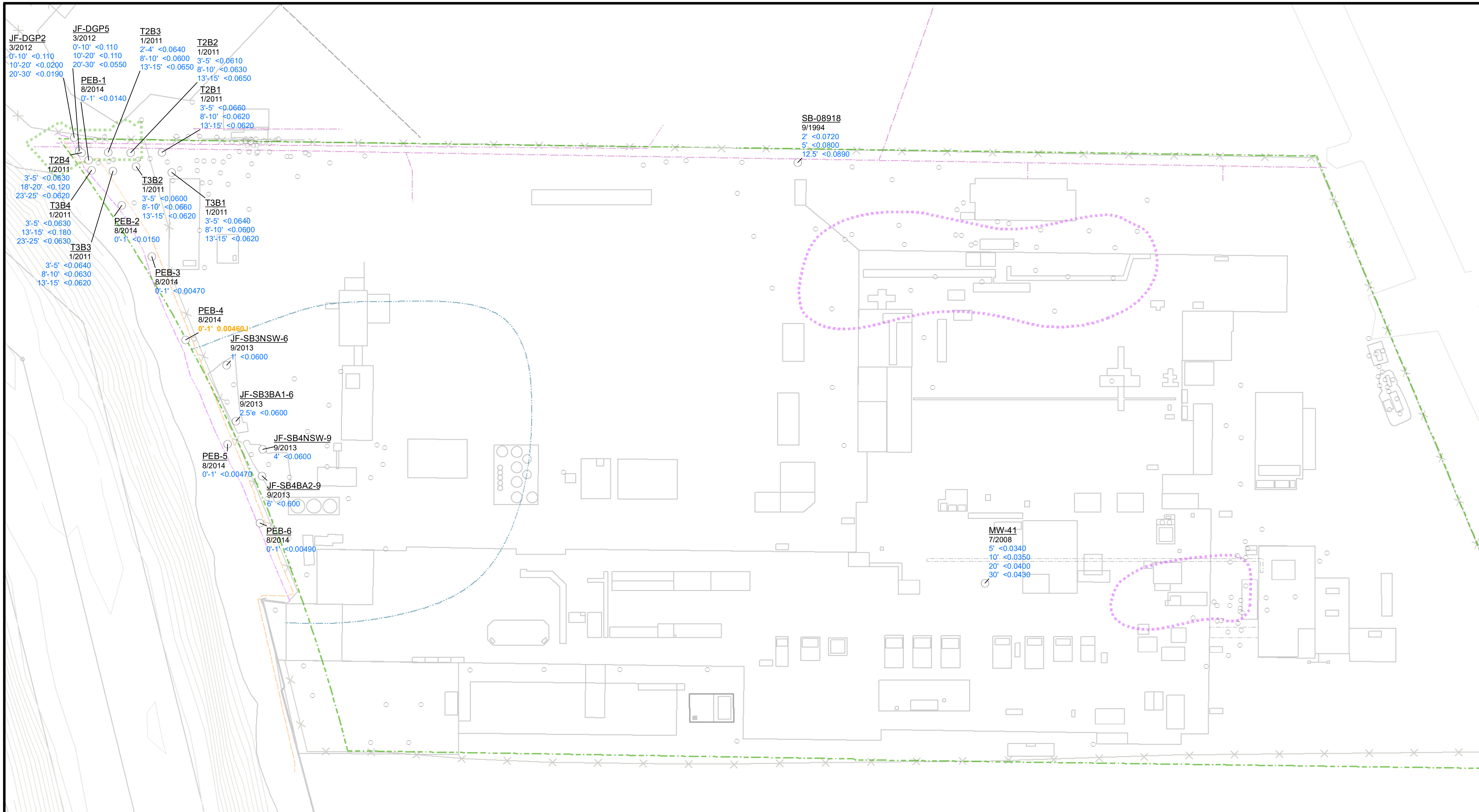
Seattle, Washington

BIS(2-ETHYLHEXYL) PHTHALATE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-26C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for butyl benzyl phthalate is 0.00018 mg/kg.

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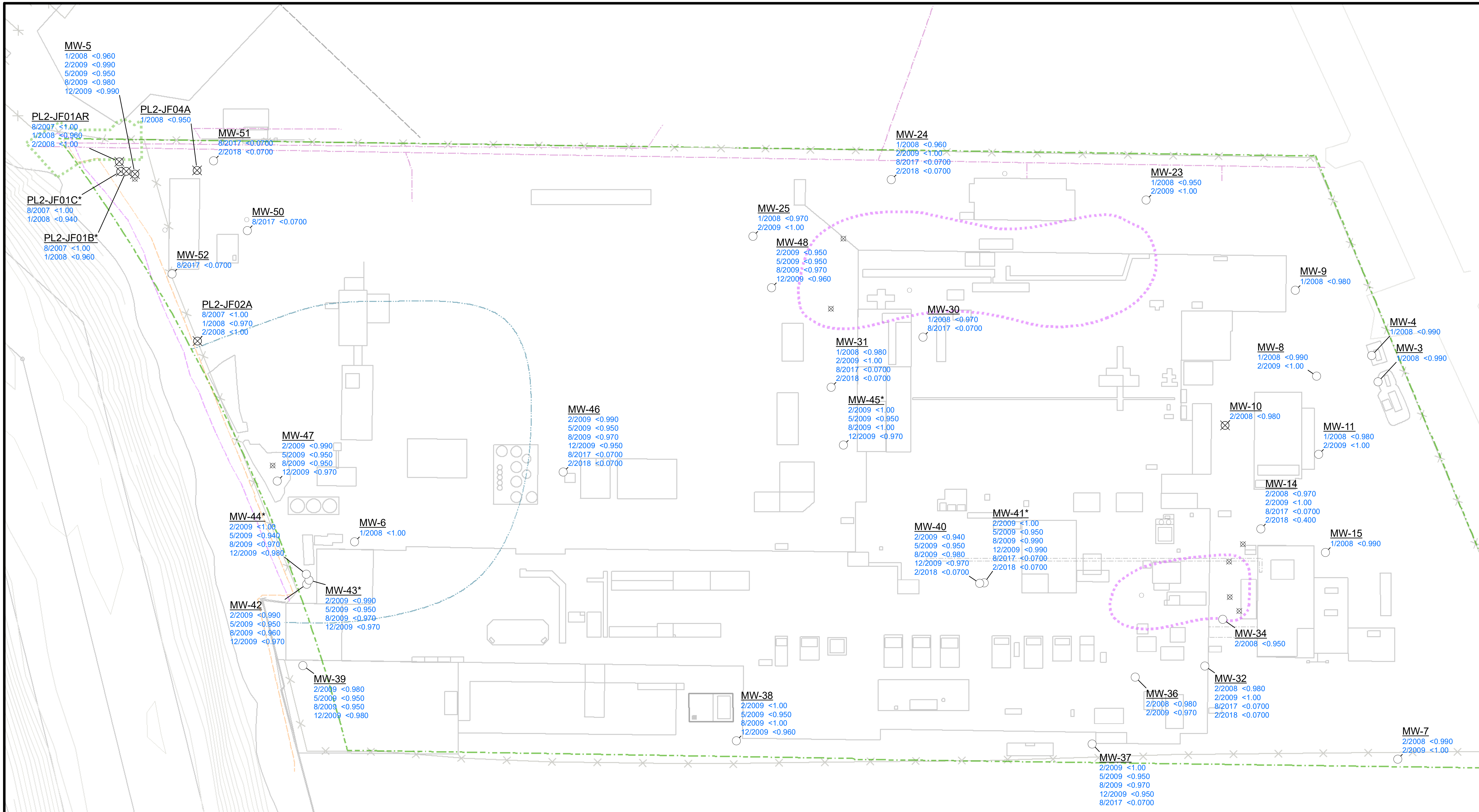
BUTYL BENZYL PHTHALATE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-27A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



LEGEND

- Sample Location — * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 butyl benzyl phthalate is 0.013 µg/L.

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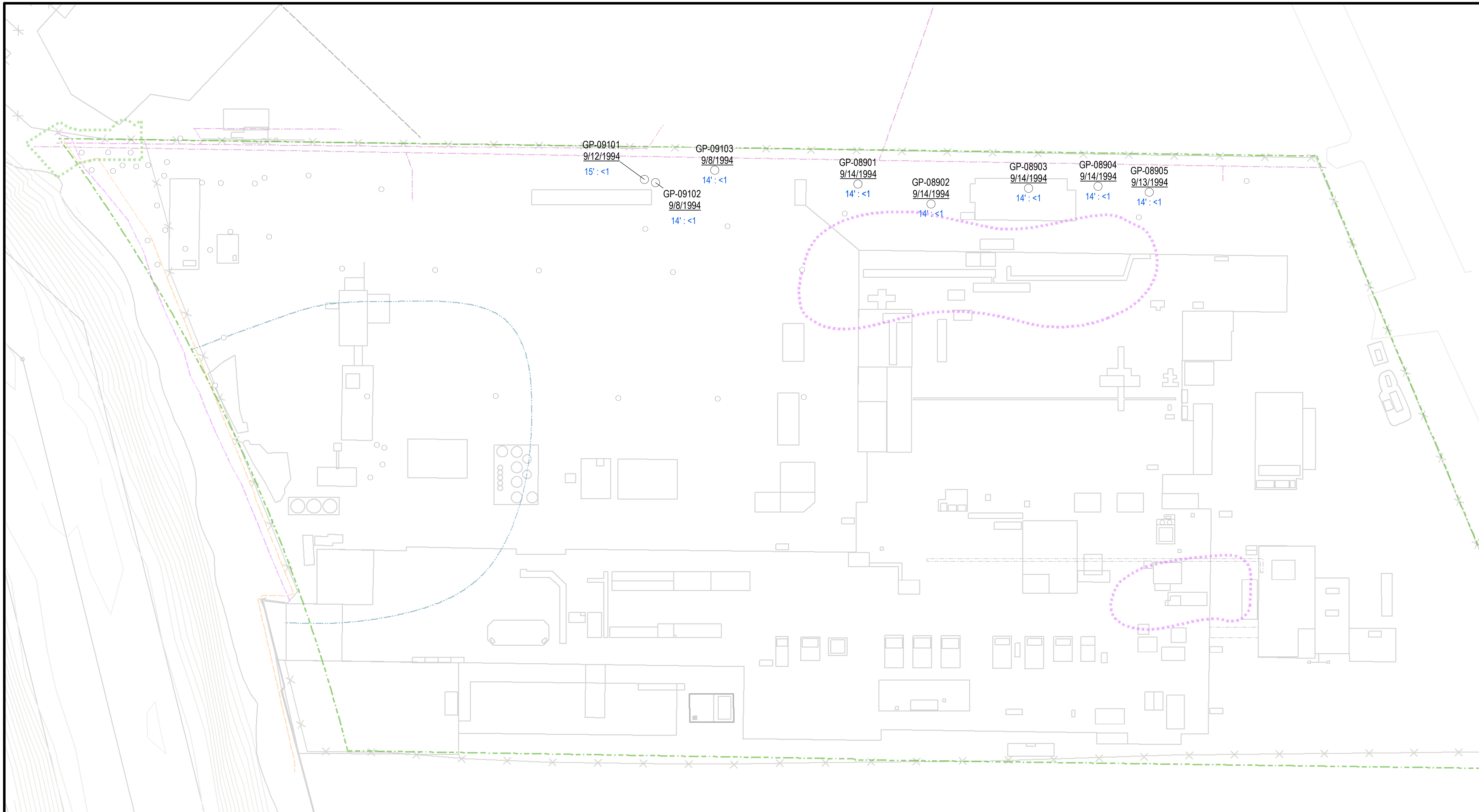
BUTYL BENZYL PHTHALATE IN GROUNDWATER

March 2020 — 21-1-12596-013

SHANNON & WILSON — **FIG. B-27B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location

Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for butyl benzyl phthalate is 0.013 µg/L.

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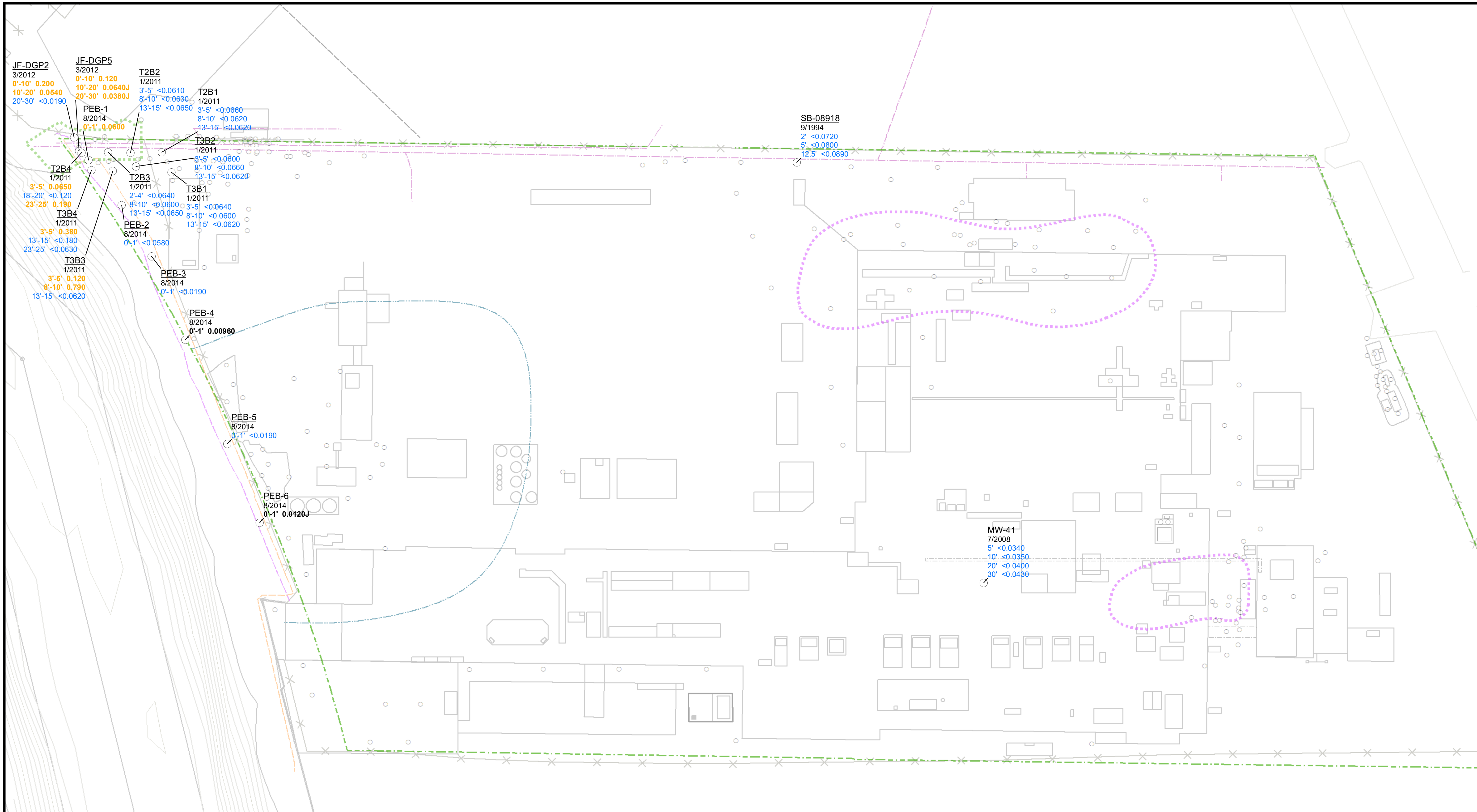
Seattle, Washington

BUTYL BENZYL PHTHALATE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-27C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for dibutyl phthalate is 0.015 mg/kg.

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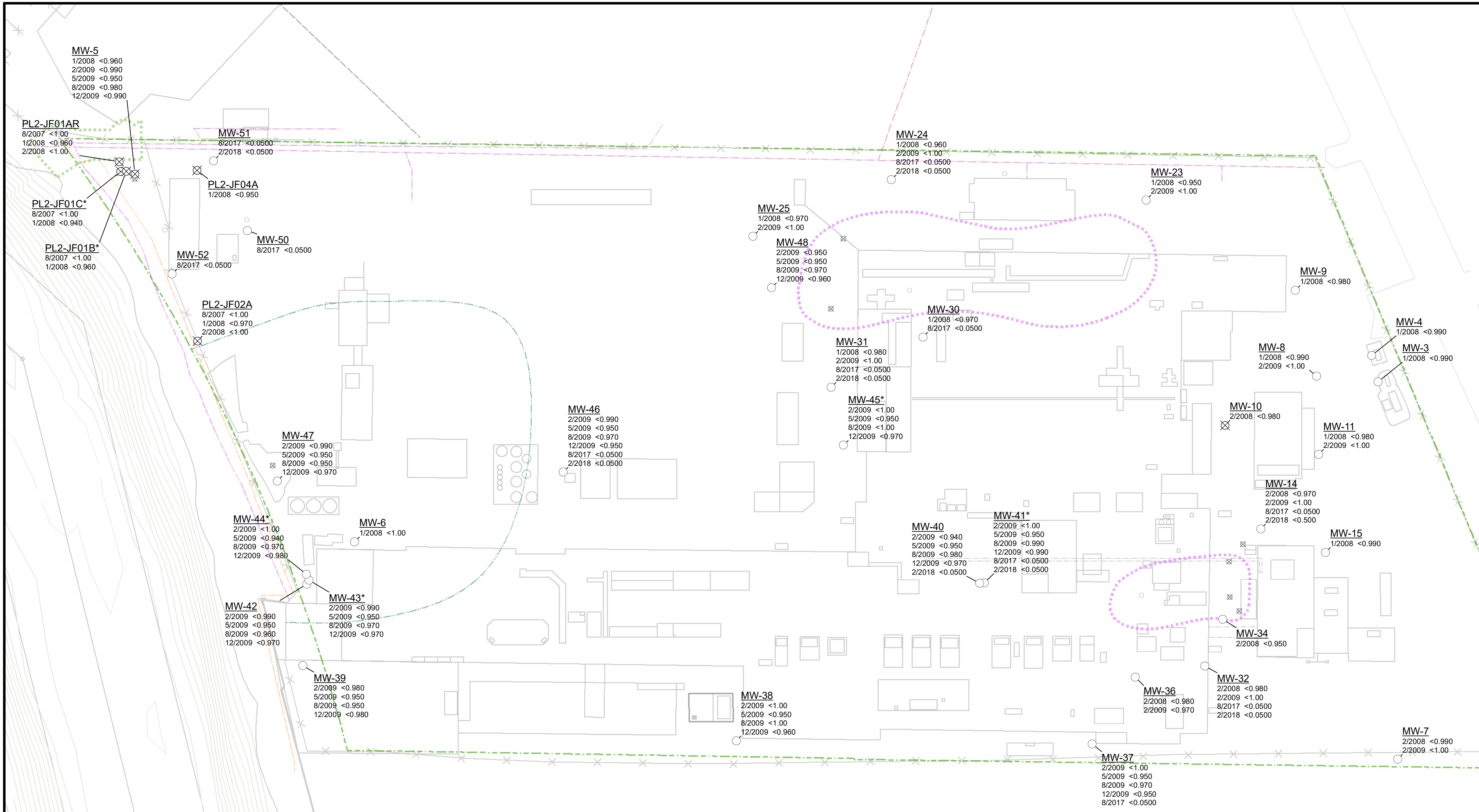
DIBUTYL PHTHALATE IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | **FIG. B-28A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 dibutyl phthalate is 8 µg/L.

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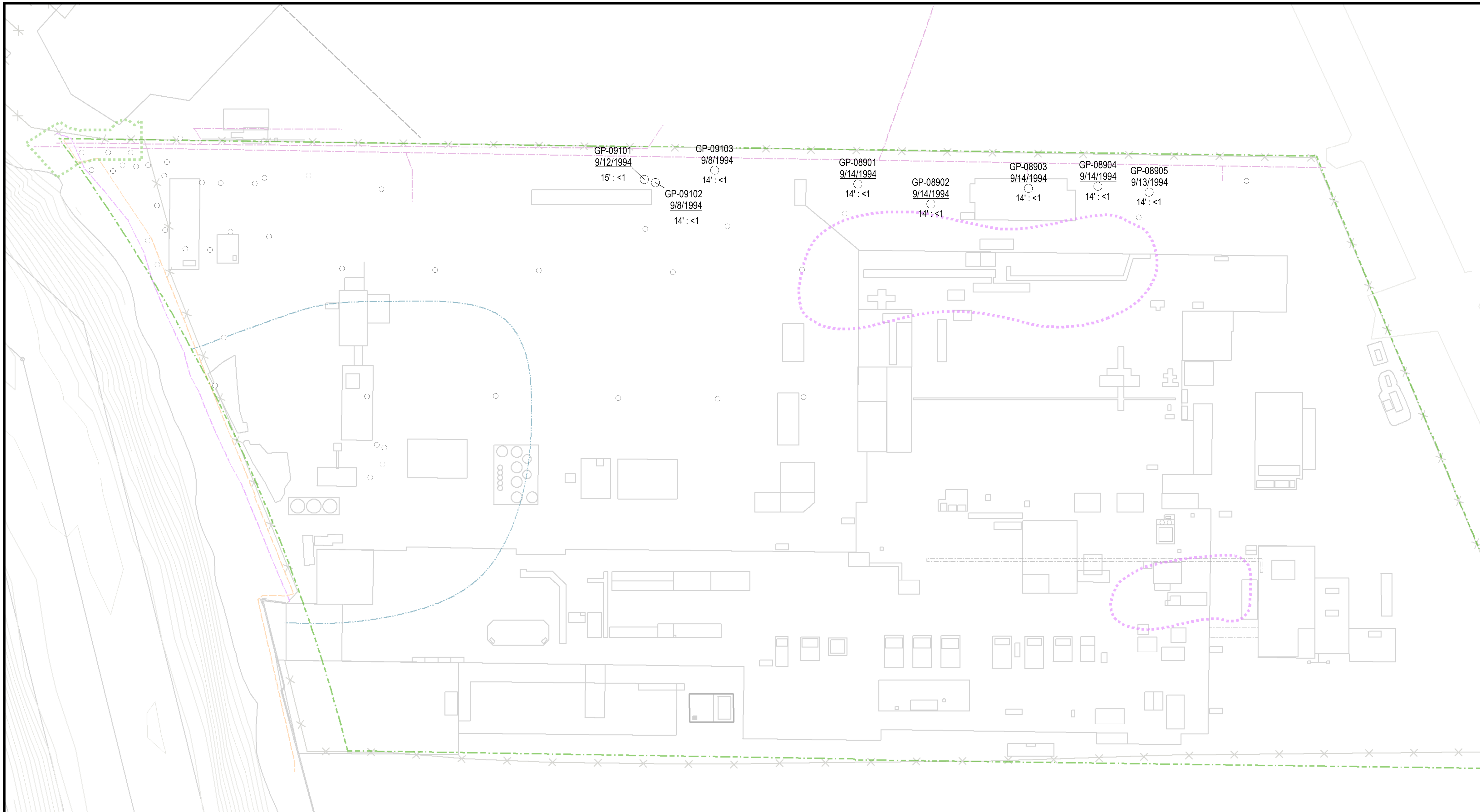
DIBUTYL PHTHALATE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-28B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location

Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (μg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for dibutyl phthalate is 8 μg/L.

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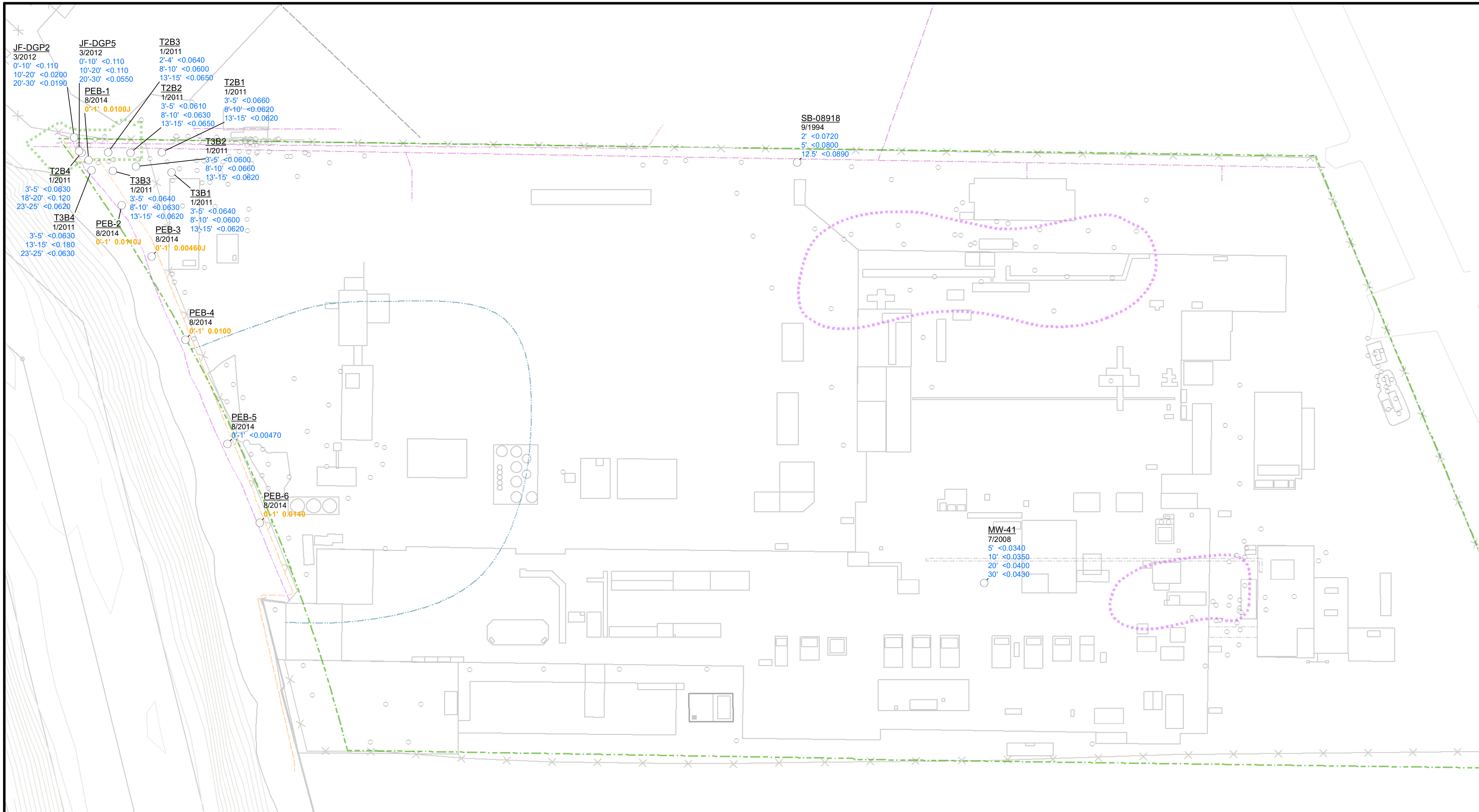
DIBUTYL PHTHALATE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-28C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for n-nitrosodiphenylamine is 0.0011 mg/kg.

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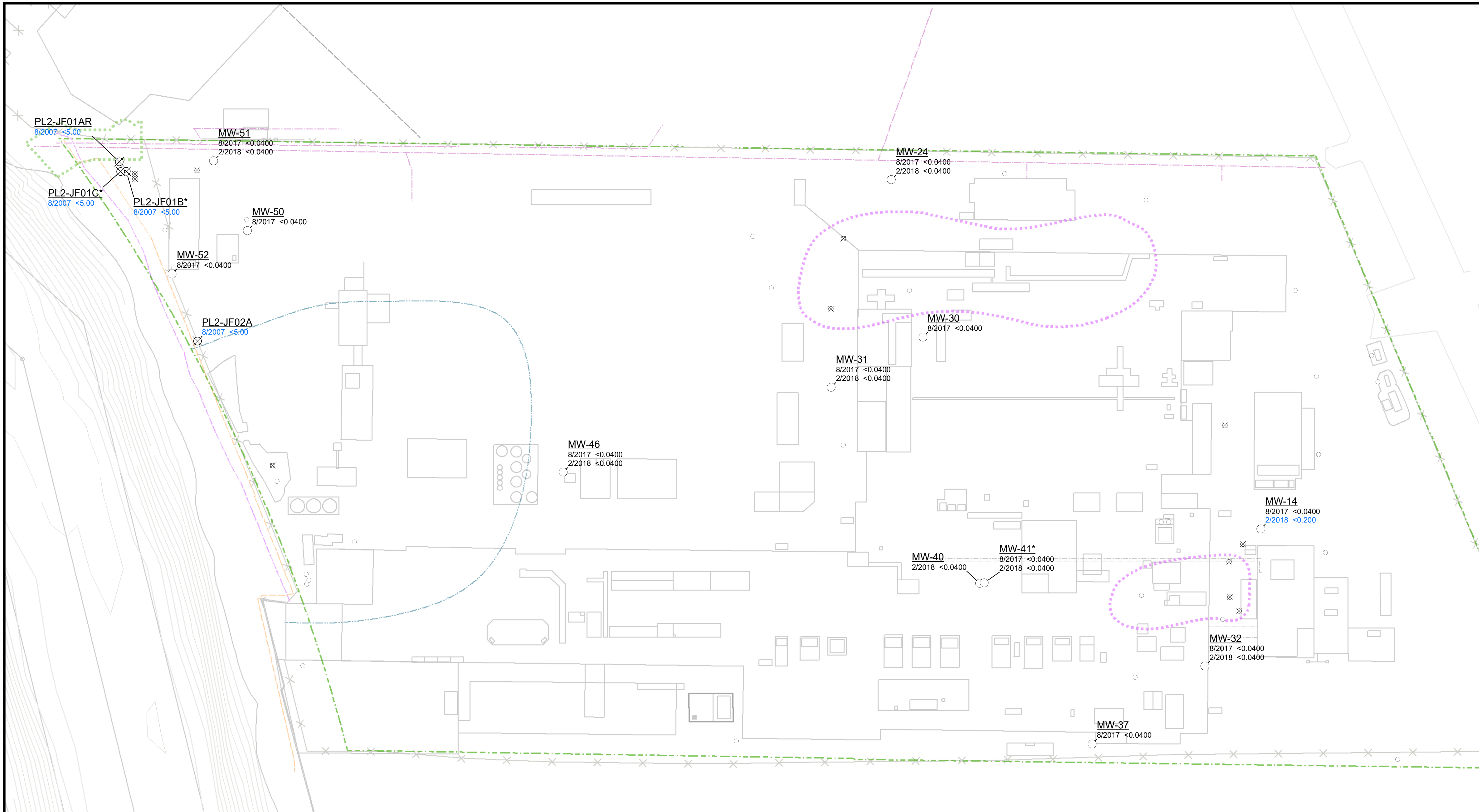
N-NITROSODIPHENYLAMINE IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-29A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 n-nitrosodiphenylamine is 0.69 µg/L.

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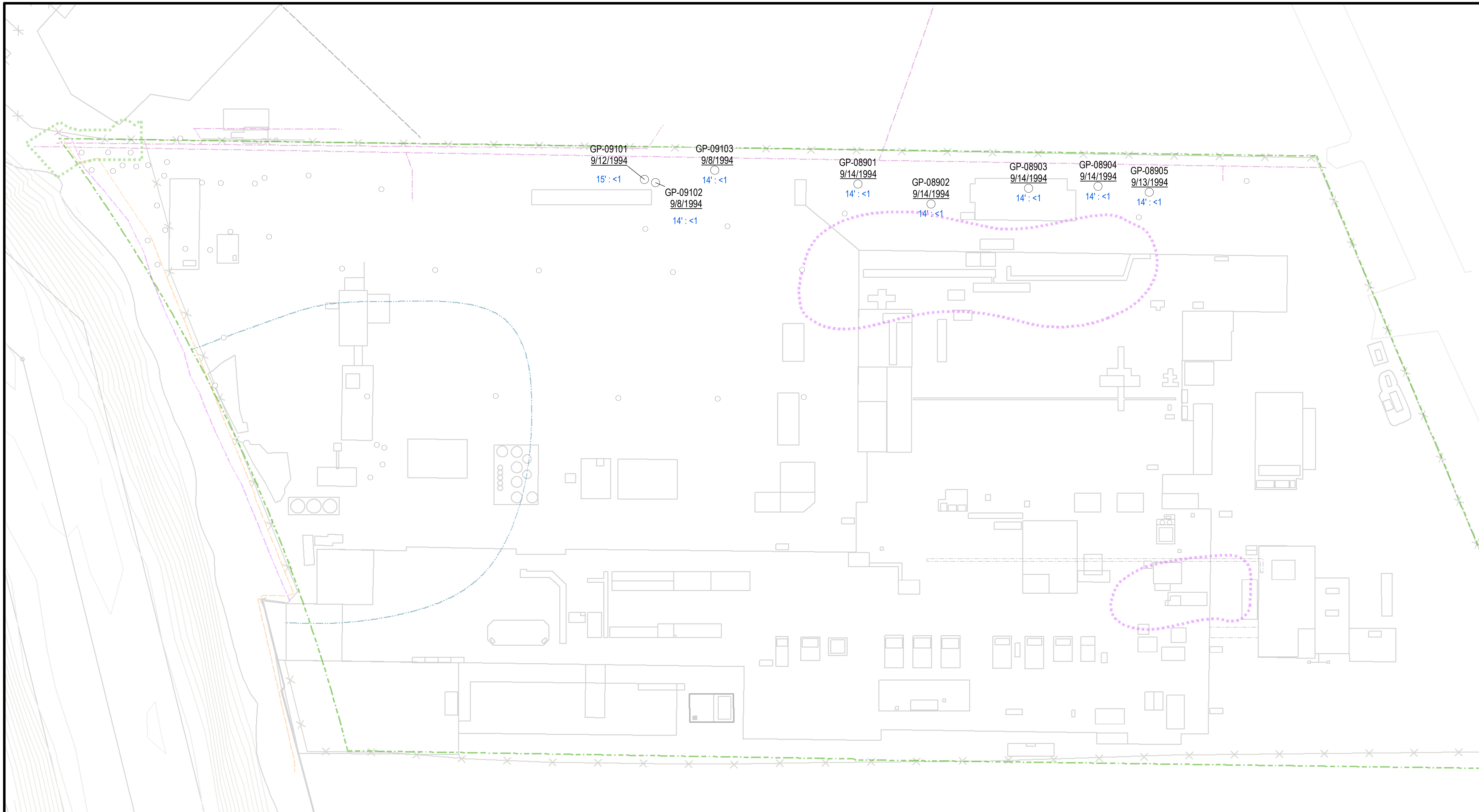
N-NITROSODIPHENYLAMINE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-29B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S

0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (μg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for n-nitrosodiphenylamine is 0.69 μg/L.

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Seattle, Washington

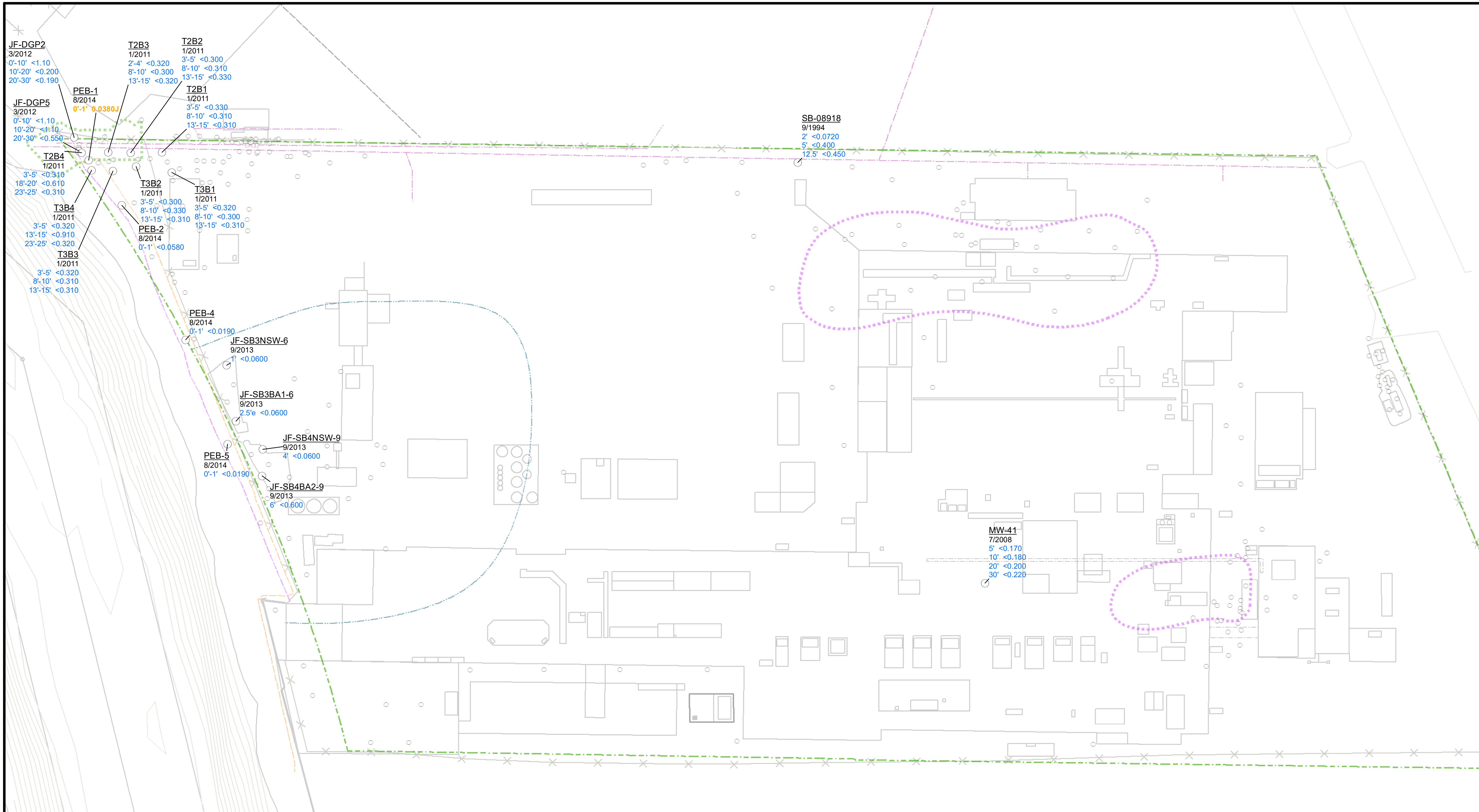
N-NITROSODIPHENYLAMINE IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-29C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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

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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for pentachlorophenol is 0.0000018 mg/kg.

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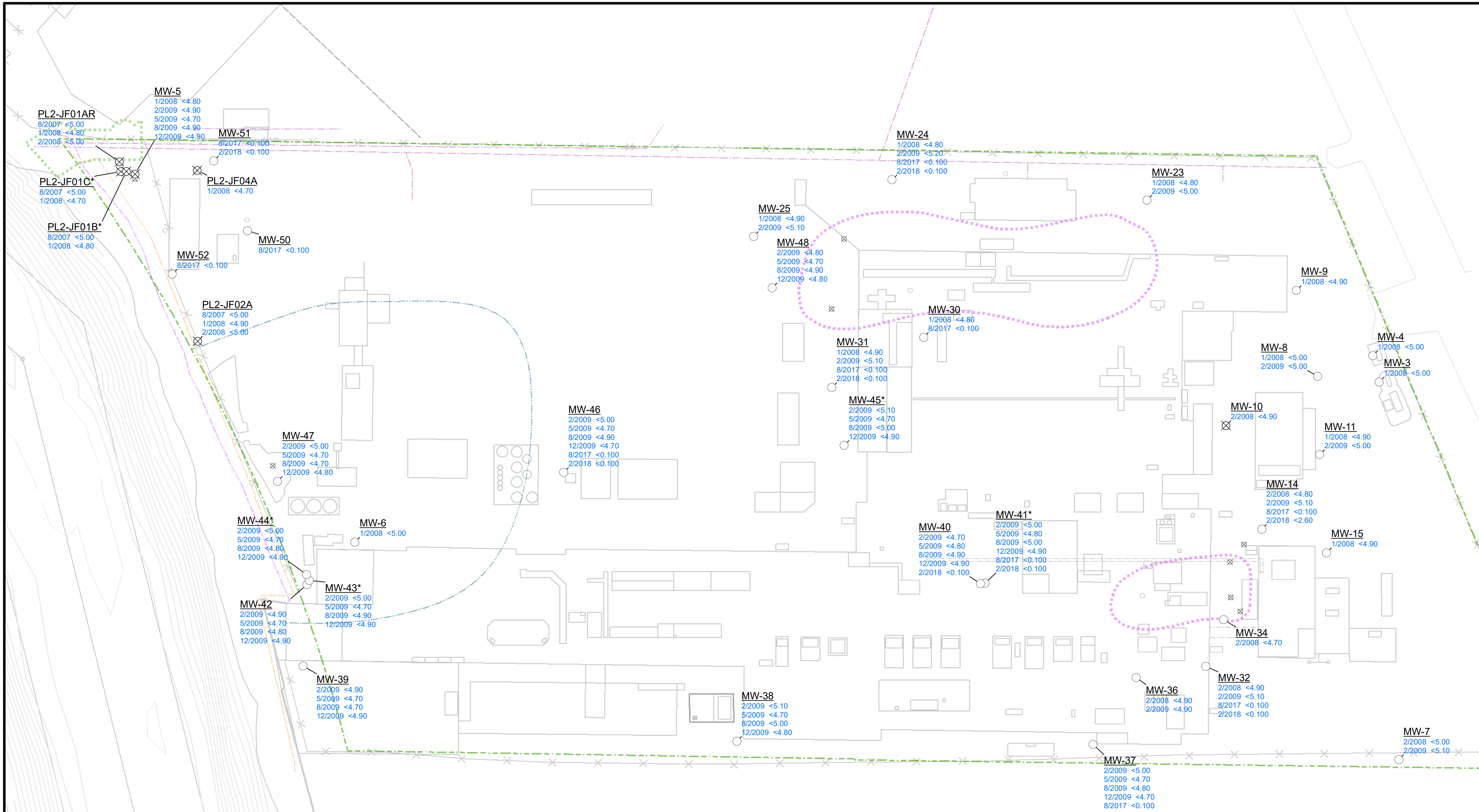
PENTACHLOROPHENOL IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-30A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- Property Boundary
- Top of Shoreline (2012)
- Top of Shoreline (2014)
- Former Embankment
- 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 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 pentachlorophenol is 0.002 µg/L.

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Seattle, Washington

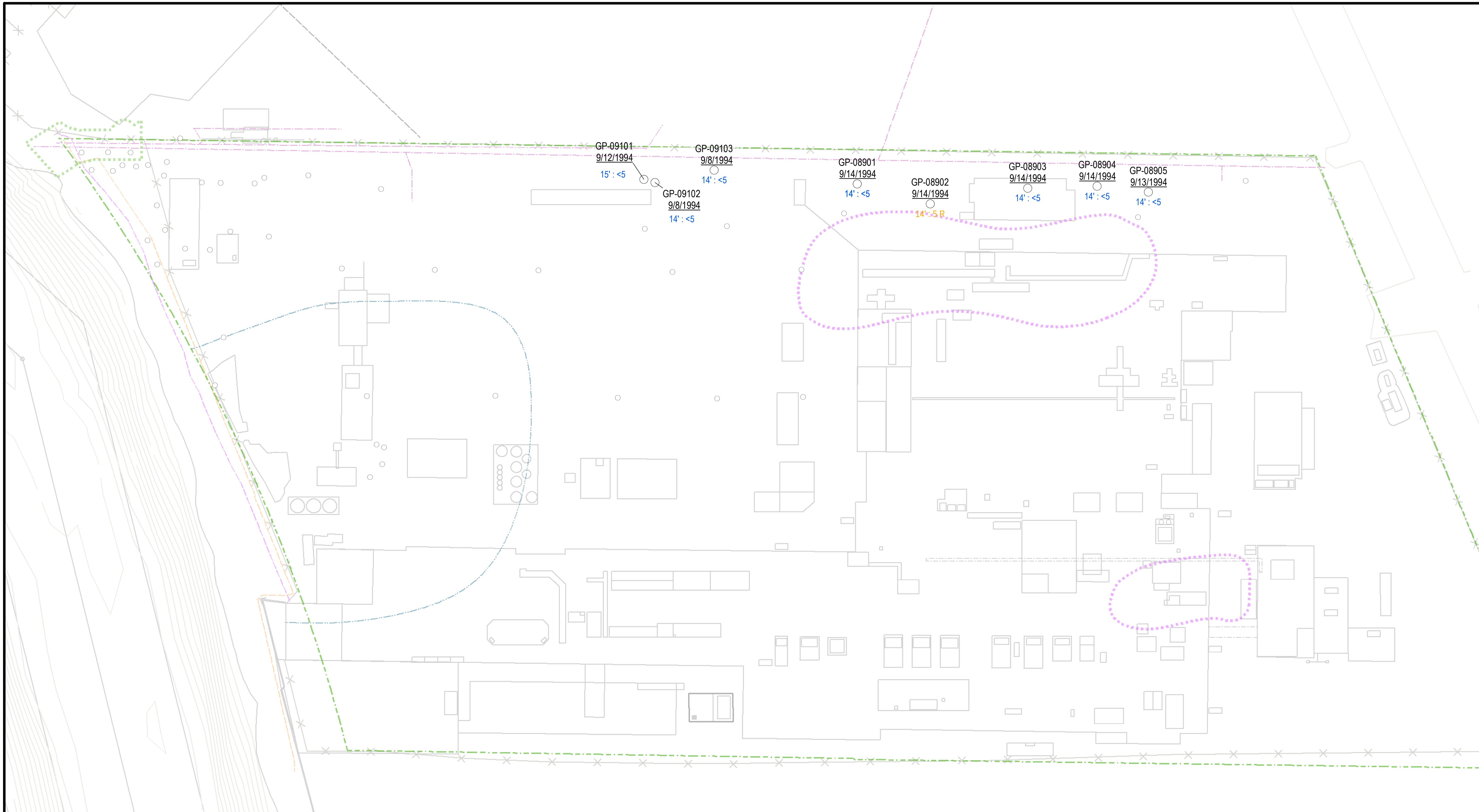
PENTACHLOROPHENOL IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-30B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for pentachlorophenol is 0.002 µg/L.

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Seattle, Washington

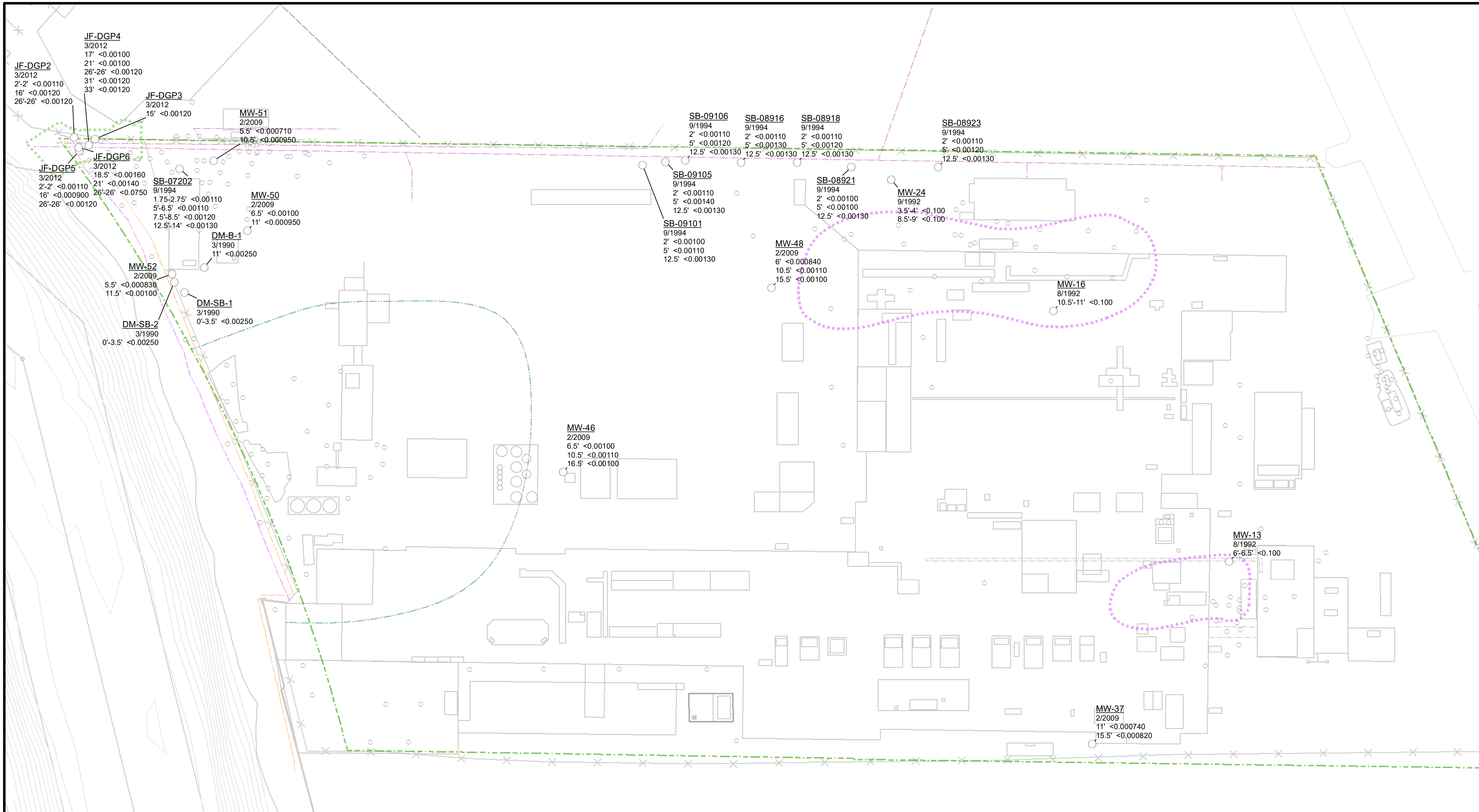
PENTACHLOROPHENOL IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-30C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for 1,1-dichloroethene is 1.4 mg/kg.

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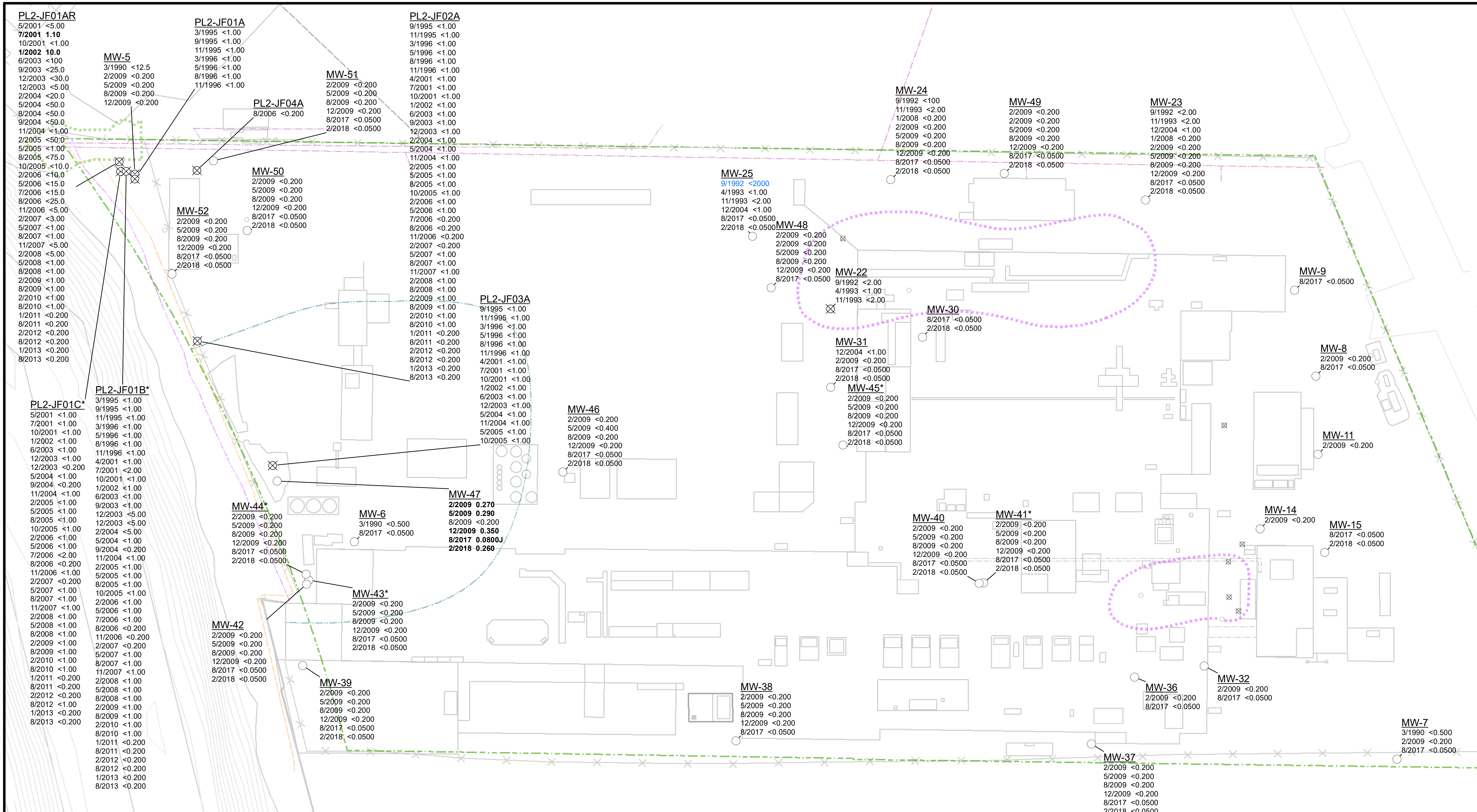
1,1-DICHLOROETHENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-31A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



LEGEND

- Sample Location * = Deep Aquifer
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 1,1-dichloroethene is 129 µg/L.

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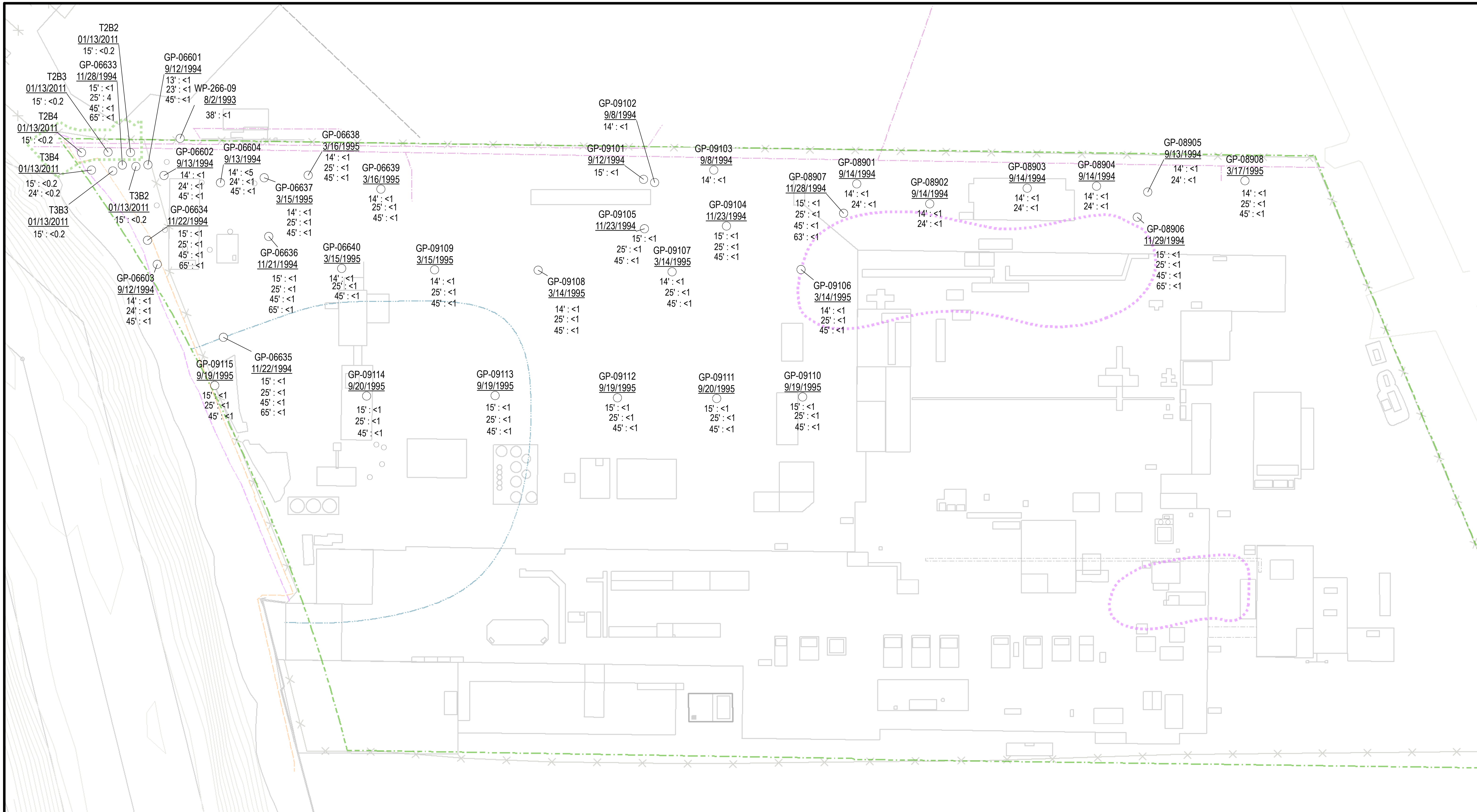
1,1-DICHLOROETHENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-31B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for 1,1-dichloroethene is 129 µg/L.

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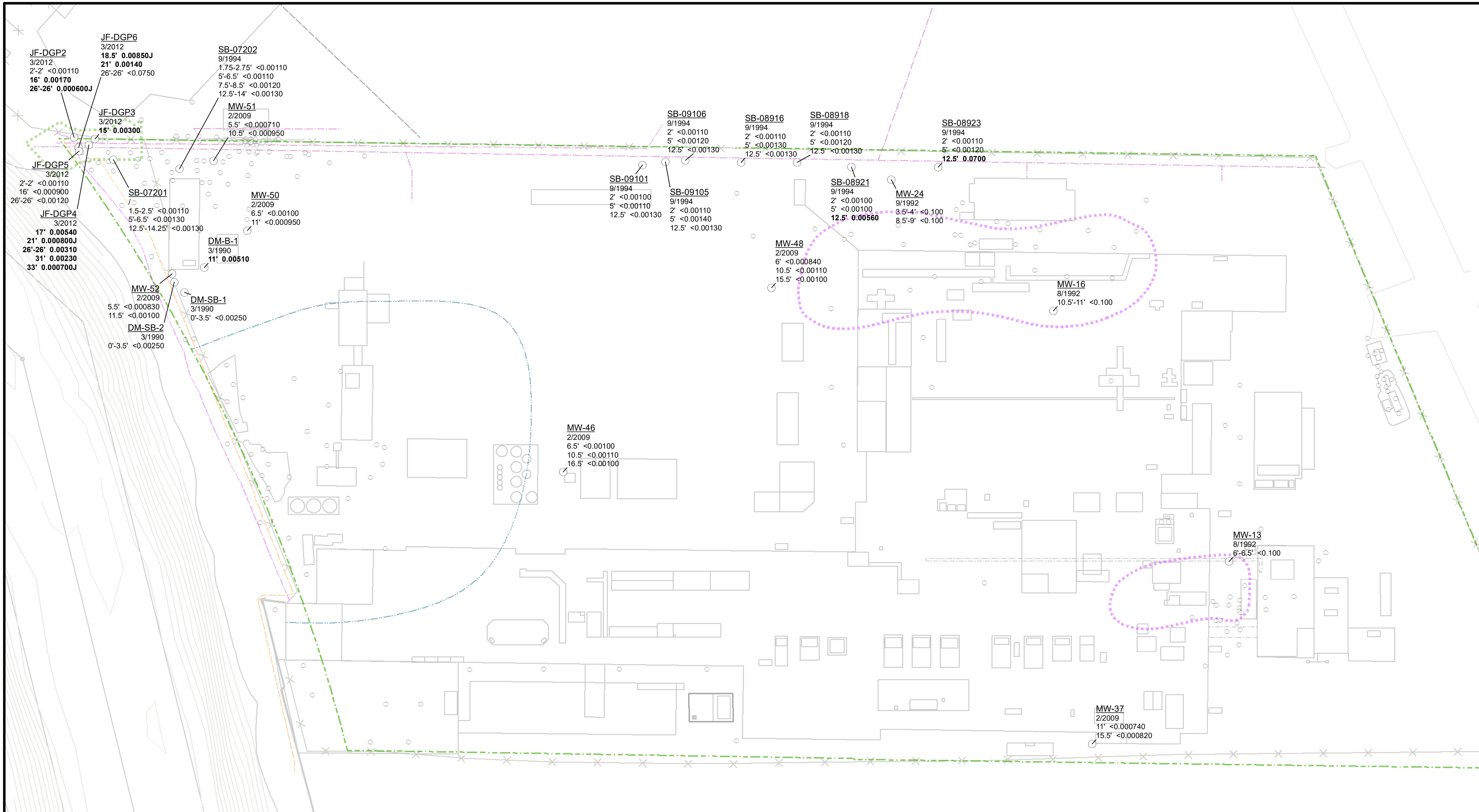
1,1-DICHLOROETHENE IN GRAB GROUNDWATER SAMPLES

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-31C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for cis-1,2-dichloroethene is 160 mg/kg.

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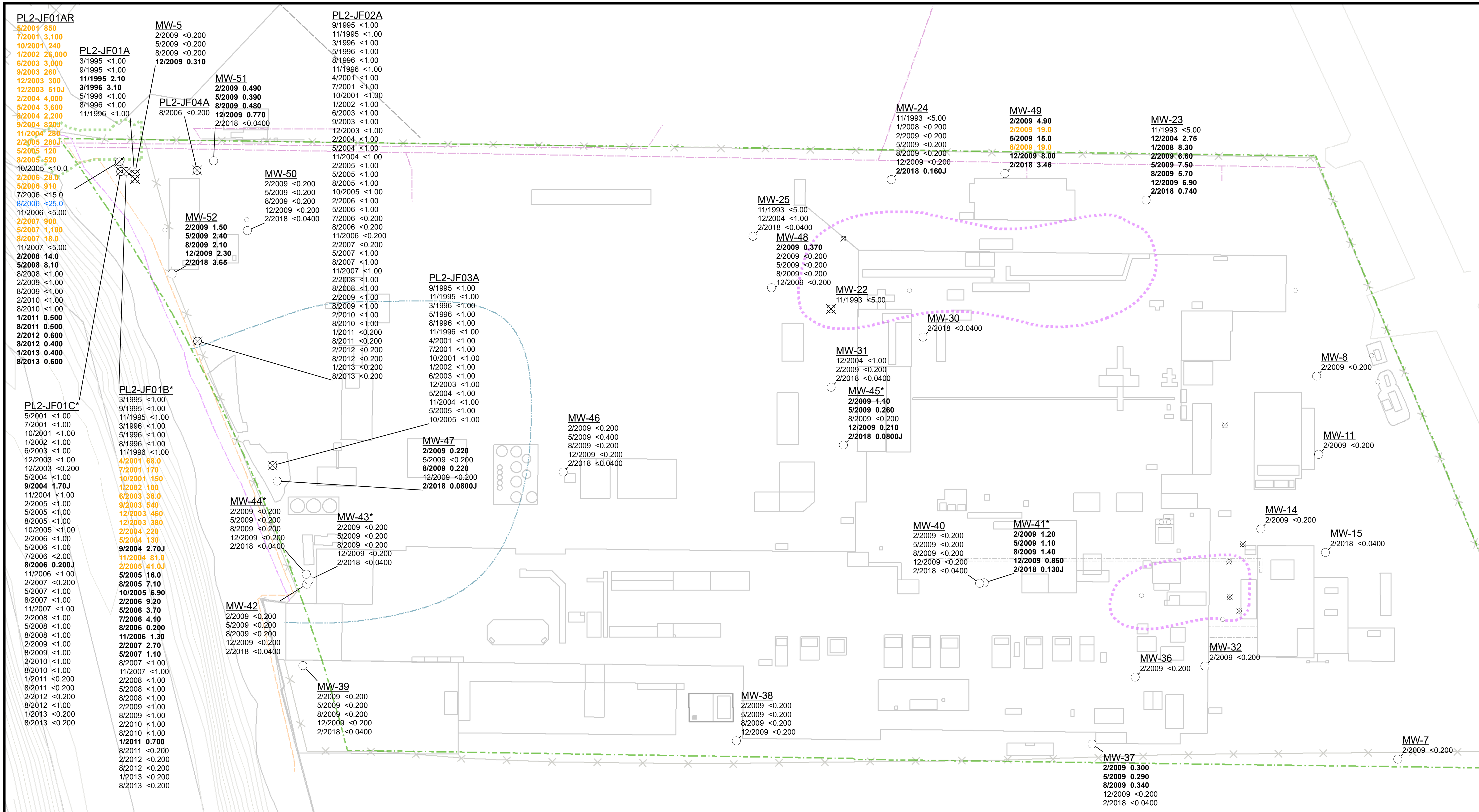
CIS-1,2-DICHLOROETHENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-32A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N W E S

0 100

Feet

LEGEND

- Sample Location   * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 cis-1,2-dichloroethene is 16 μg/L.

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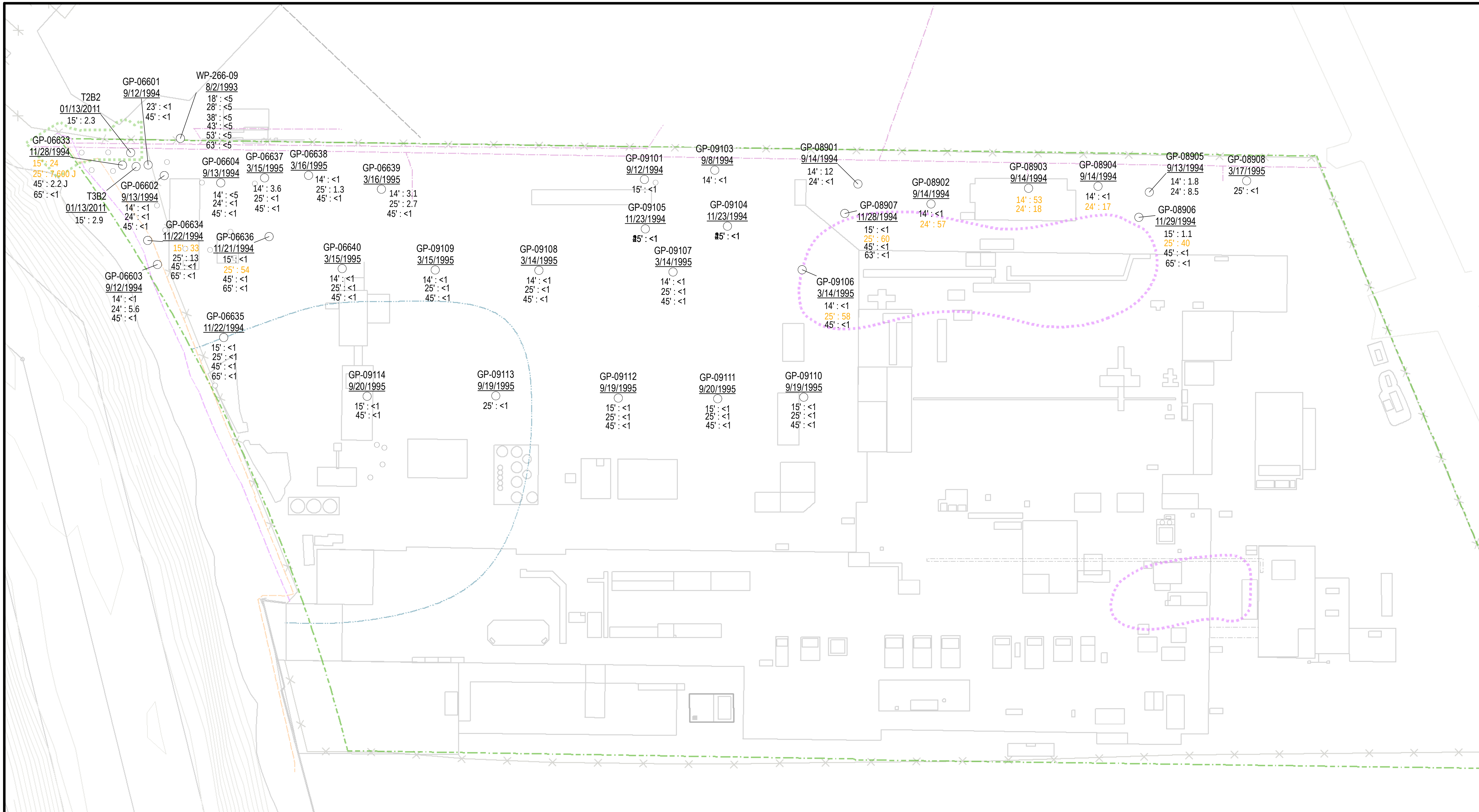
CIS-1,2-DICHLOROETHENE IN GROUNDWATER

March 2020   21-1-12596-013

SHANNON & WILSON   **FIG. B-32B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for cis-1,2-dichloroethene is 16 µg/L.

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CIS-1,2-DICHLOROETHENE IN GRAB GROUNDWATER SAMPLES

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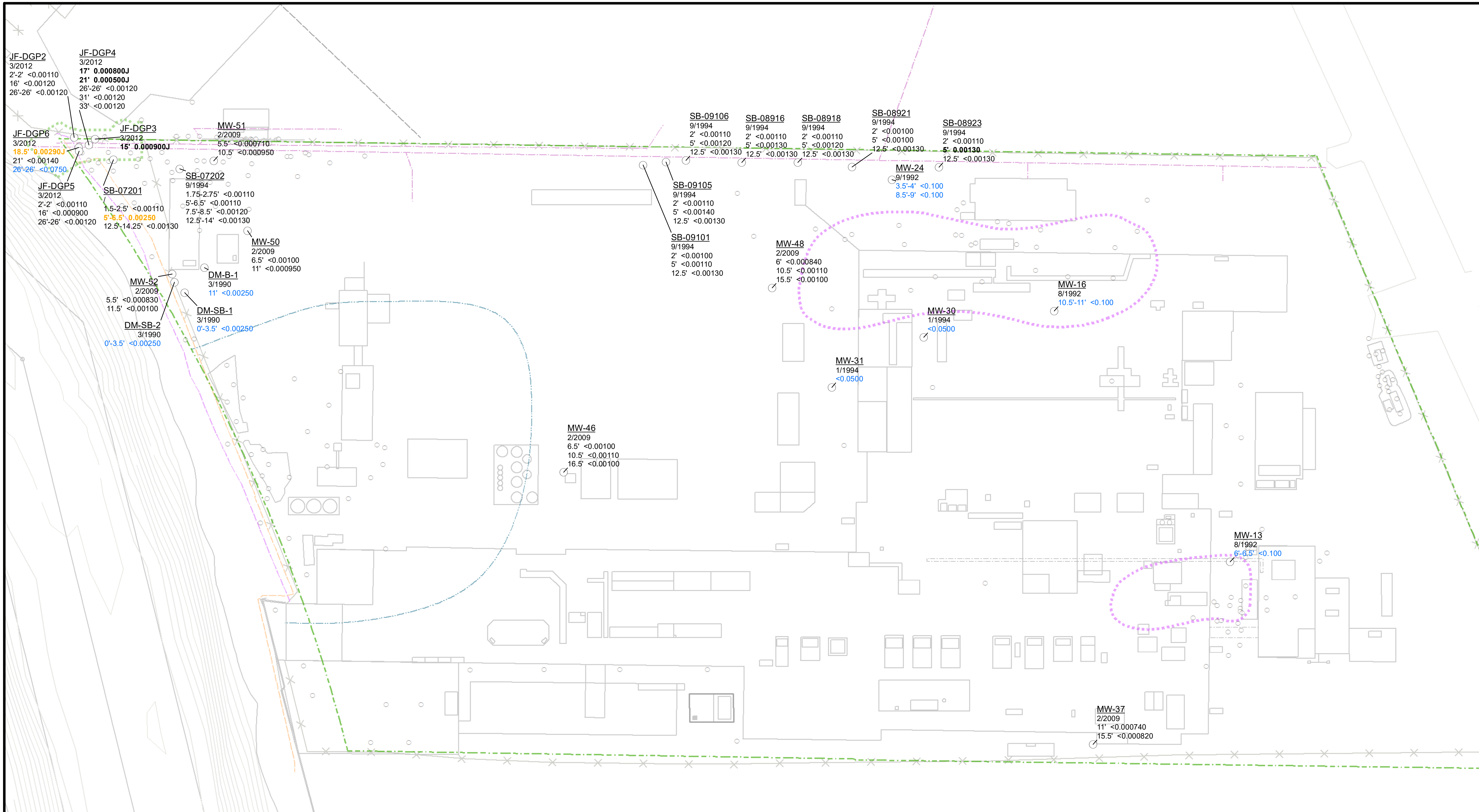
SHANNON & WILSON | FIG. B-32C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for tetrachloroethene is 0.0016 mg/kg.

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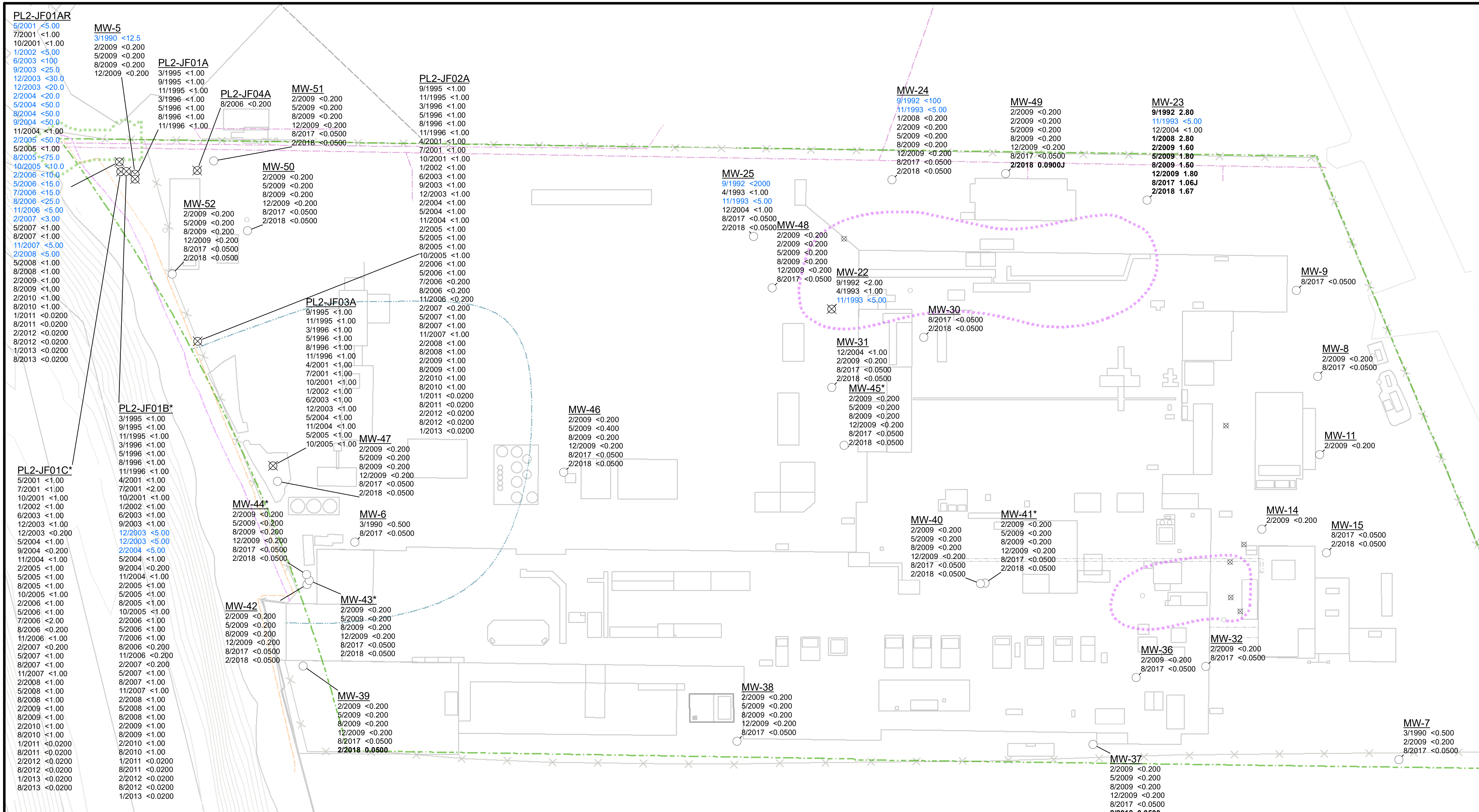
TETRACHLOROETHENE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-33A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 tetrachloroethene is 2.9 µg/L.

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TETRACHLOROETHENE IN GROUNDWATER

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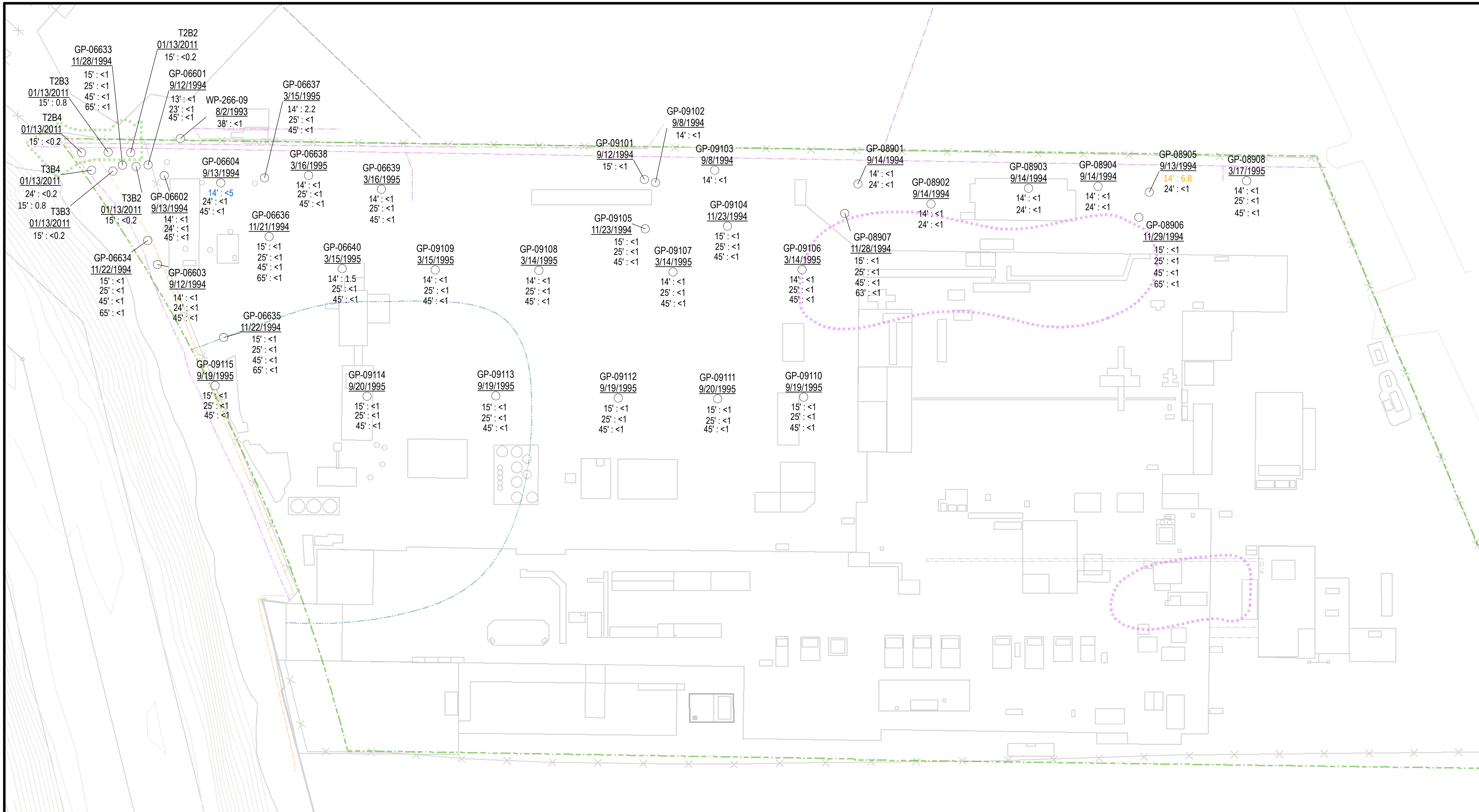
SHANNON & WILSON | **FIG. B-33B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
E
S
W

0 100

Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for tetrachloroethene is 2.9 µg/L.

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TETRACHLOROETHENE IN GRAB GROUNDWATER SAMPLES

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21-1-12596-013

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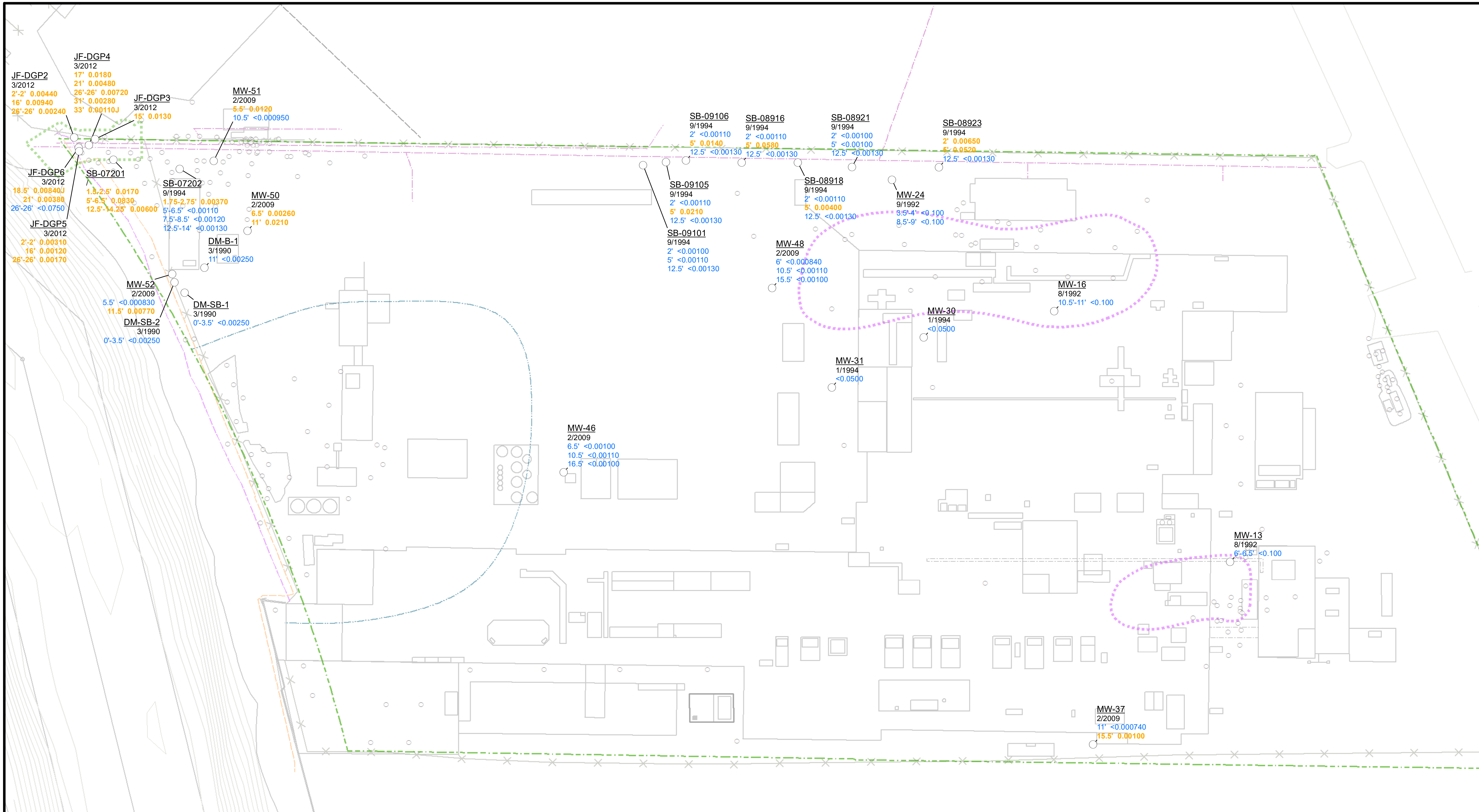
FIG. B-33C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for trichloroethene is 0.00027 mg/kg.

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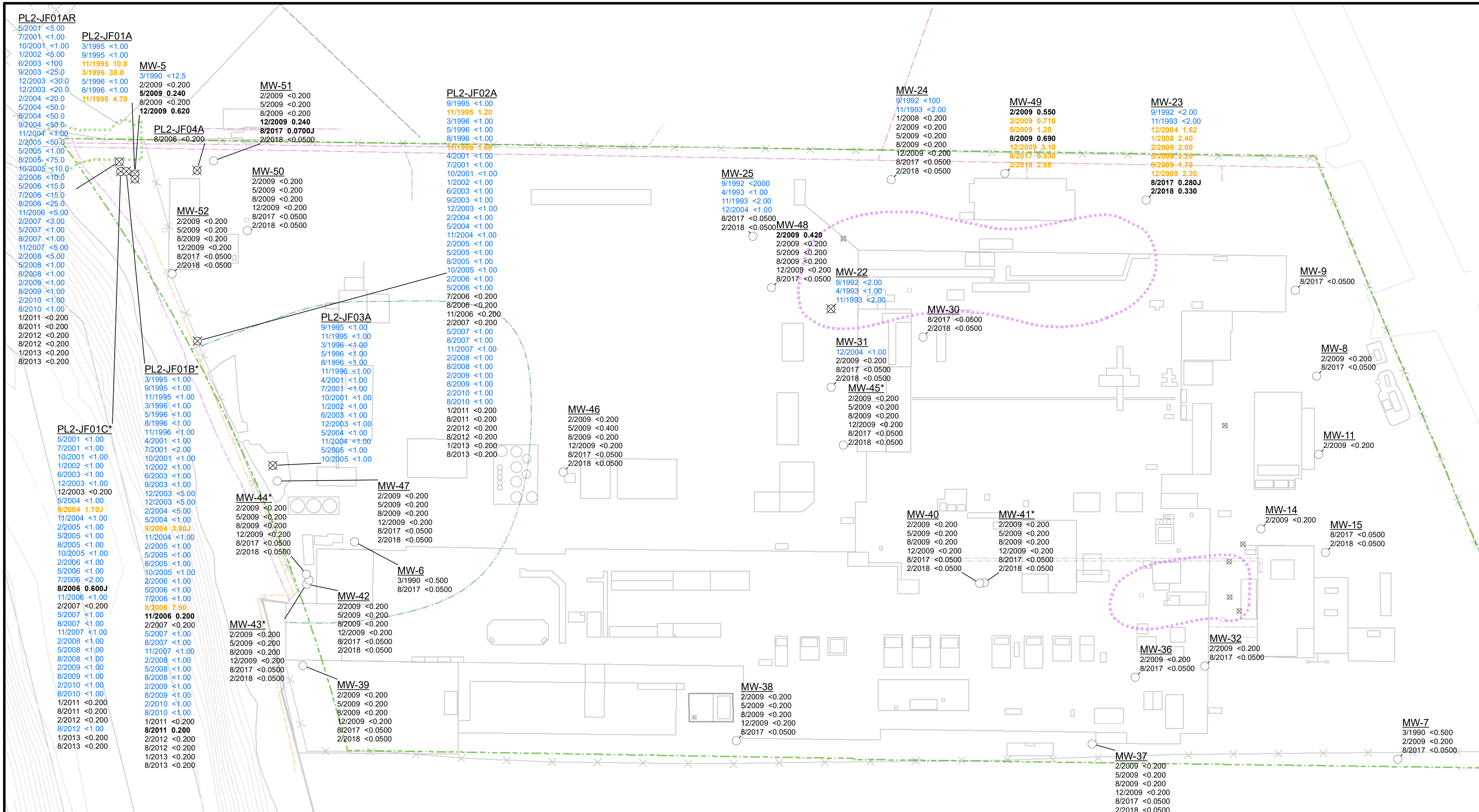
TRICHLOROETHENE IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-34A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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.

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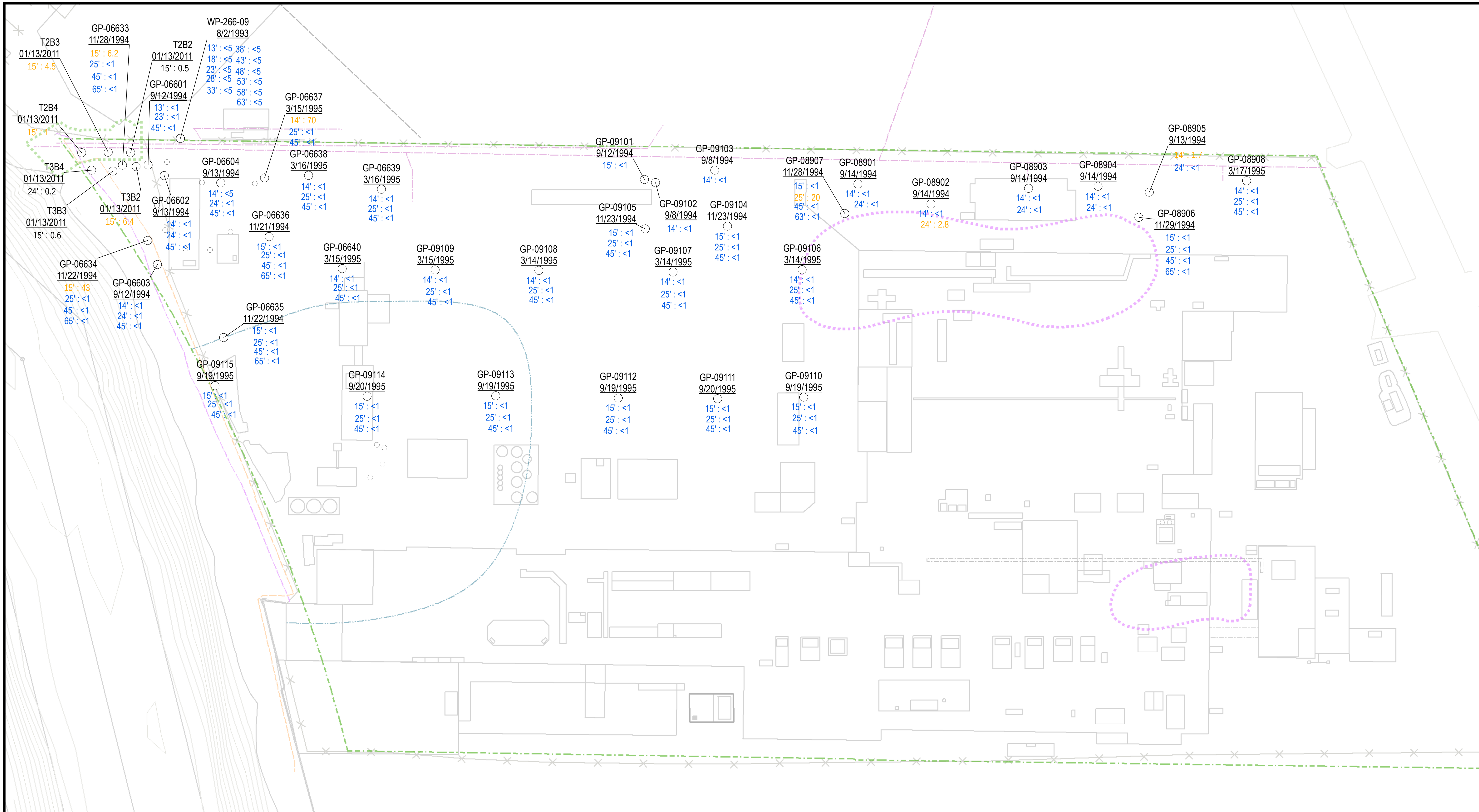
TRICHLOROETHENE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-34B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

○ Sample Location

○ Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for trichloroethene is 0.7 µg/L.

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TRICHLOROETHENE IN GRAB GROUNDWATER SAMPLES

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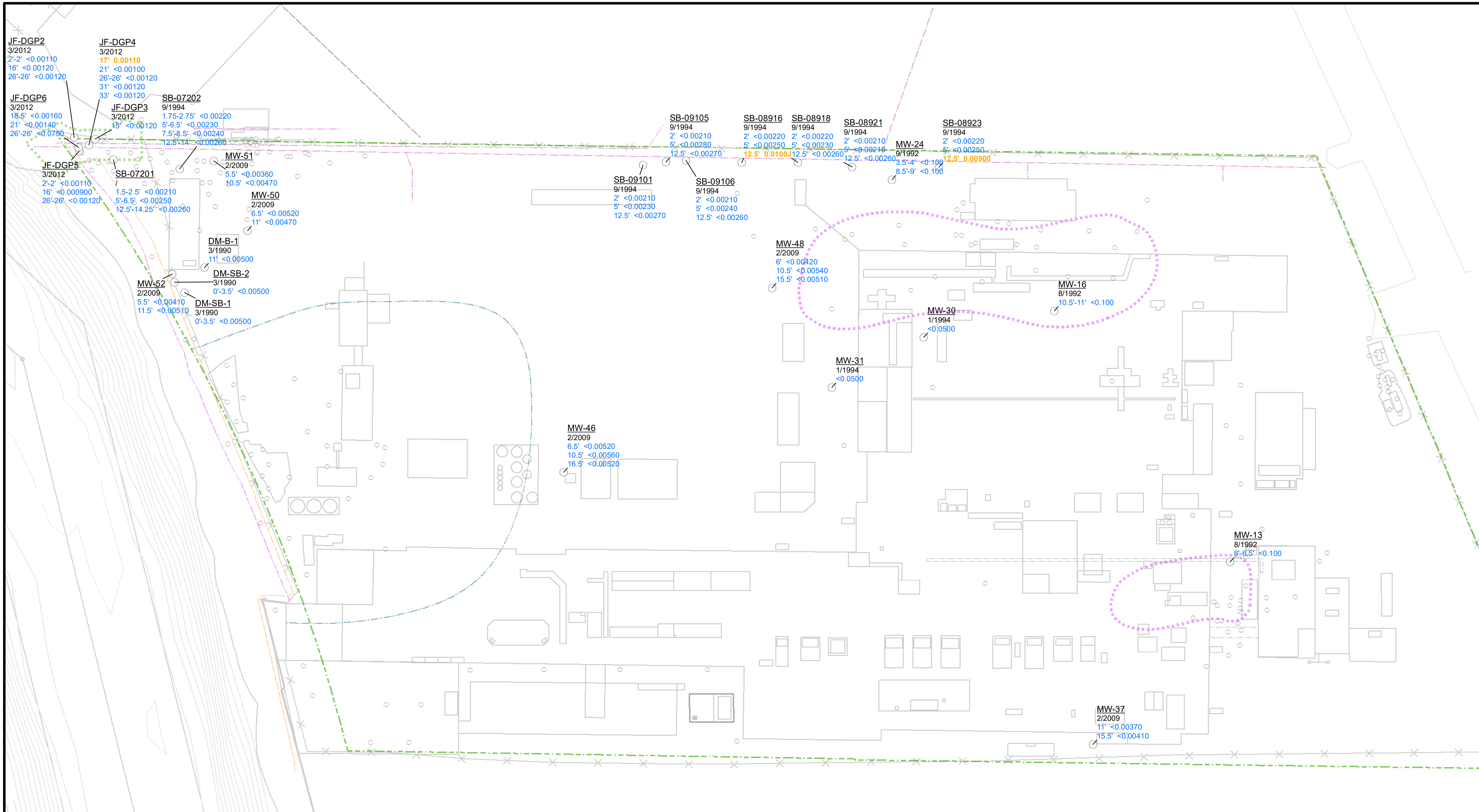
SHANNON & WILSON | FIG. B-34C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



LEGEND

N
W E
S
0 100
Feet

○ 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for vinyl chloride is 0.000055 mg/kg.

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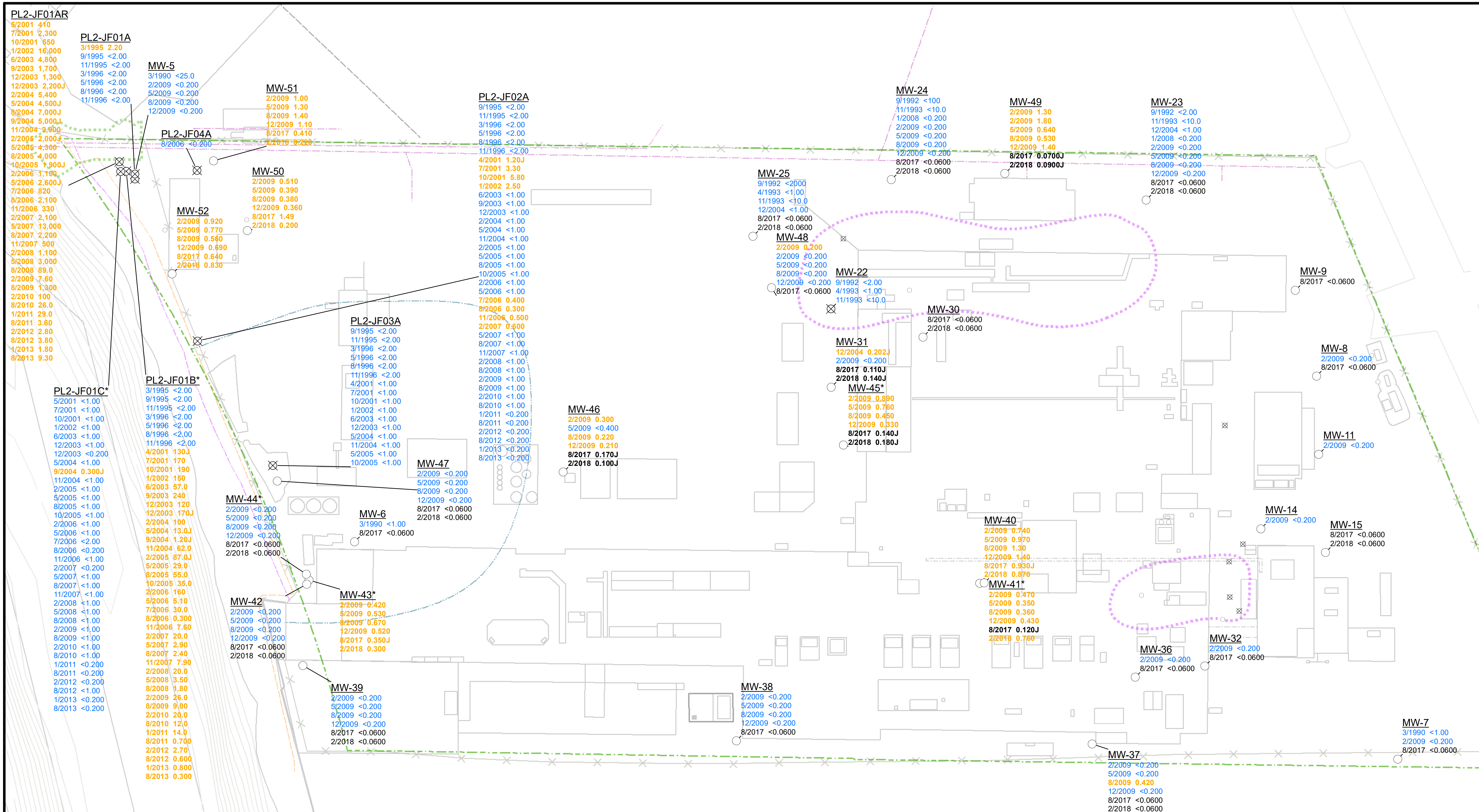
VINYL CHLORIDE IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-35A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 vinyl chloride is 0.18 µg/L.

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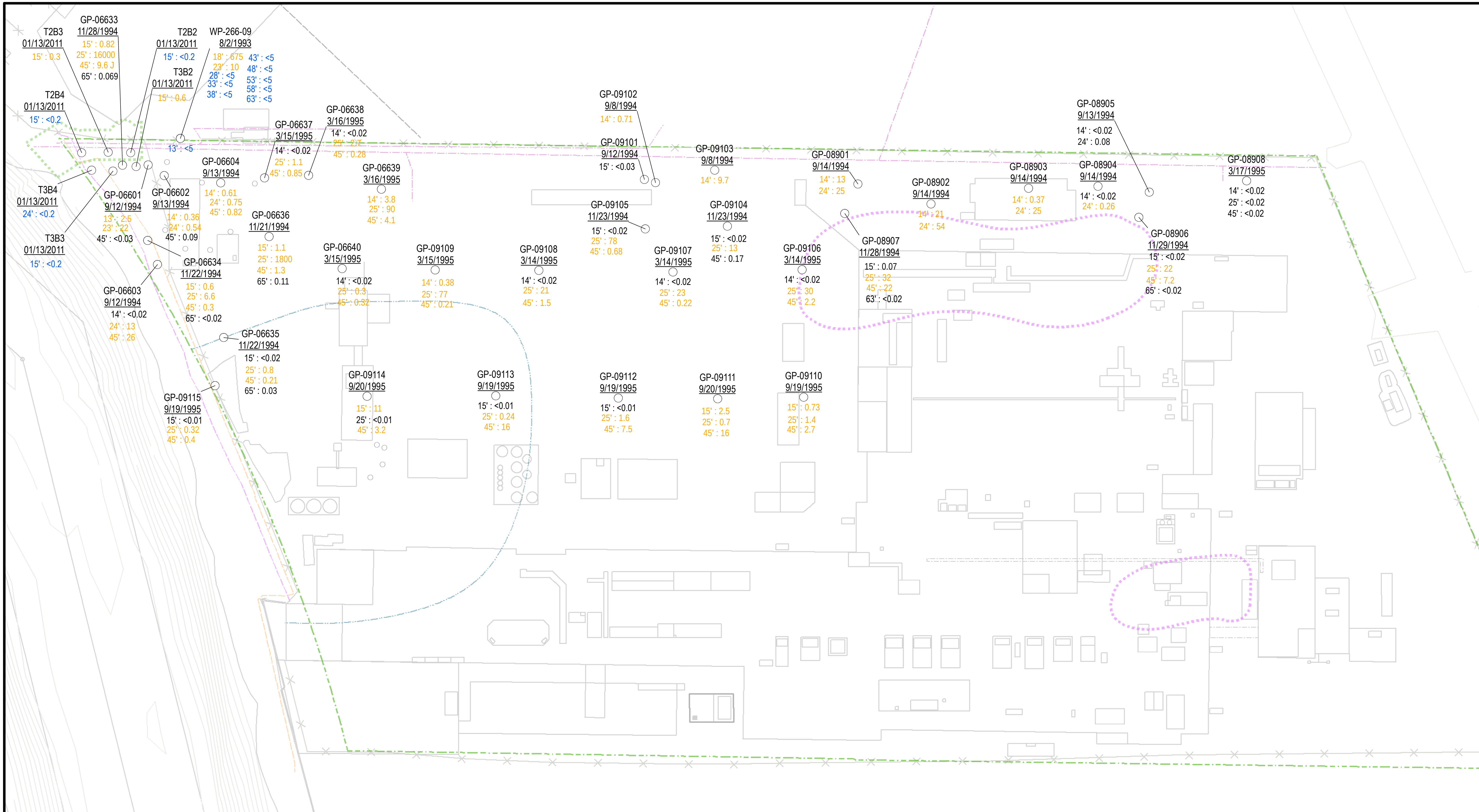
VINYL CHLORIDE IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-35B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

○ Sample Location

○ Sample Location w/ Analytical Result

Analyte Result Key

T2B2 2/6/2009	Sample Location Name Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for vinyl chloride is 0.18 µg/L.

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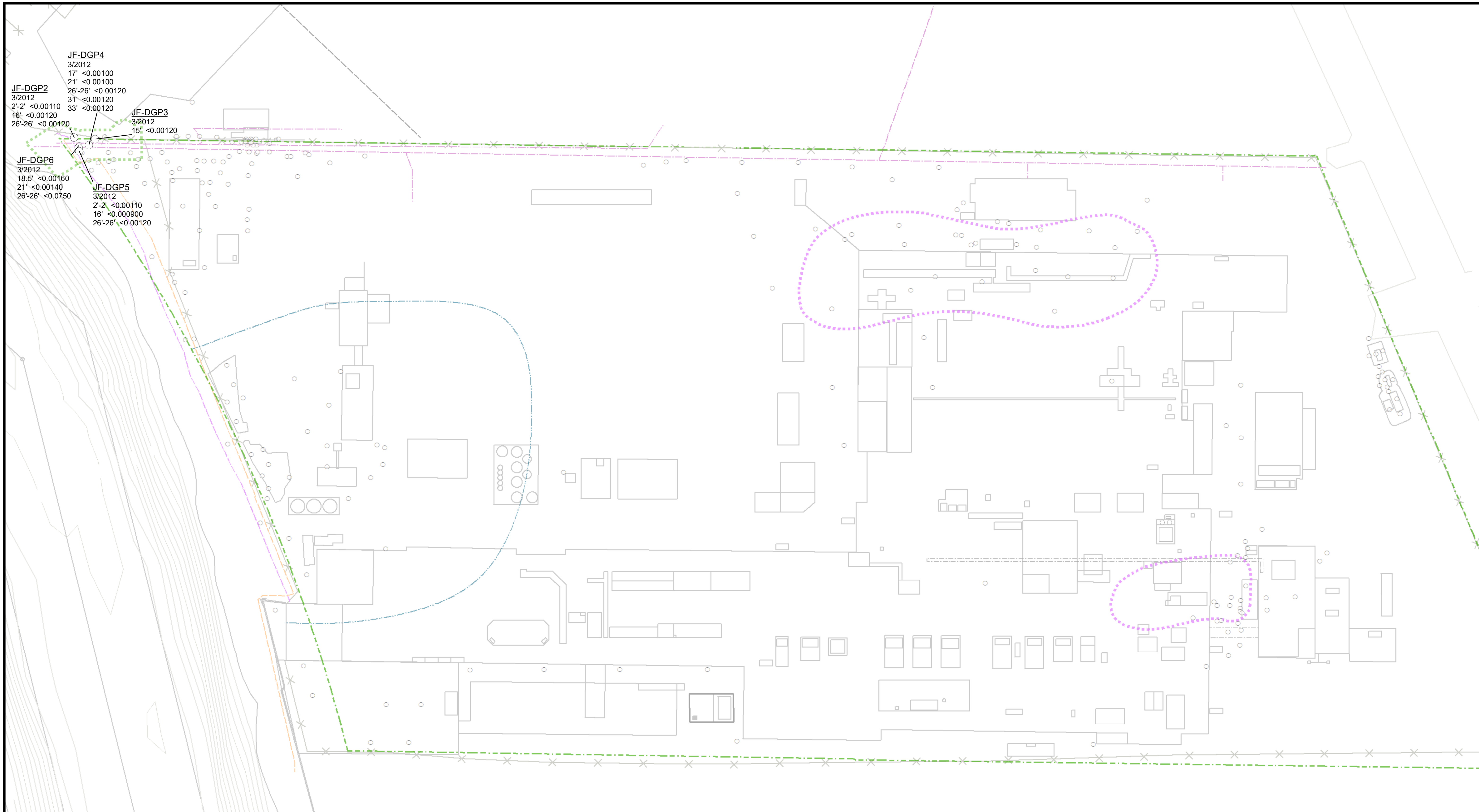
VINYL CHLORIDE IN GRAB GROUNDWATER SAMPLES

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-35C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for methyl tert-butyl ether is 560 mg/kg.

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METHYL TERT-BUTYL ETHER IN SOIL

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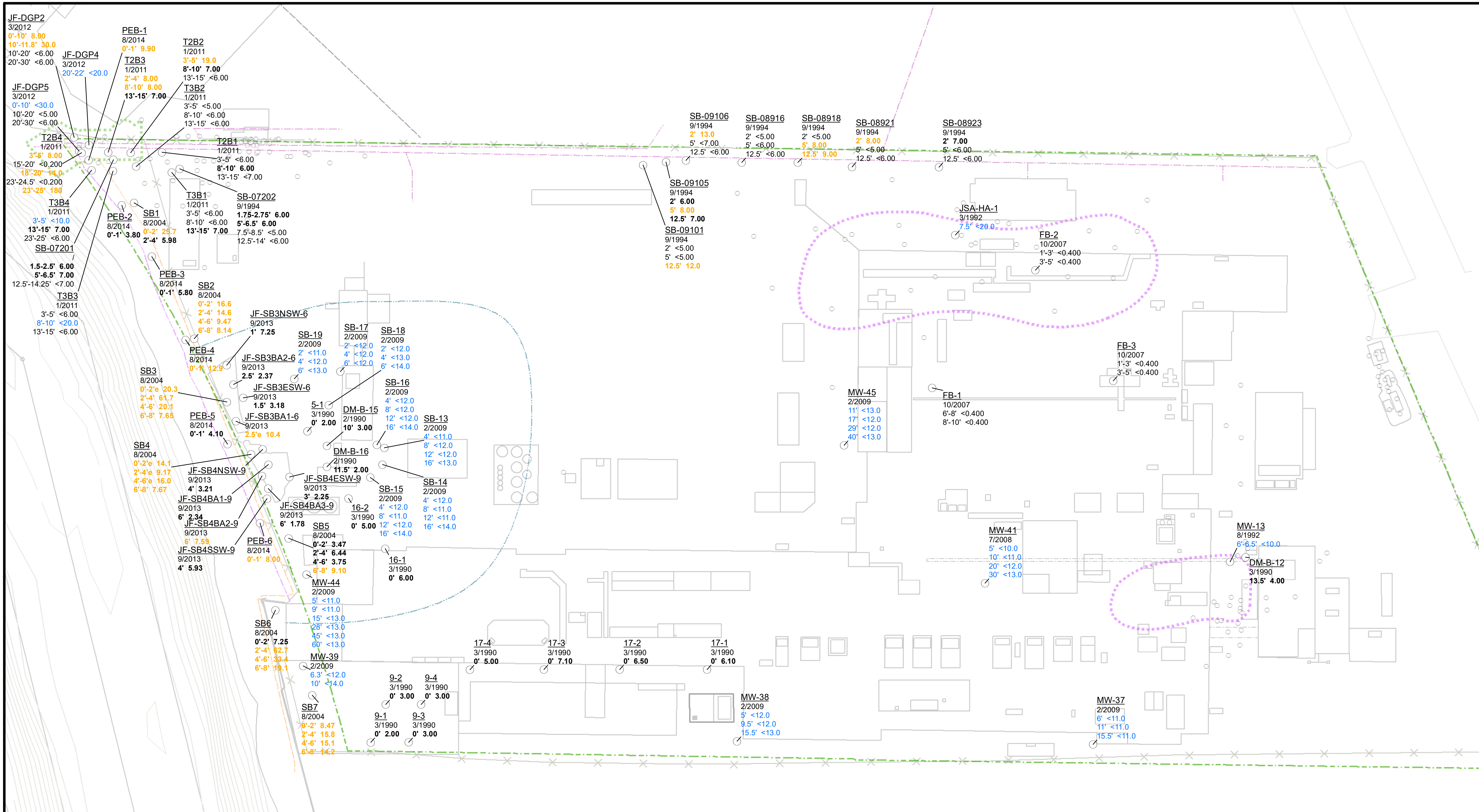
FIG. B-36A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for arsenic is 7.3 mg/kg.

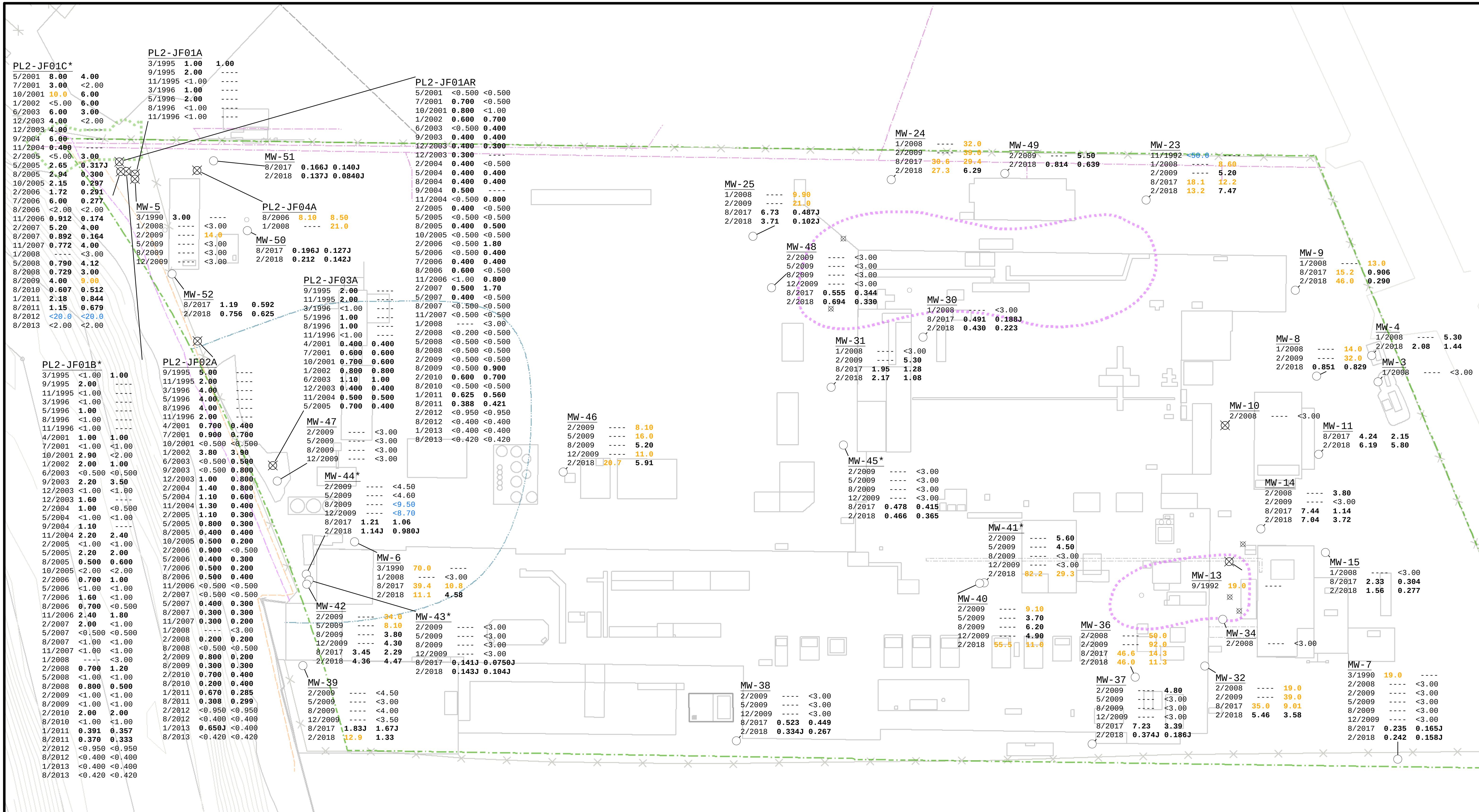
Jorgensen Forge Facility, 8531 East Marginal Way S
Seattle, Washington

ARSENIC IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | **FIG. B-37A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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.

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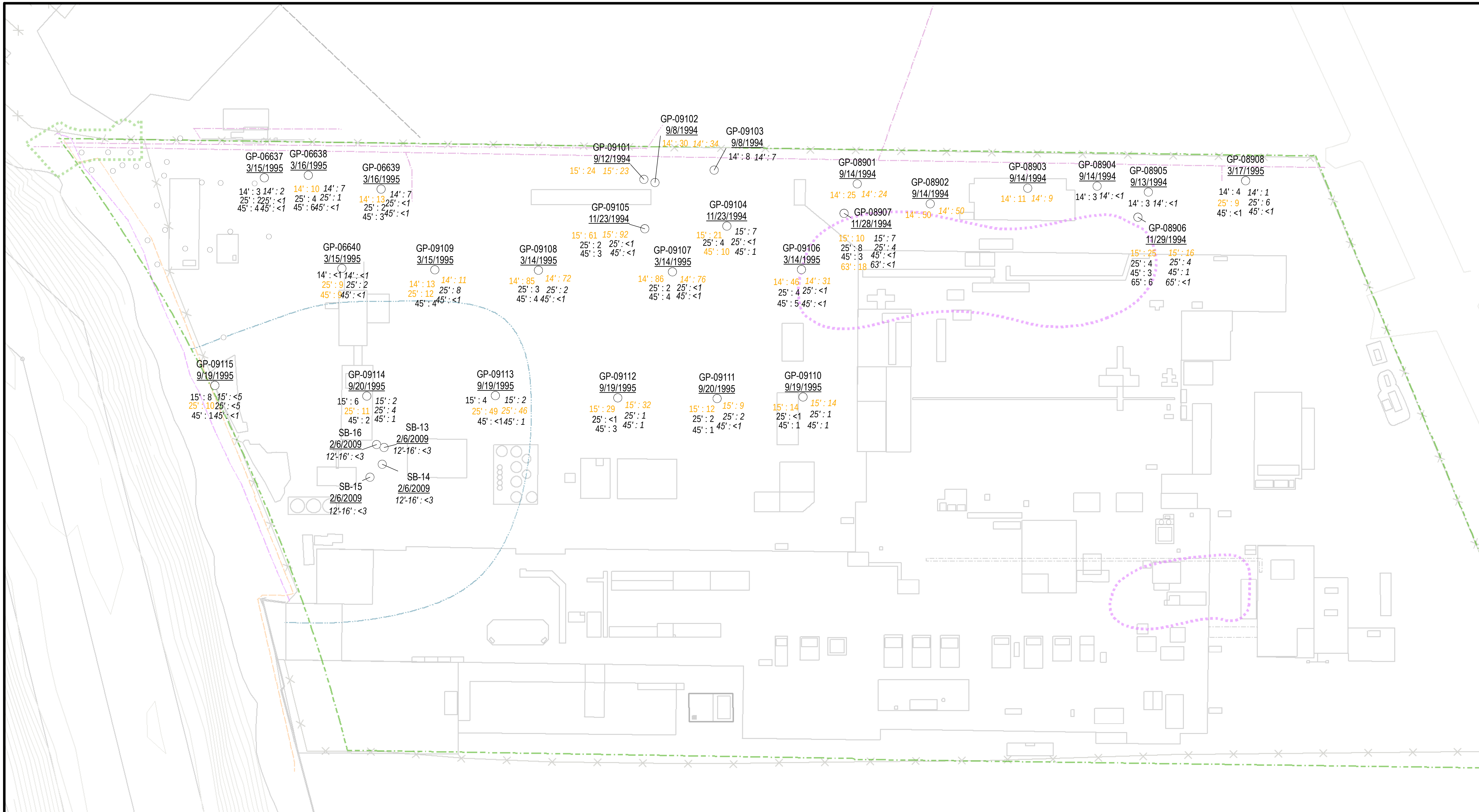
ARSENIC (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-37B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

○ Sample Location

○ Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for arsenic is 8 µg/L.

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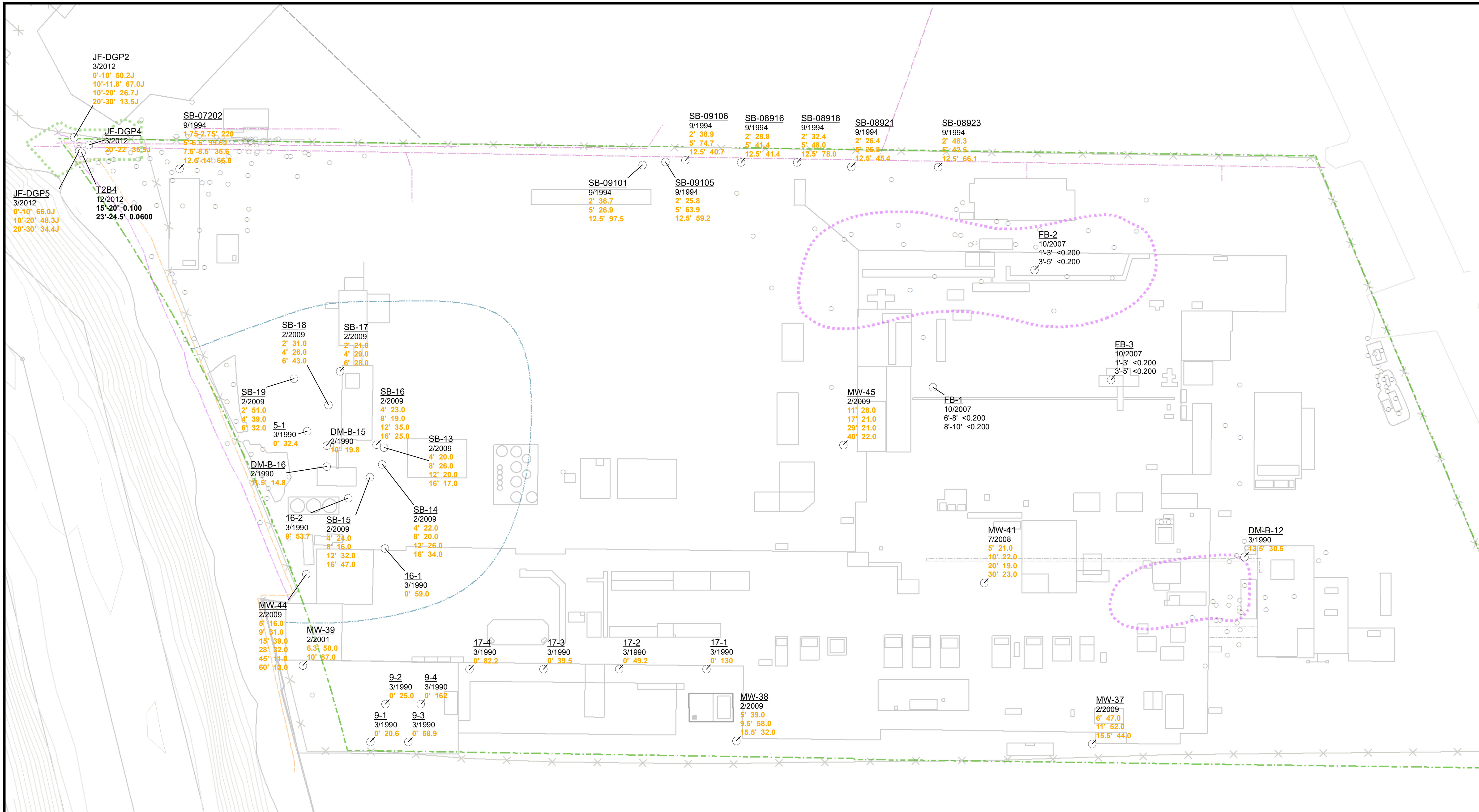
ARSENIC (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 | 21-1-12596-013

SHANNON & WILSON | FIG. B-37C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for barium is 8.3 mg/kg.

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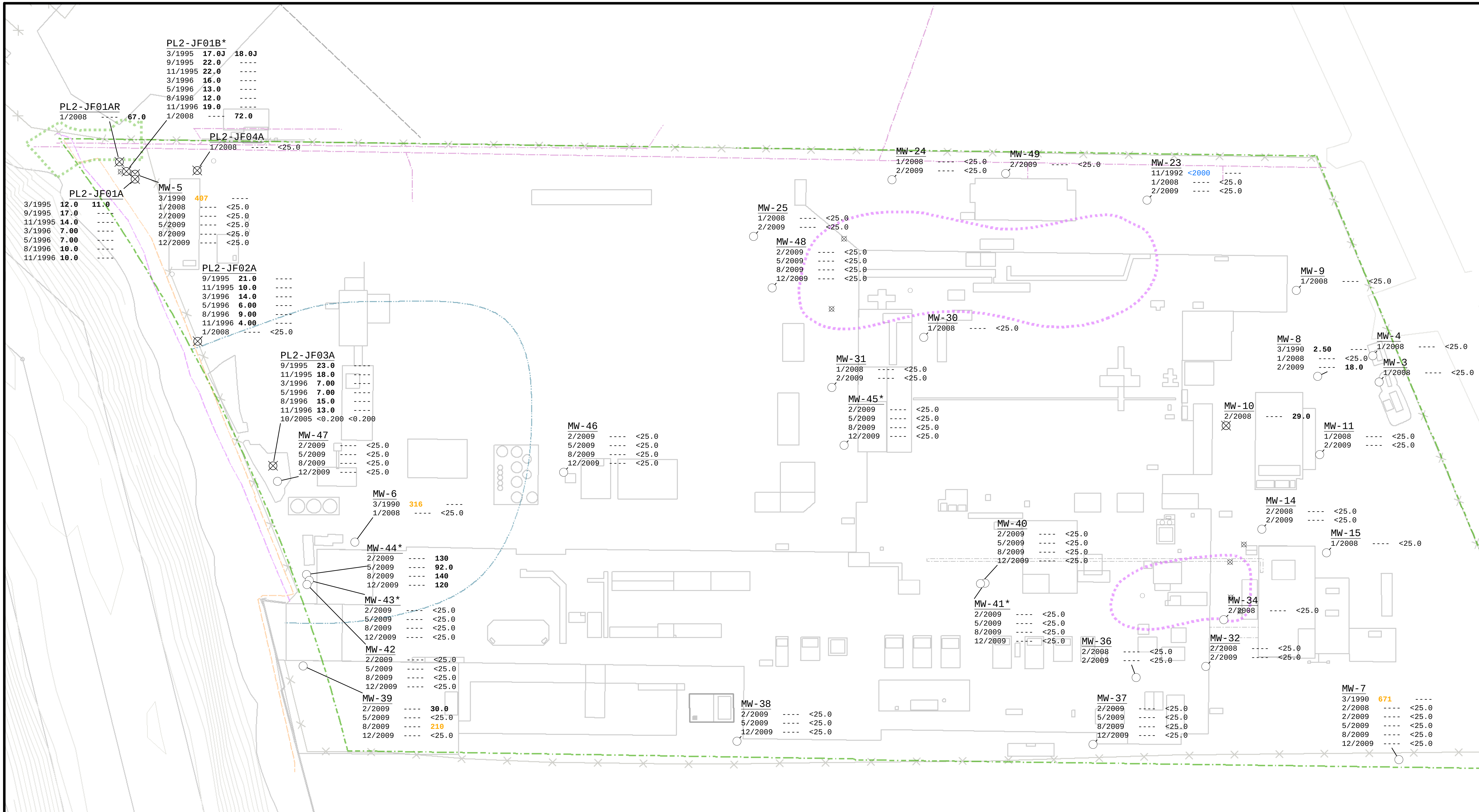
BARIUM IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-38A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 barium is 200 µg/L.

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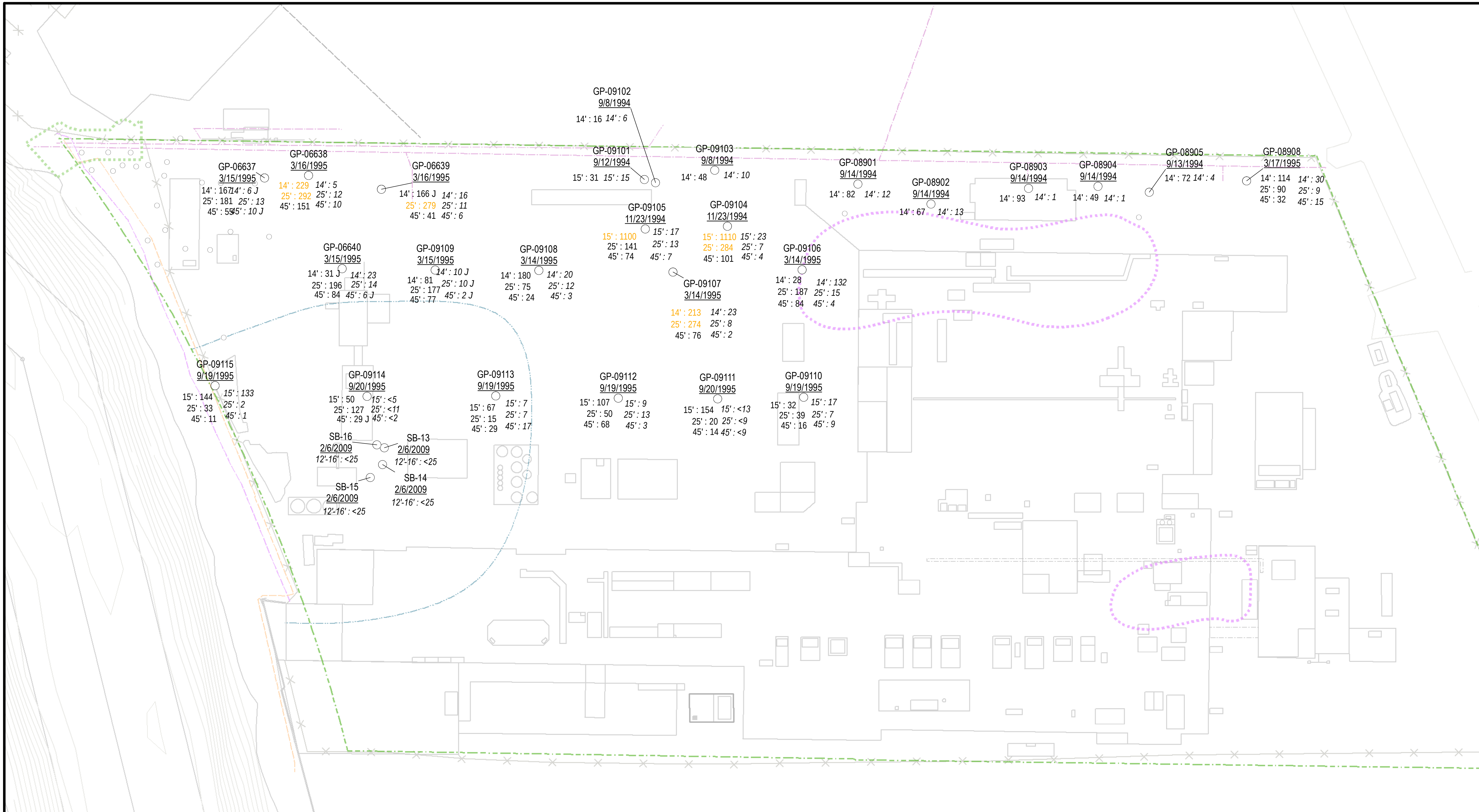
BARIUM (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-38B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N S W E

0 100

Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (μg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for barium is 200 μg/L.

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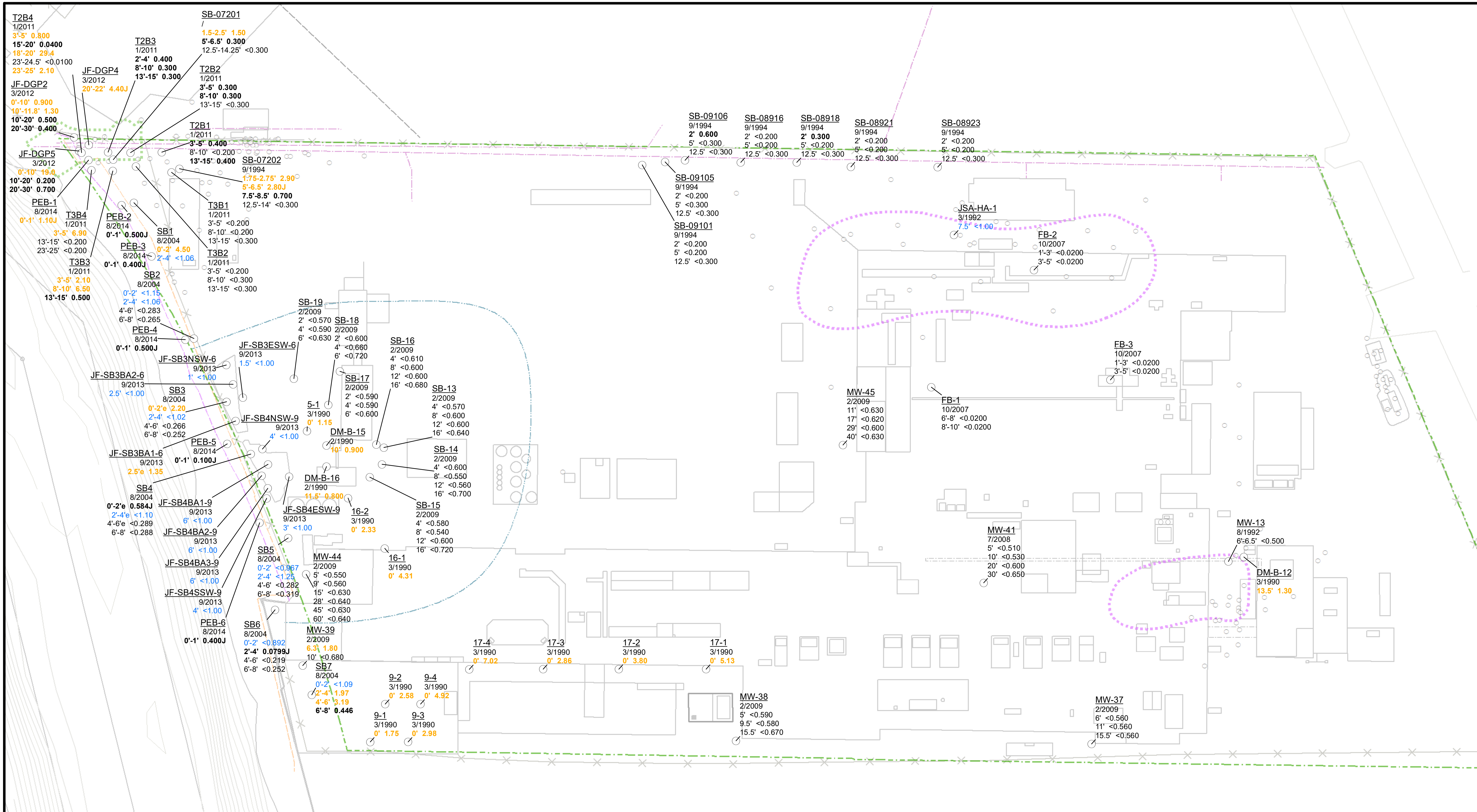
BARIUM (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-38C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for cadmium is 0.77 mg/kg.

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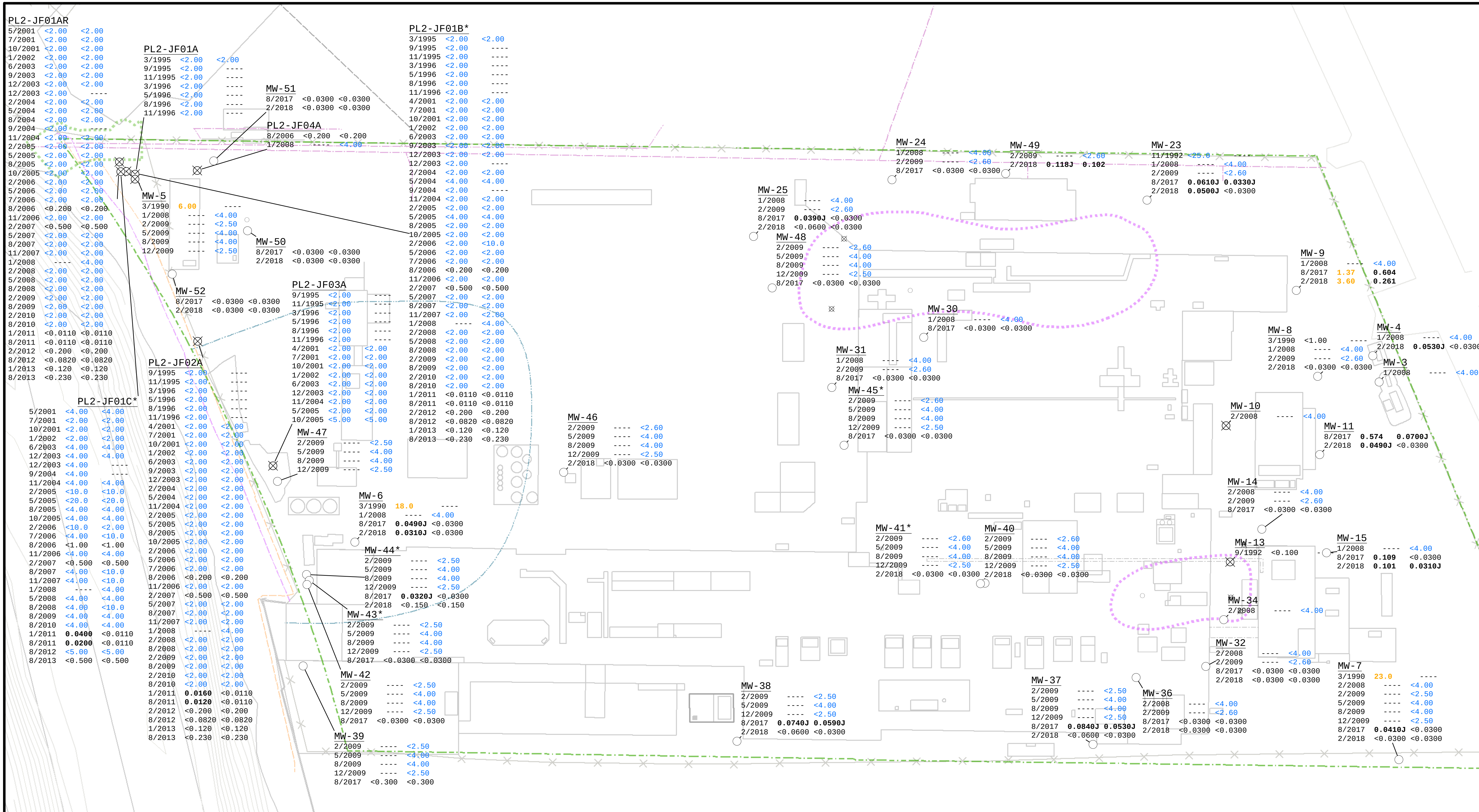
CADMIUM IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-39A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 cadmium is 1.19 µg/L.

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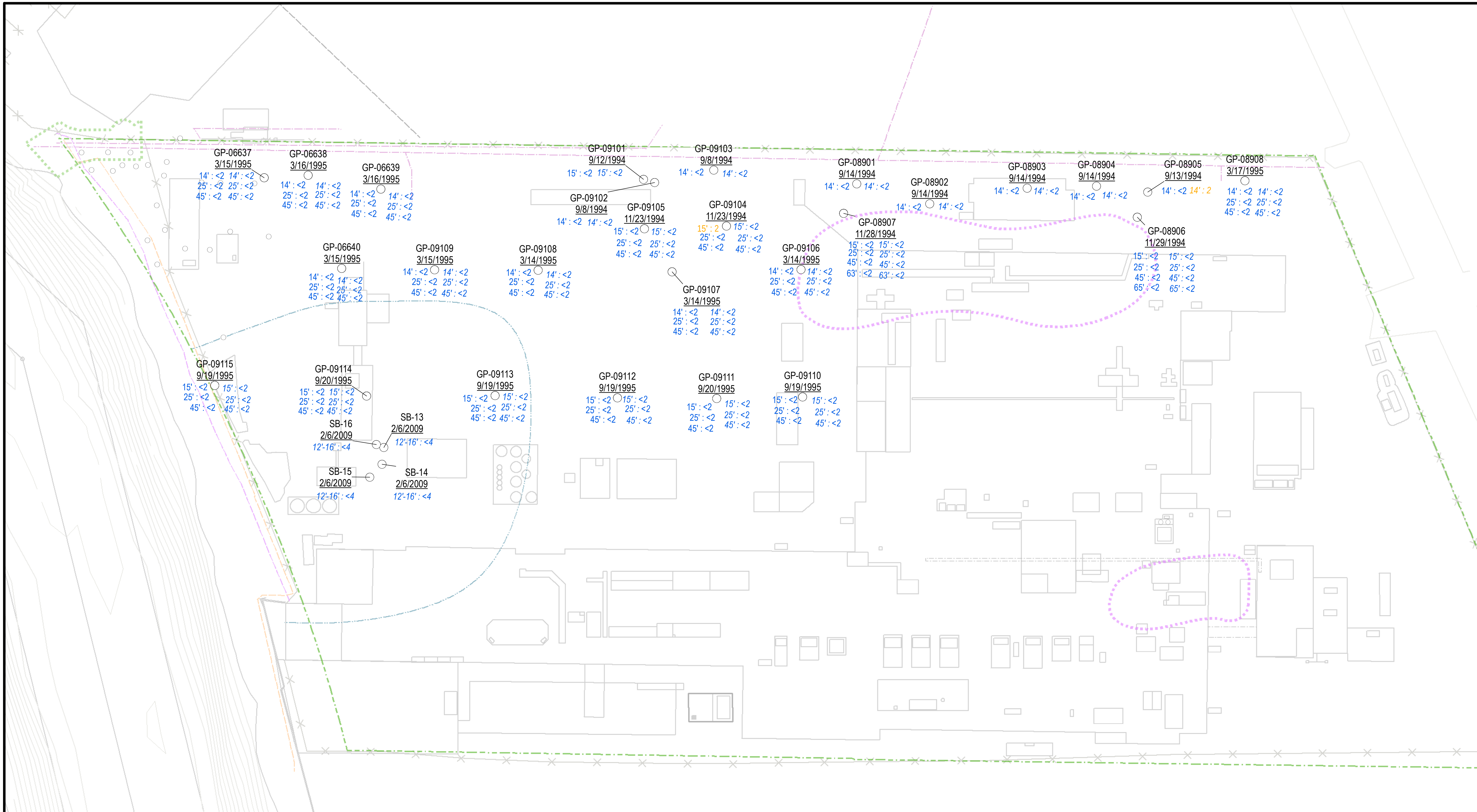
CADMIUM (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-39B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for cadmium is 1.19 µg/L.

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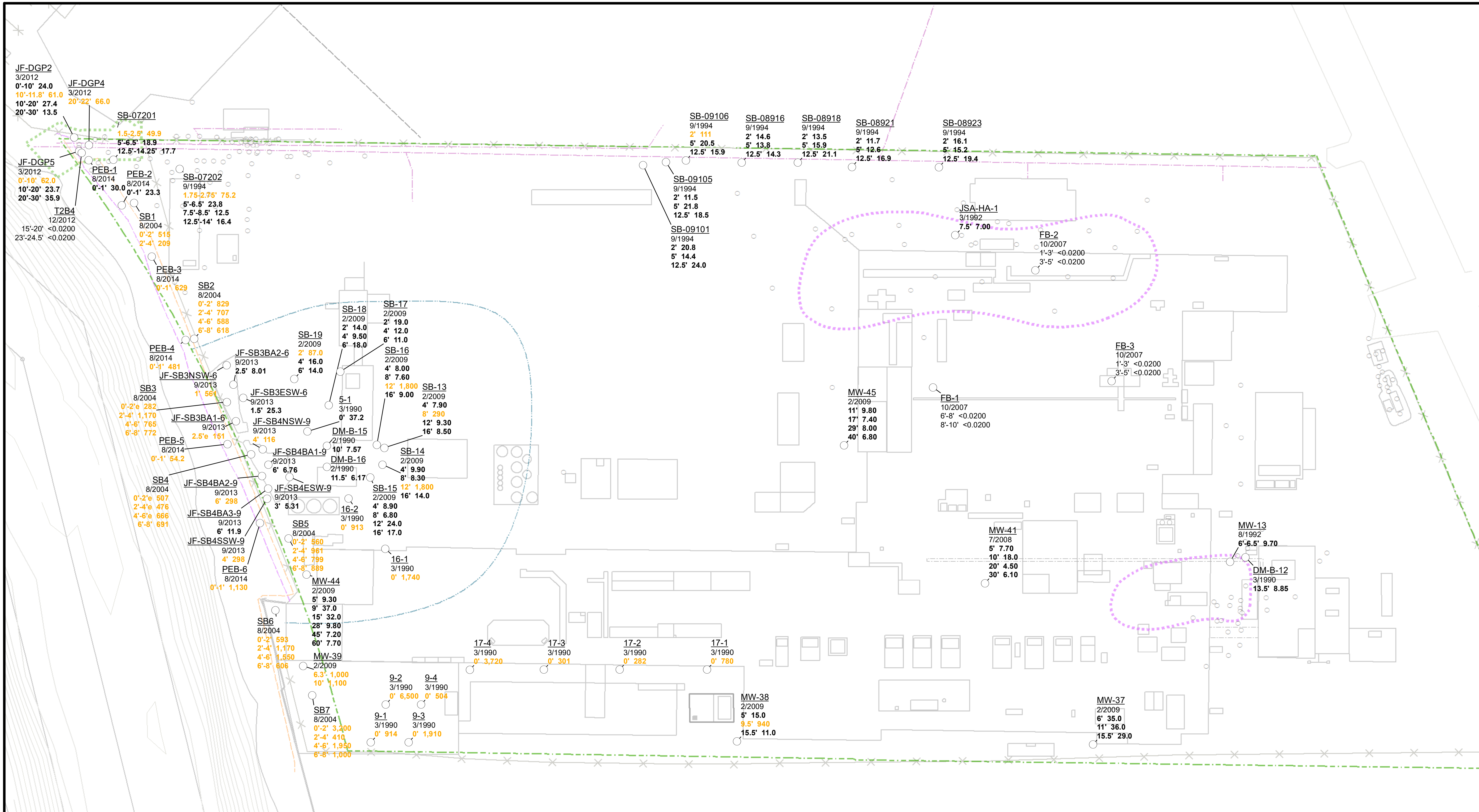
CADMIUM (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-39C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



N
W E
S

LEGEND

0 100
Feet

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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for chromium is 48 mg/kg.

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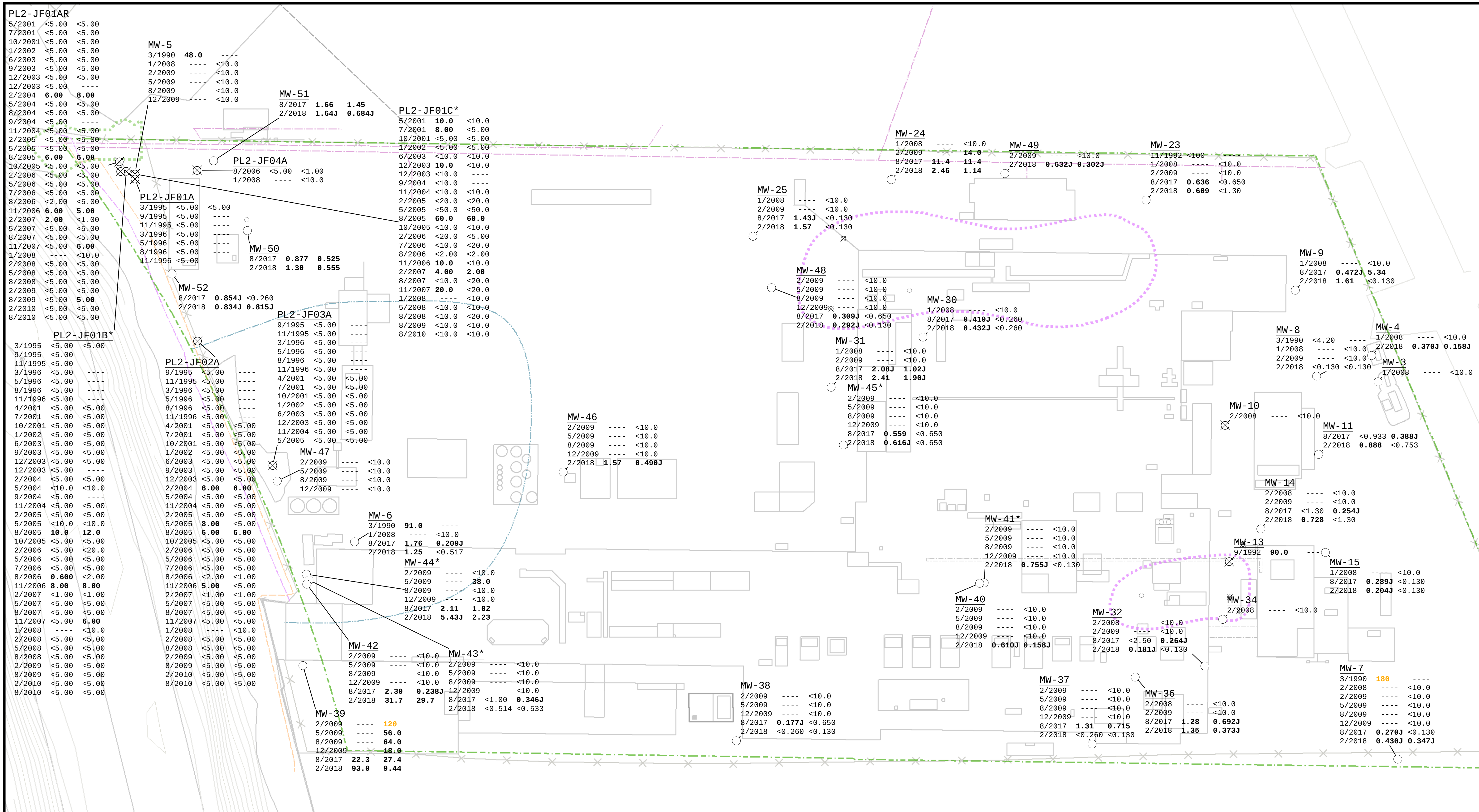
CHROMIUM IN SOIL

March 2020 — 21-1-12596-013

SHANNON & WILSON — FIG. B-40A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S

0 100
Feet

LEGEND

Sample Location *= Deep Aquifer
Sample Location - Decommissioned or Inaccessible
Sample Location w/ Analytical Result
Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
Approximate Area LNAPL Plume
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 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.

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Seattle, Washington

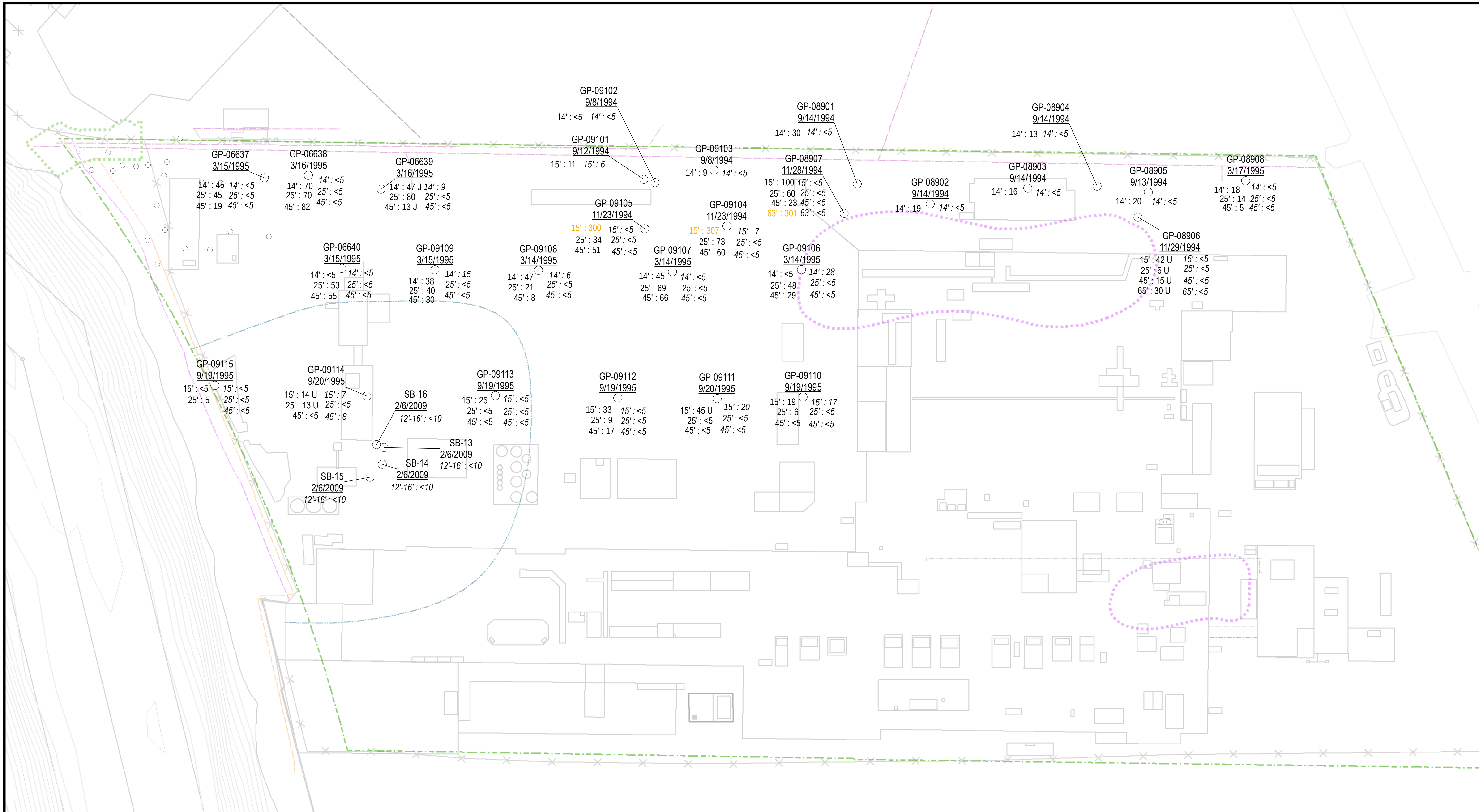
CHROMIUM (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-40B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

○ Sample Location

○ Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for chromium is 100 µg/L.

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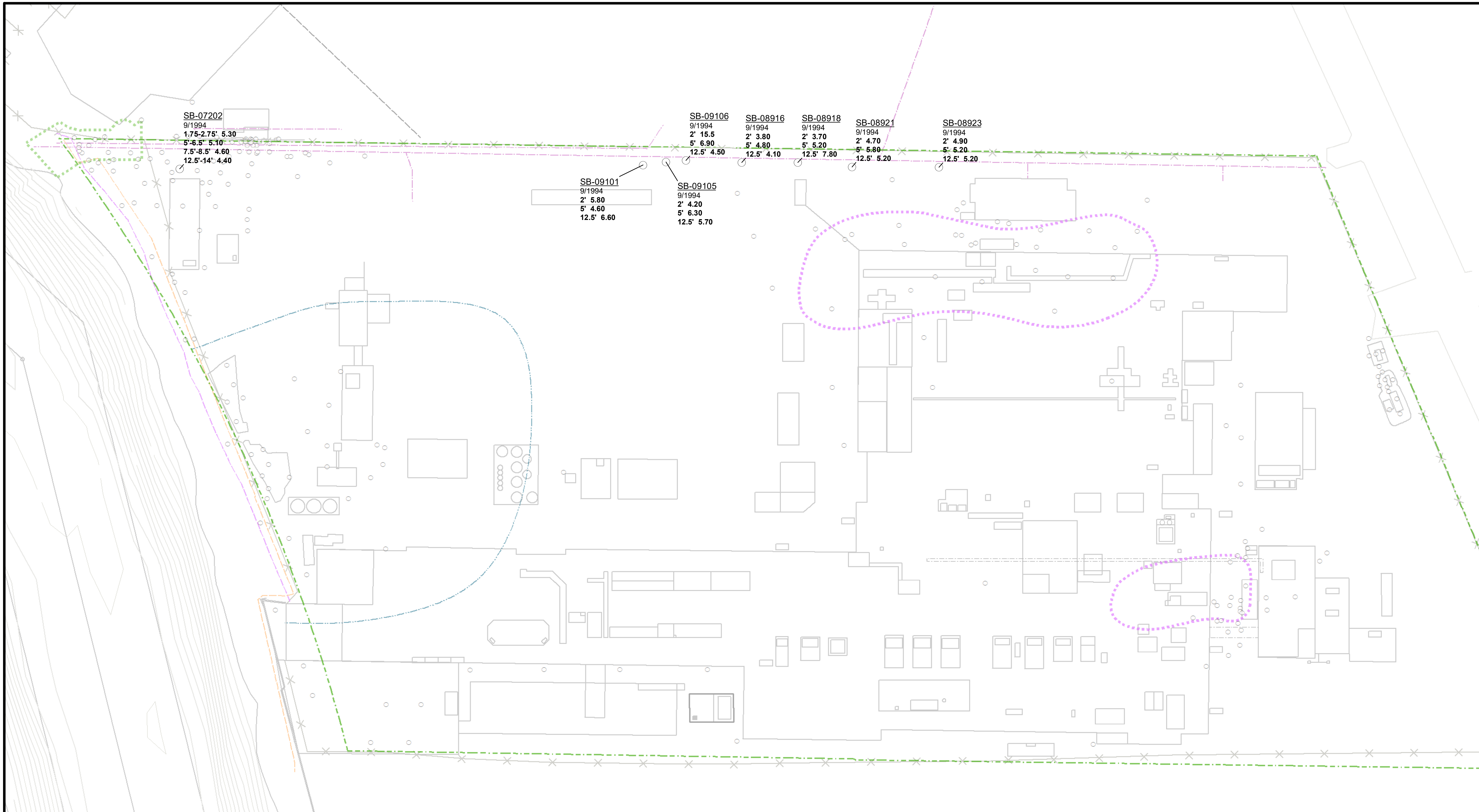
CHROMIUM (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

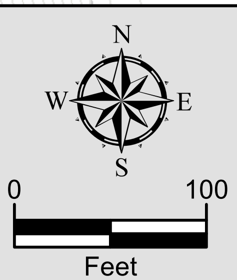
March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-40C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL





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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for cobalt is 20 mg/kg.

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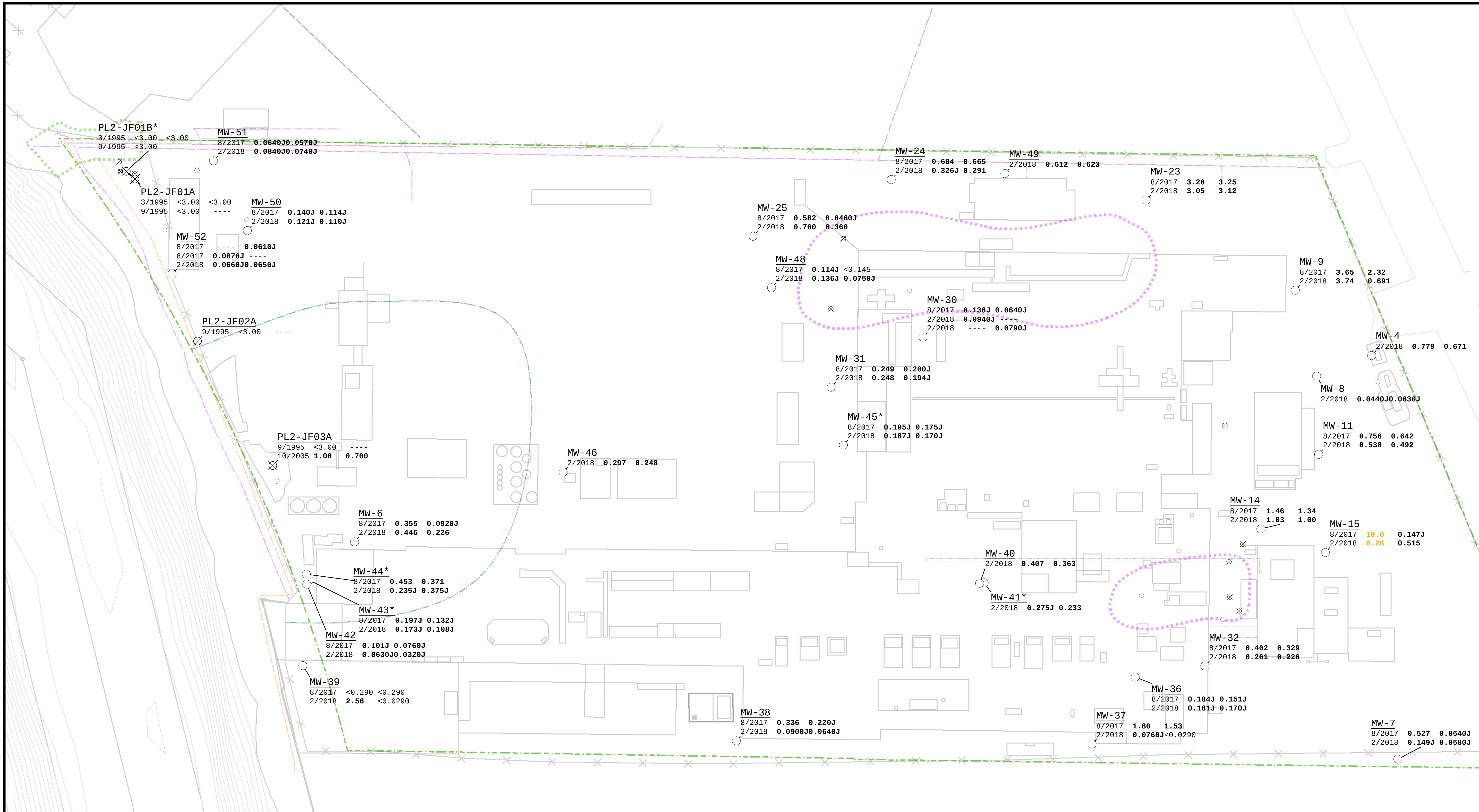
COBALT IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | **FIG. B-41A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



LEGEND

- Sample Location *= Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 cobalt is 4.8 µg/L.

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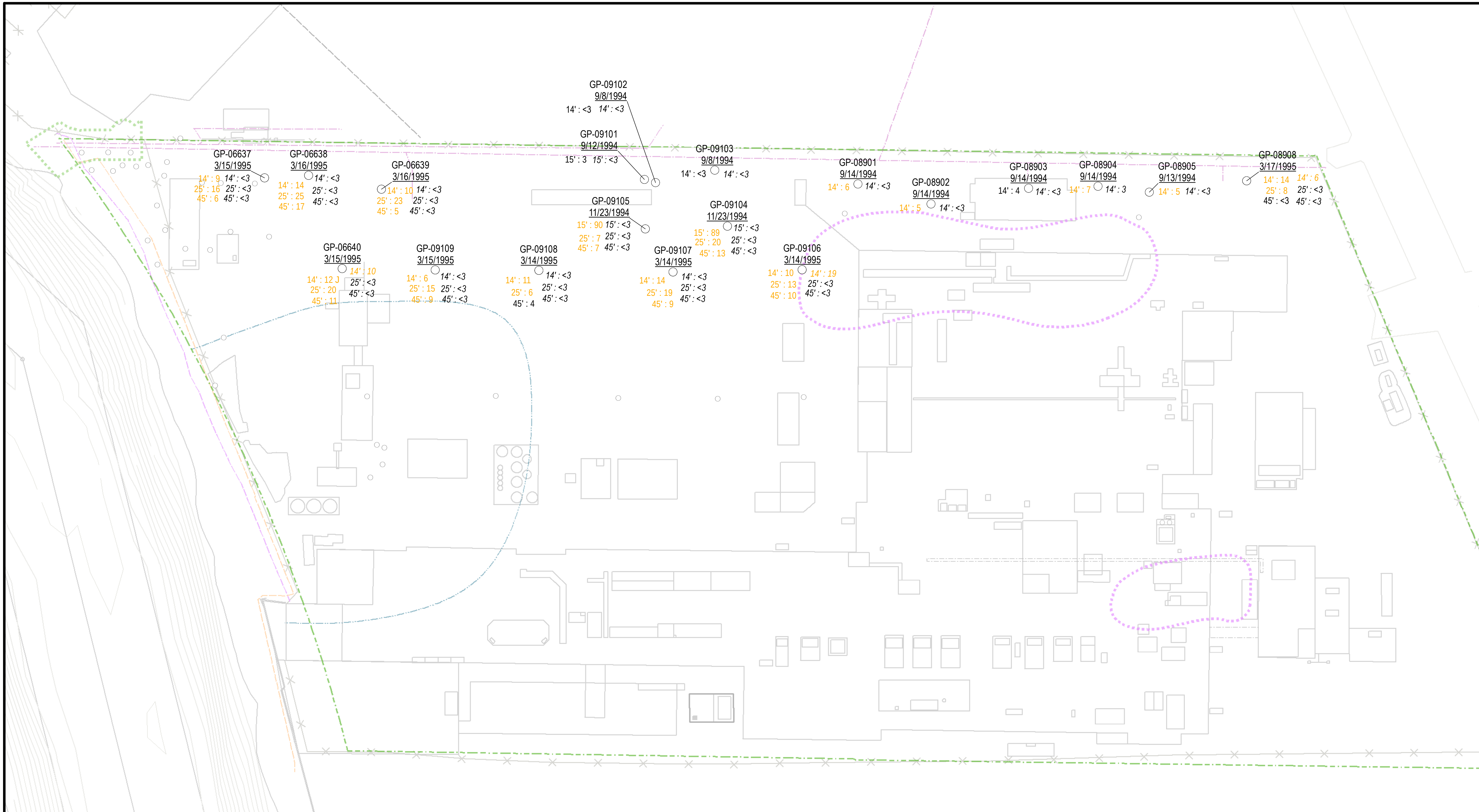
COBALT (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-41B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location

Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for cobalt is 4.8 µg/L.

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Seattle, Washington

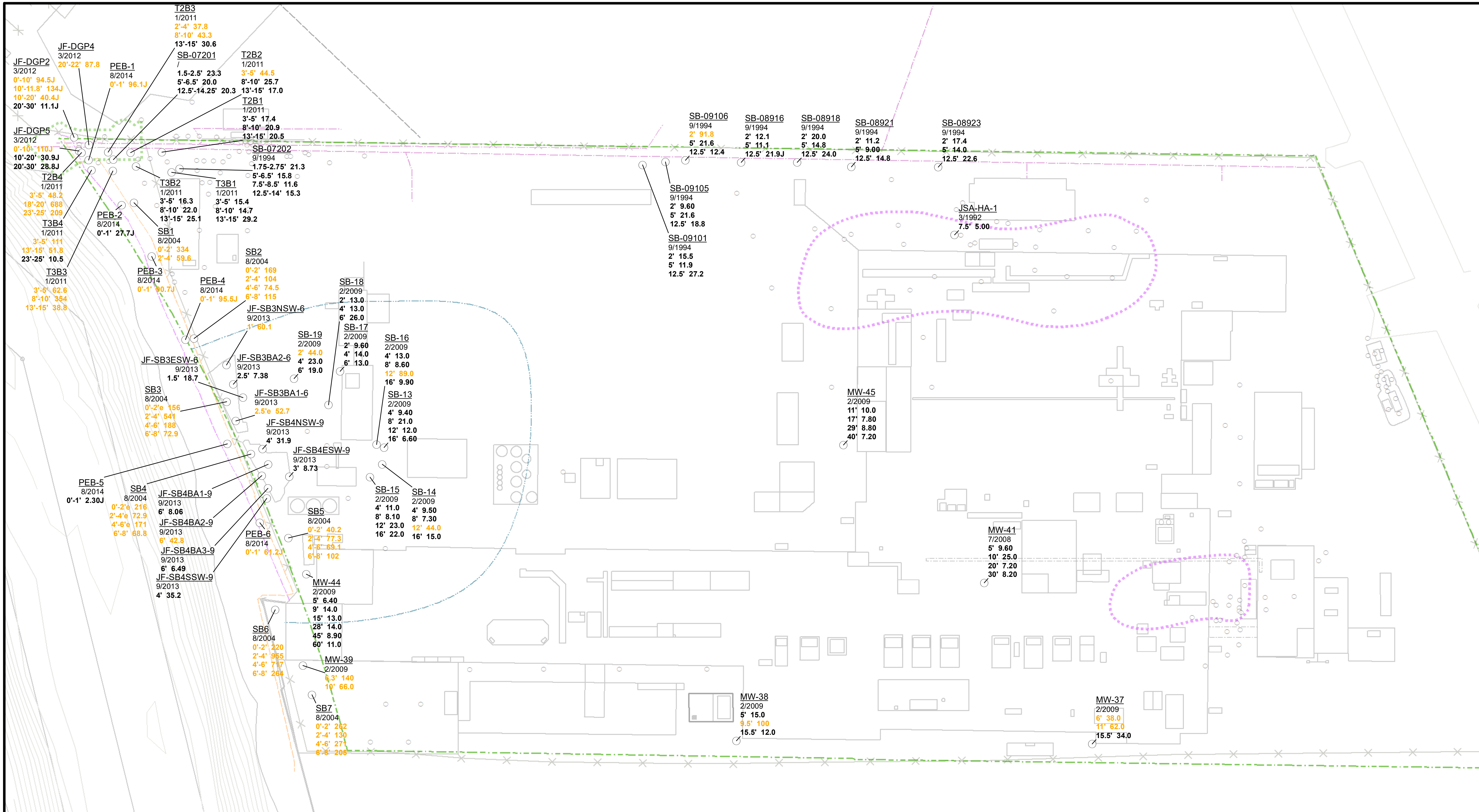
COBALT (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-41C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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
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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for copper is 36 mg/kg.

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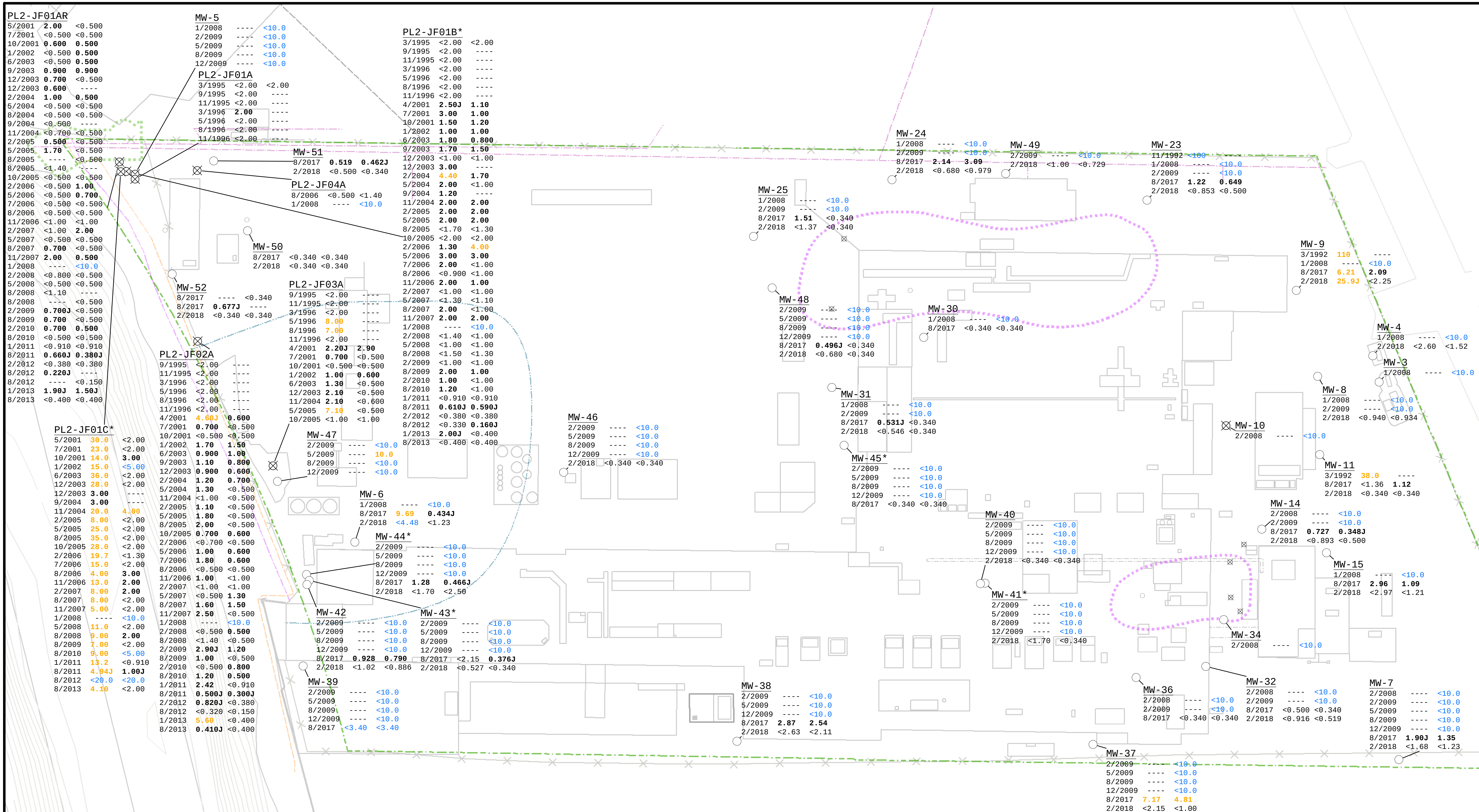
COPPER IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-42A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND
Sample Location * = *Deep Aquifer*
Sample Location - Decommissioned or Inaccessible
Sample Location w/ Analytical Result
Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
Approximate Area LNAPL Plume
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 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.

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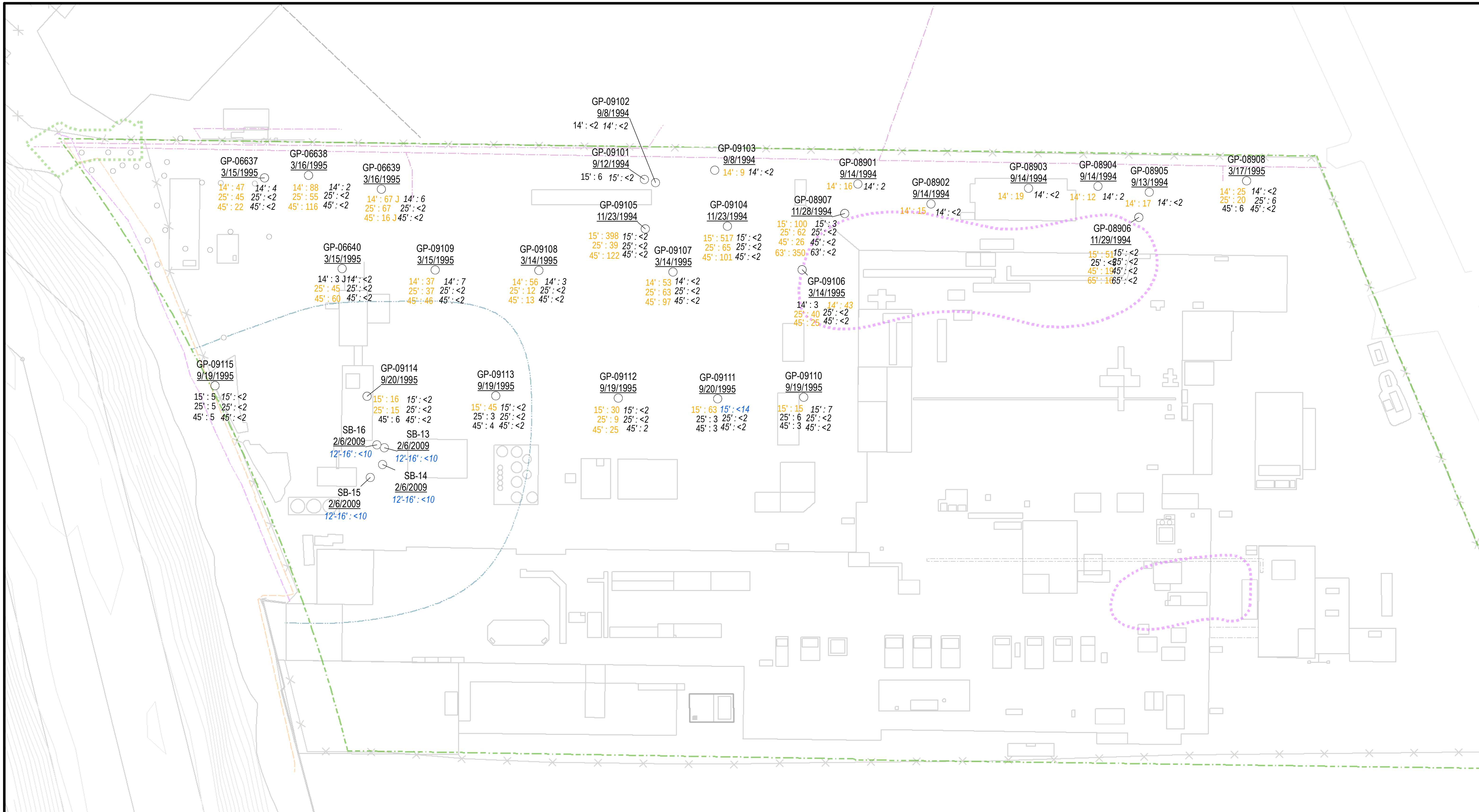
COPPER (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-42B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

○ Sample Location

○ Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for copper is 8 µg/L.

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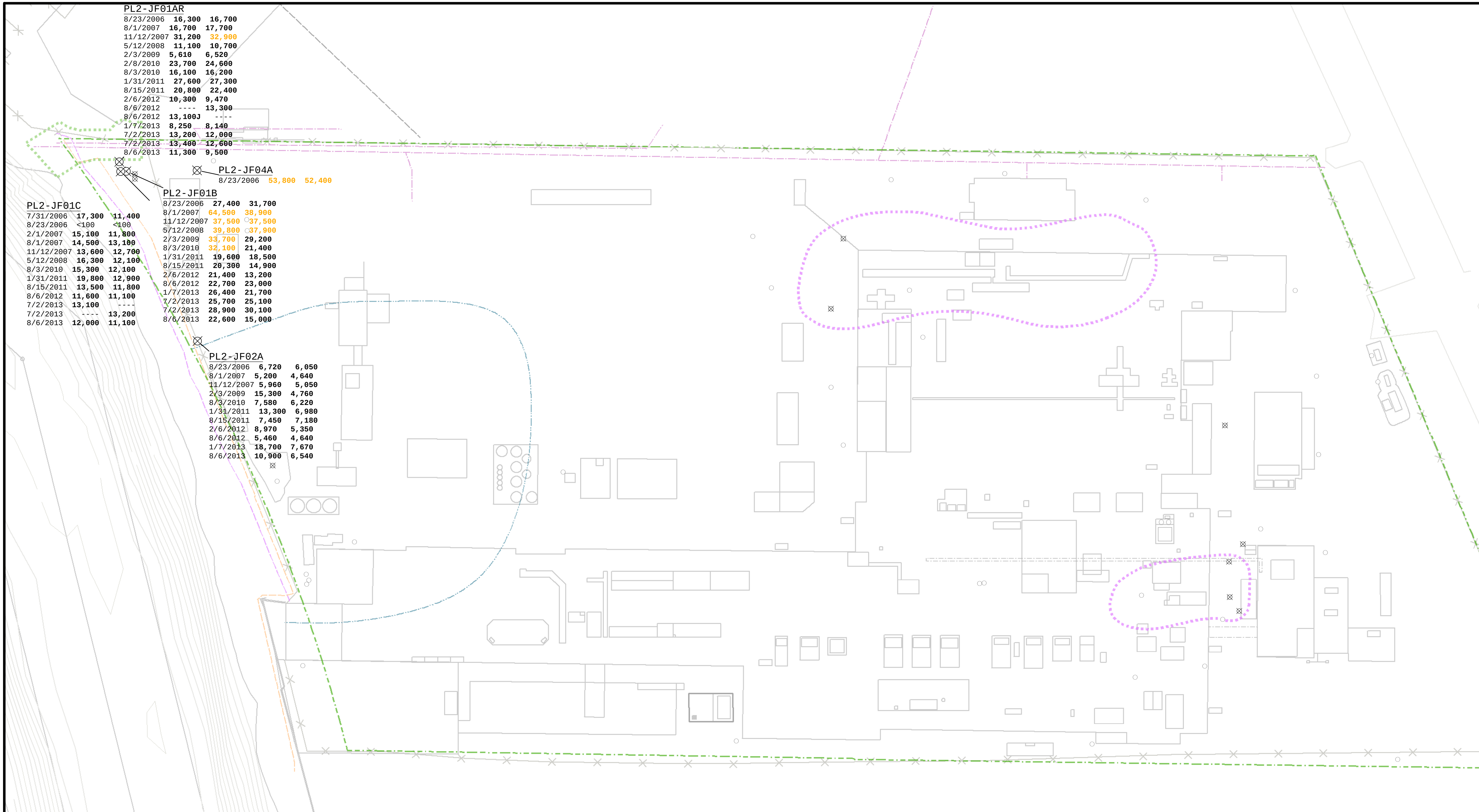
COPPER (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-42C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 natural background concentration for iron is 32,000 µg/L.

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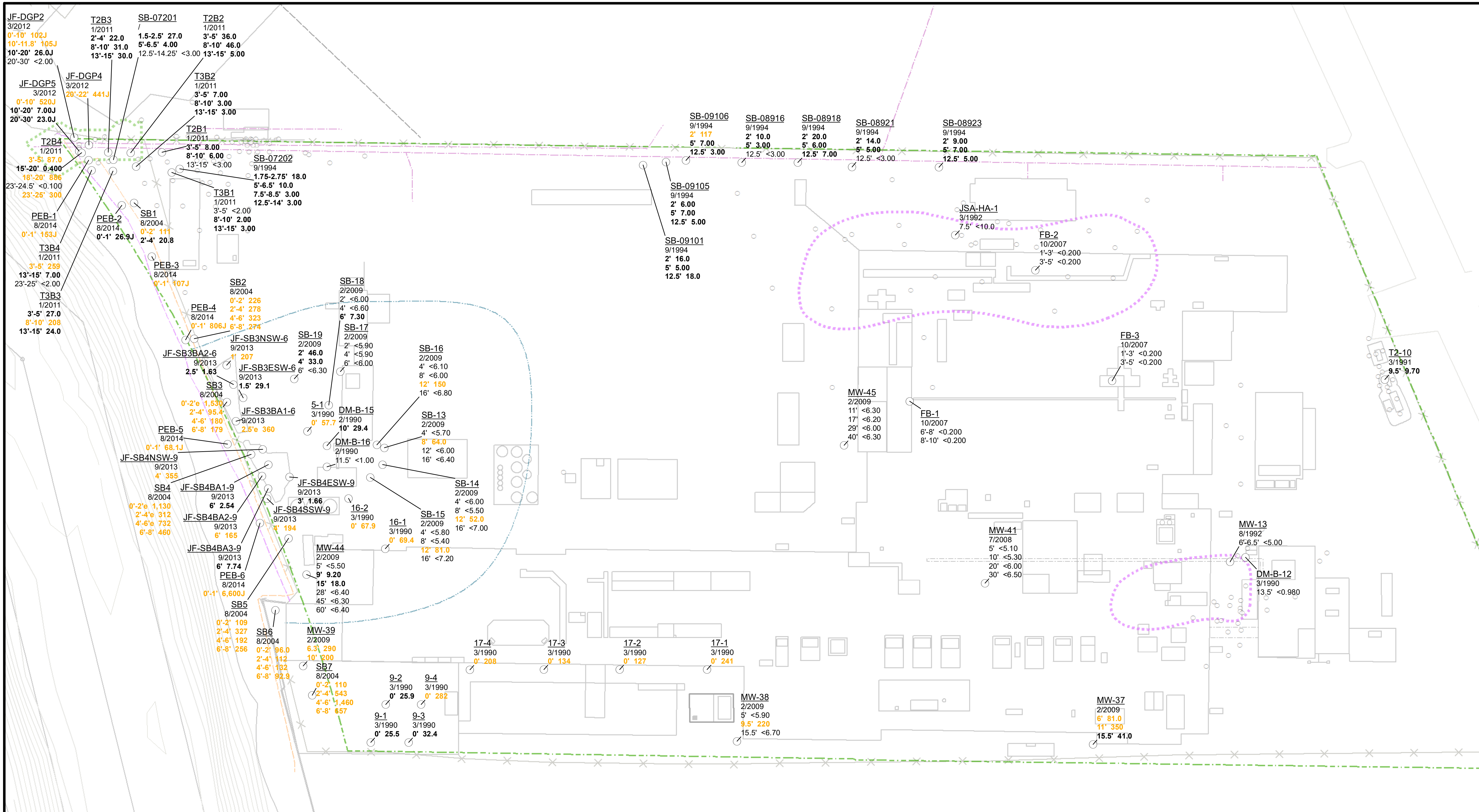
IRON (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. 43B

Filename: L:\Users\skh\POC_R3\Results_Water_43B.mxd Date: 3/17/2020 BRL



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
- 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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for lead is 50 mg/kg.

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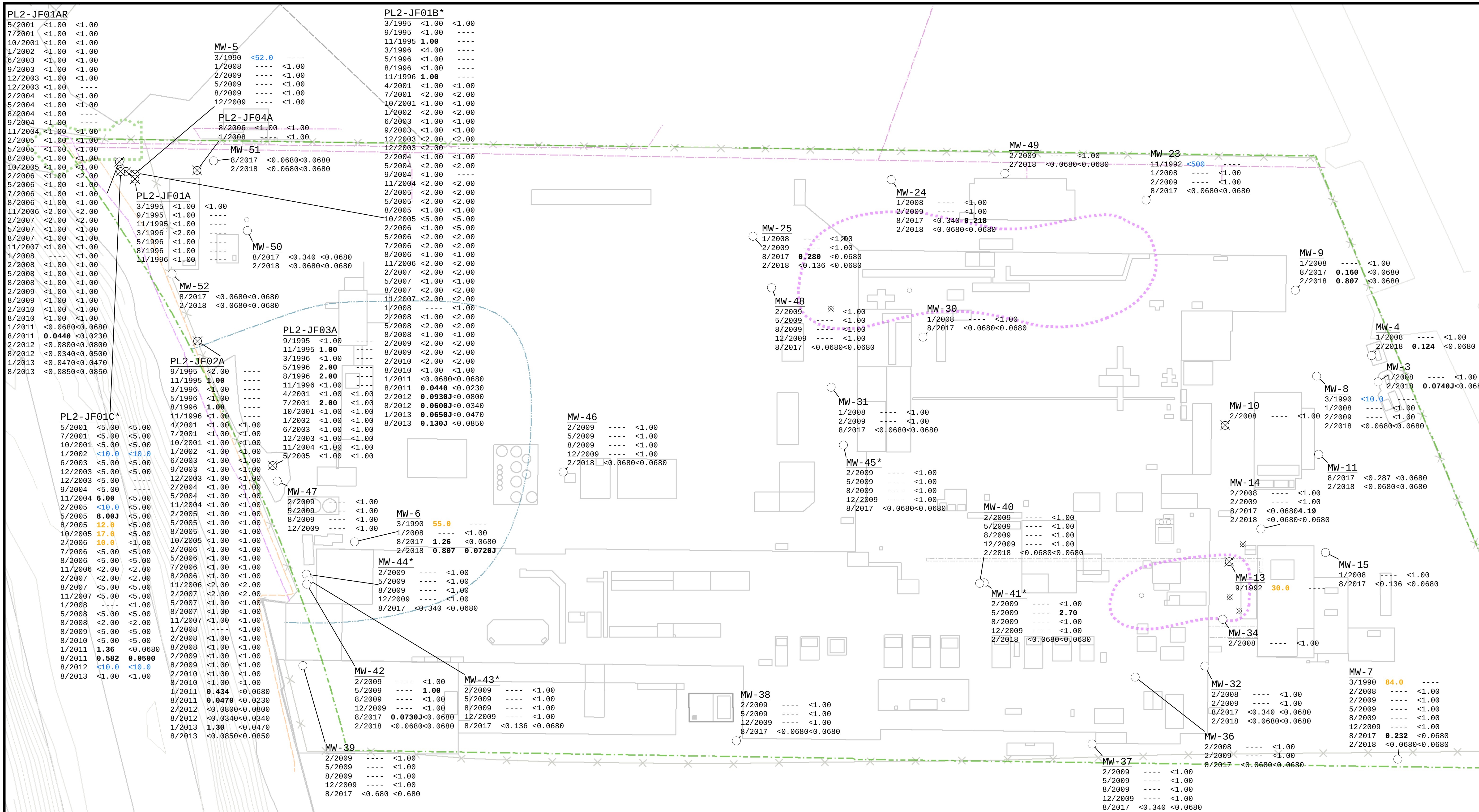
LEAD IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-44A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 8.1 µg/L.

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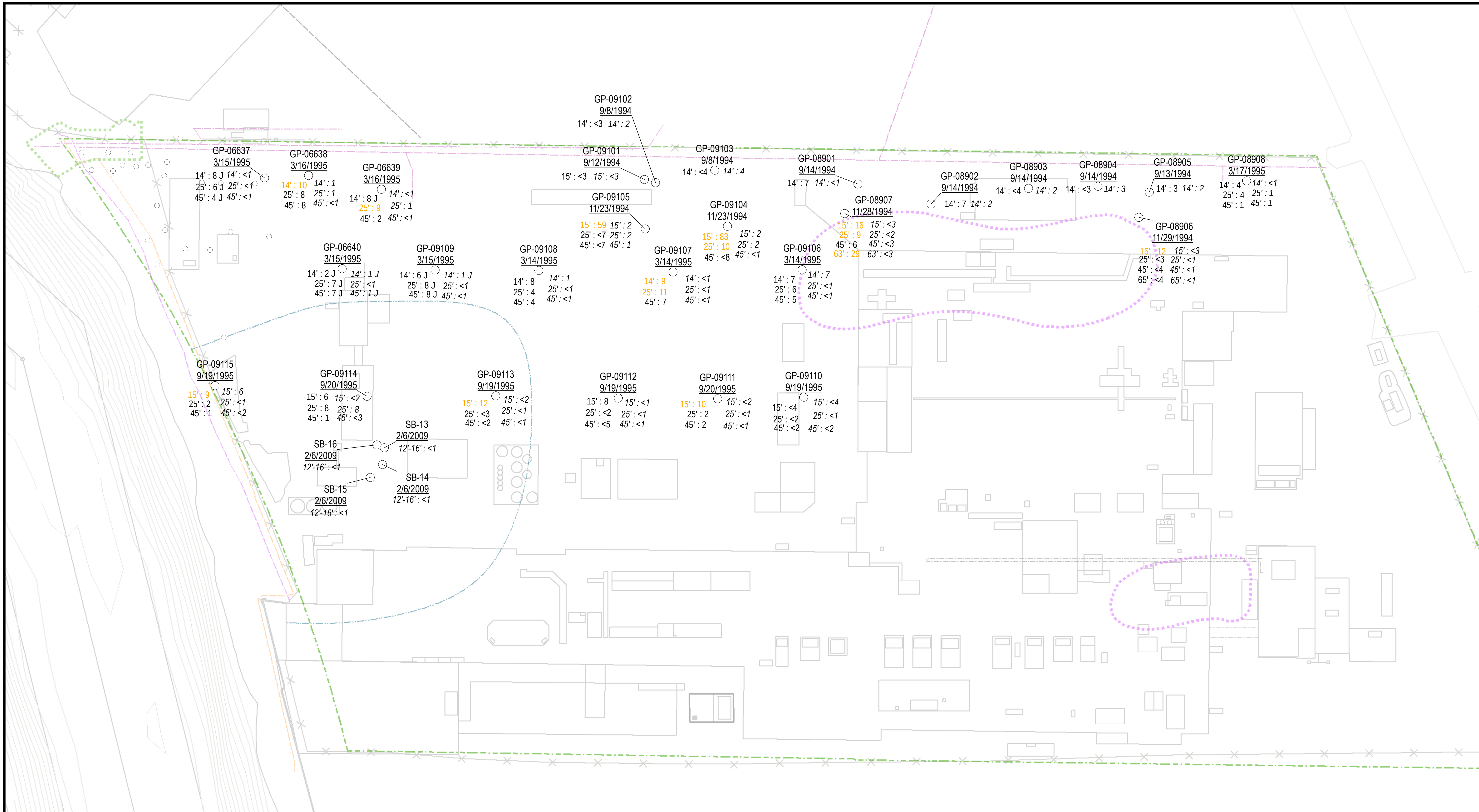
LEAD (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-44B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S

0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for lead is 8.1 µg/L.

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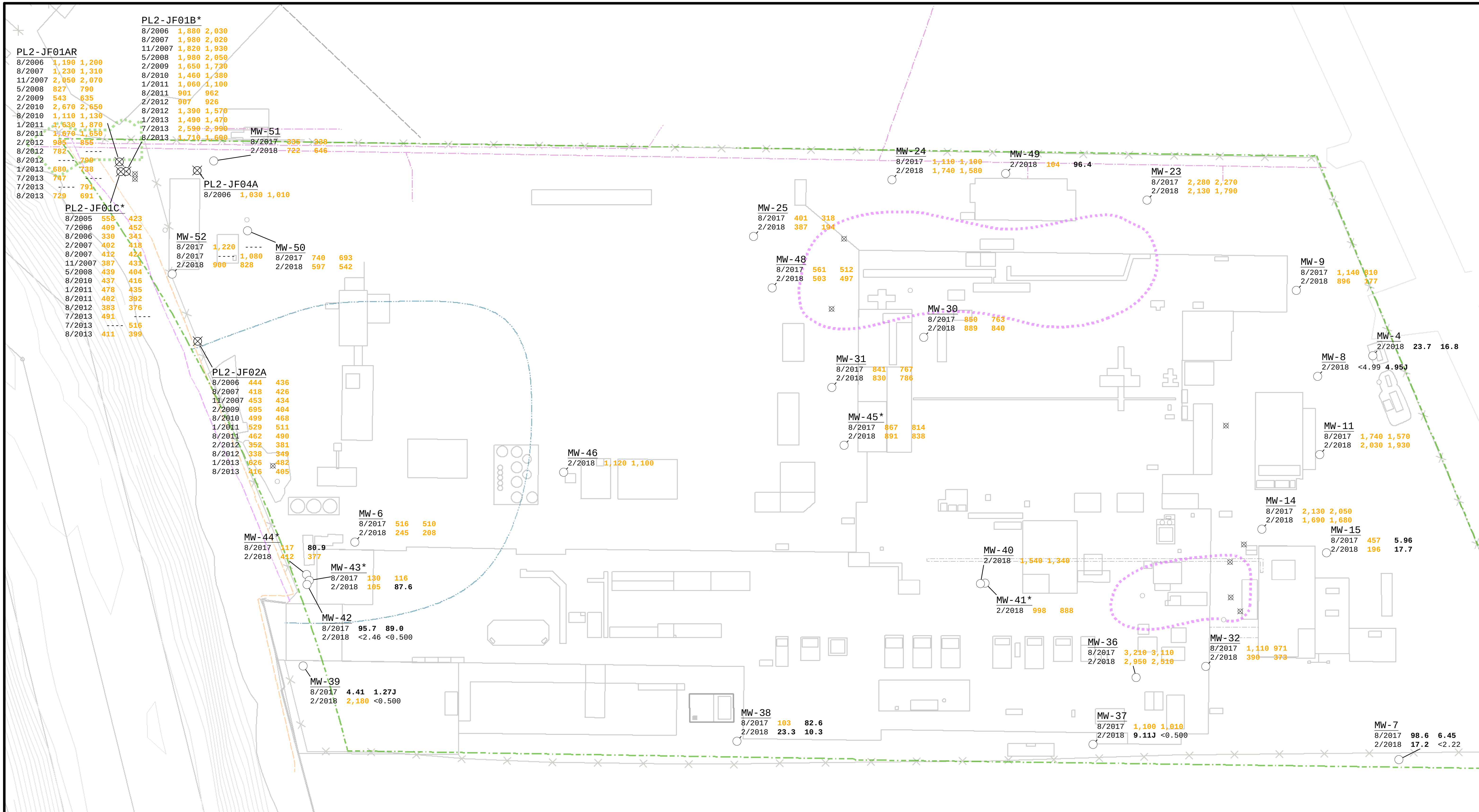
LEAD (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-44C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 manganese is 100 µg/L.

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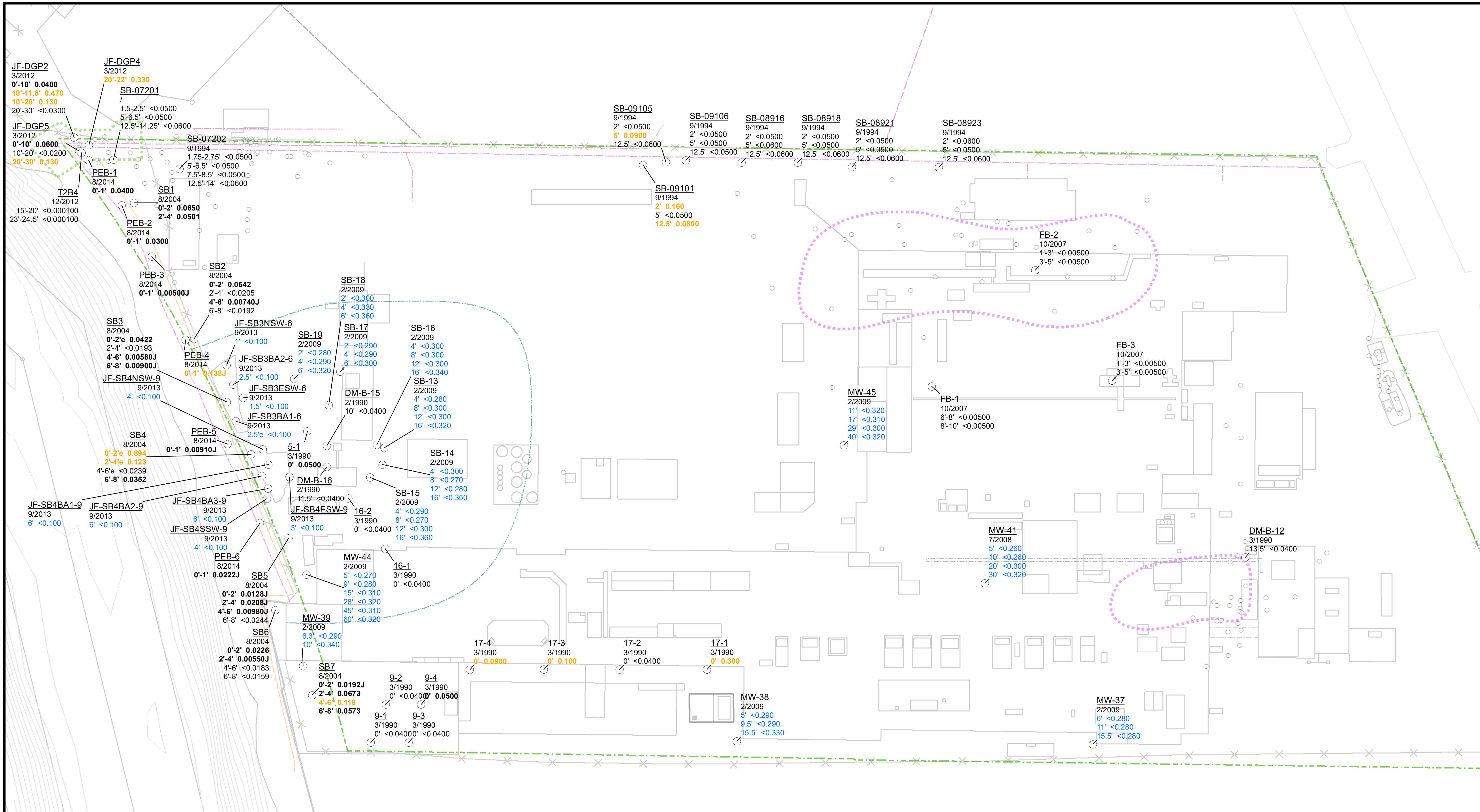
MANGANESE (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-45B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



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

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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for mercury is 0.07 mg/kg.

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MERCURY IN SOIL

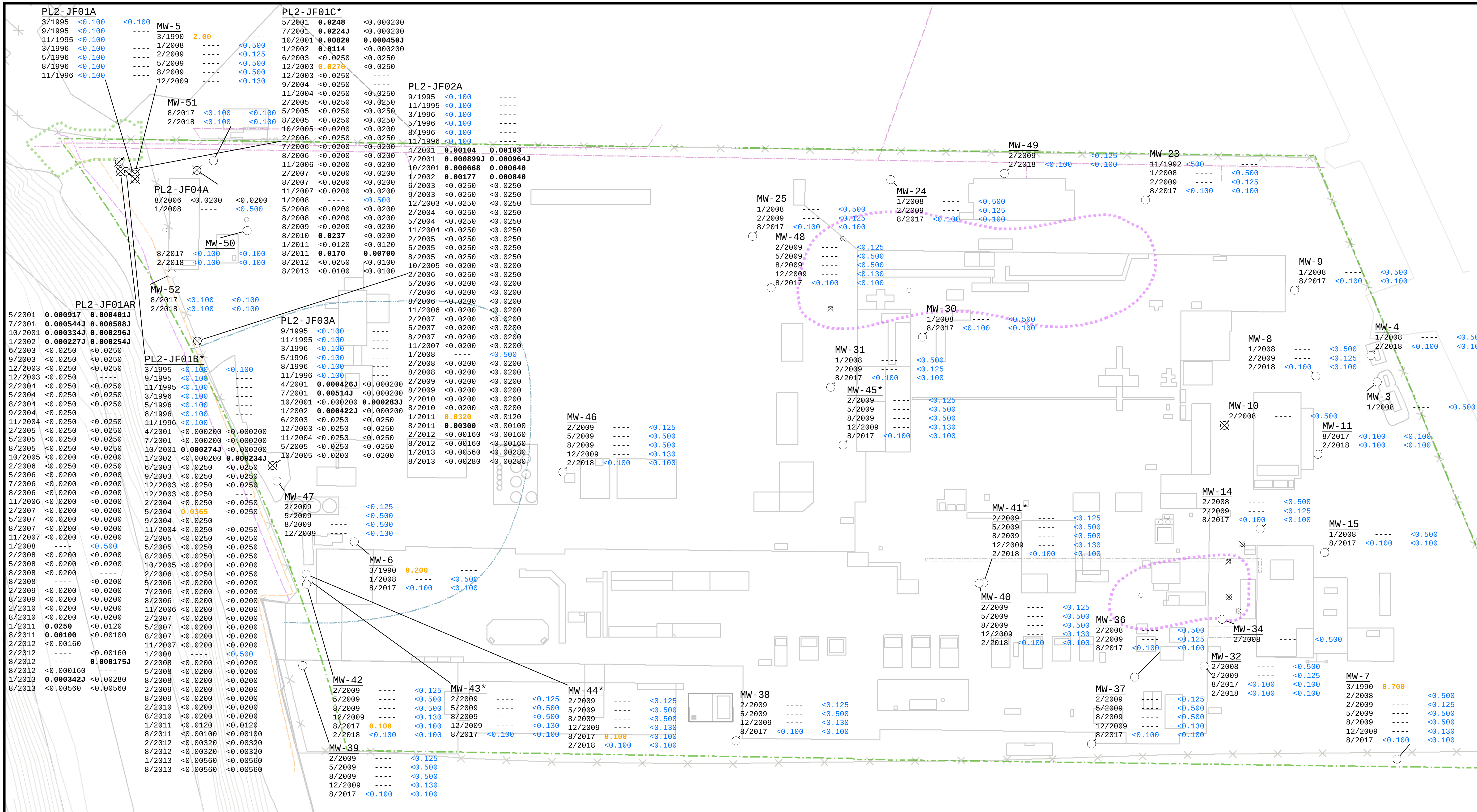
March 2020

21-1-12596-013

SHANNON & WILSON

FIG. B-46A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location * = Deep Aquifer
Sample Location - Decommissioned or Inaccessible
Sample Location w/ Analytical Result
Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
Approximate Area LNAPL Plume
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 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 mercury is 0.025 µg/L.

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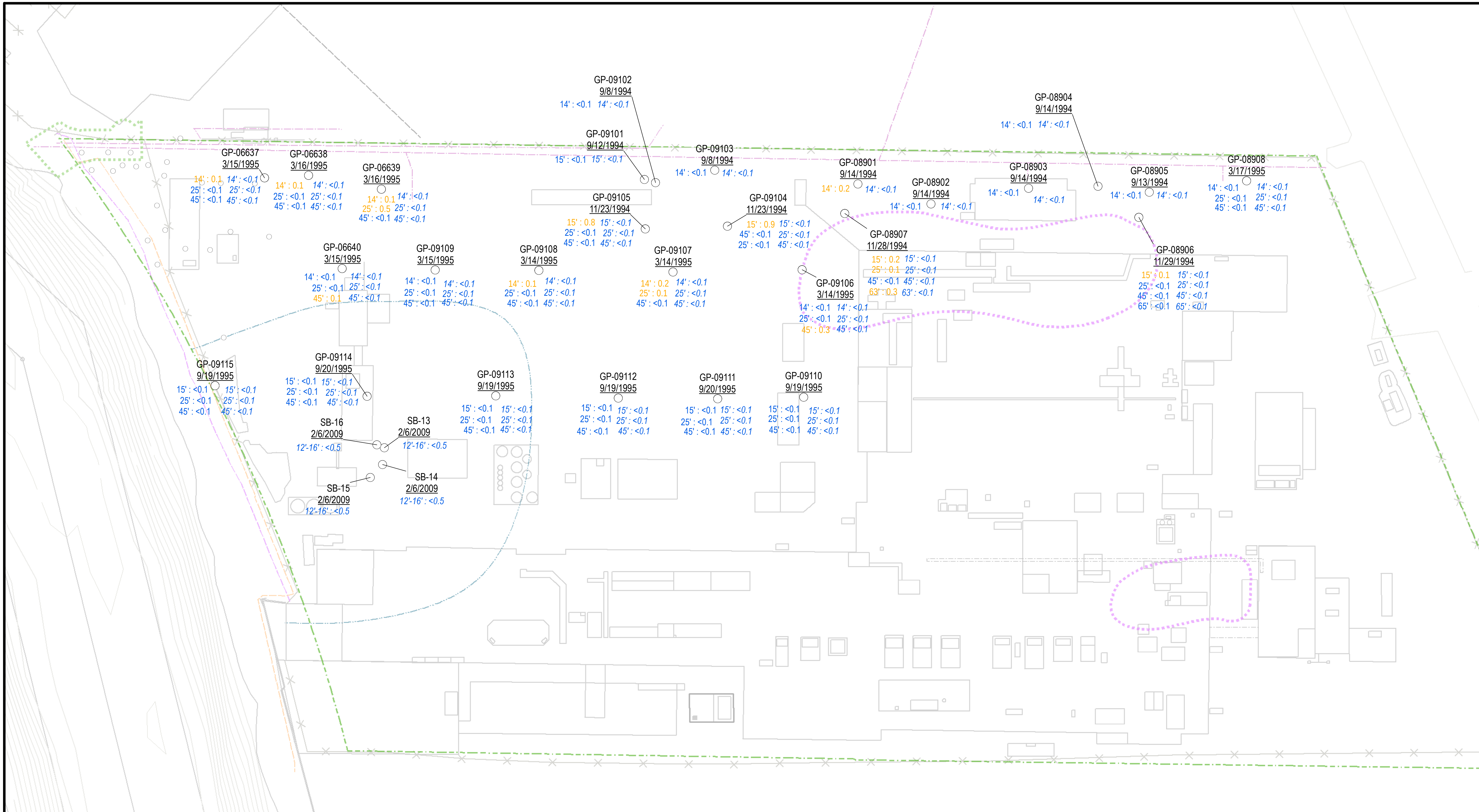
MERCURY (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-46B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S

0 100
Feet

LEGEND

○ Sample Location

○ Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for mercury is 0.025 µg/L.

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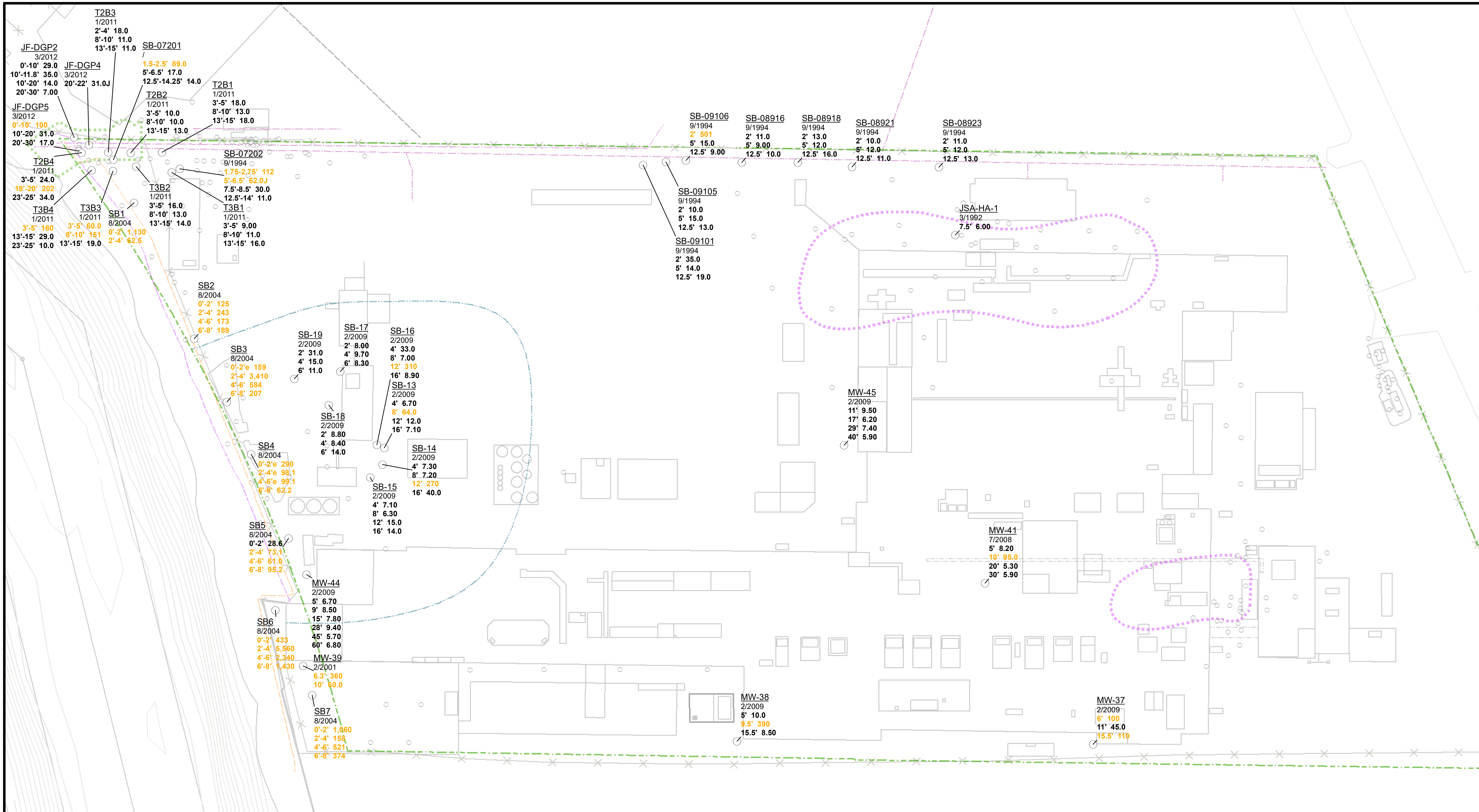
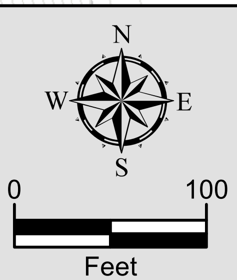
MERCURY (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-46C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL





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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for nickel is 48 mg/kg.

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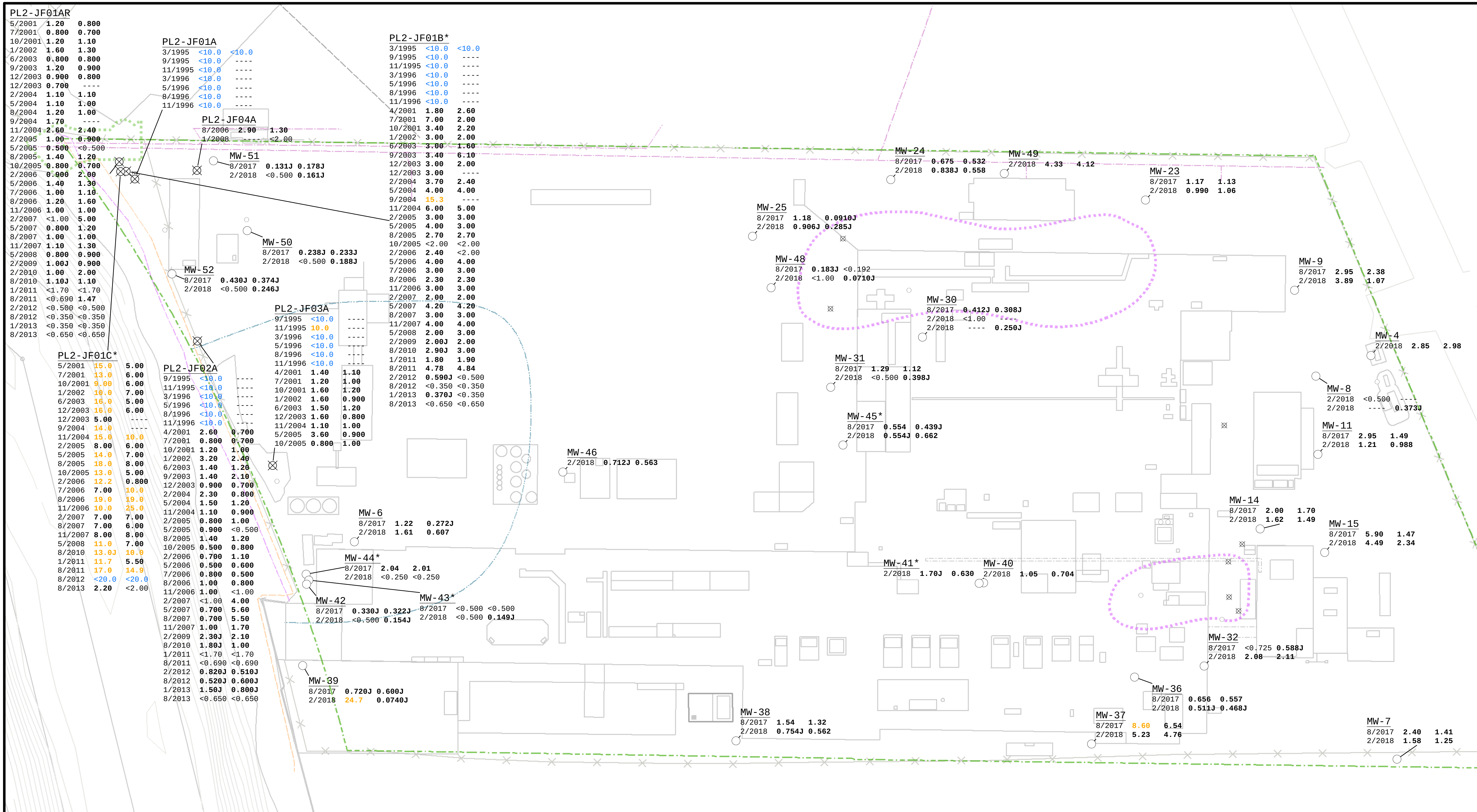
NICKEL IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | **FIG. B-47A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

Sample Location * = *Deep Aquifer*

Sample Location - Decommissioned or Inaccessible

Sample Location w/ Analytical Result

Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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

Approximate Area LNAPL Plume

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 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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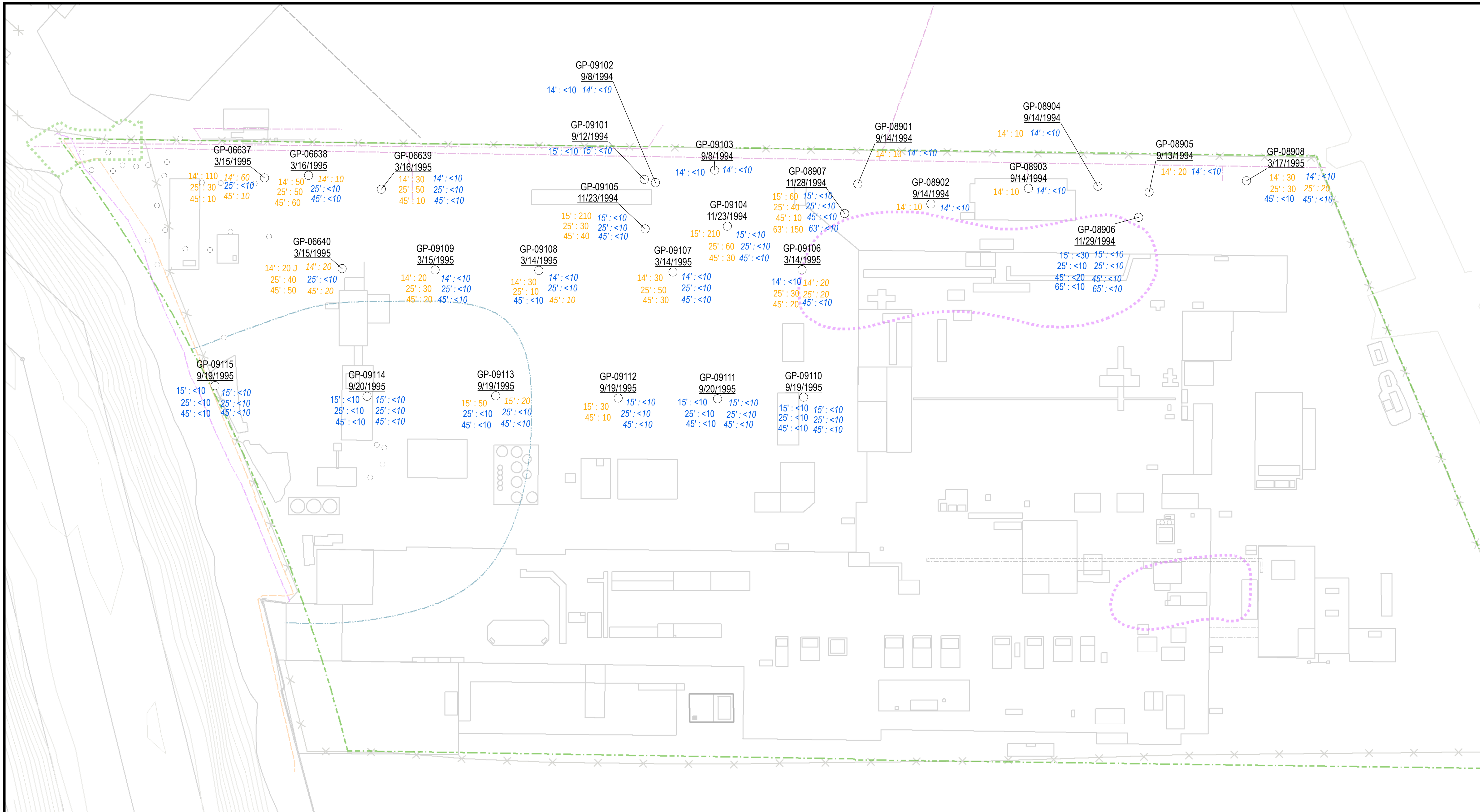
NICKEL (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-47B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N W E S

0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for nickel is 8.2 µg/L.

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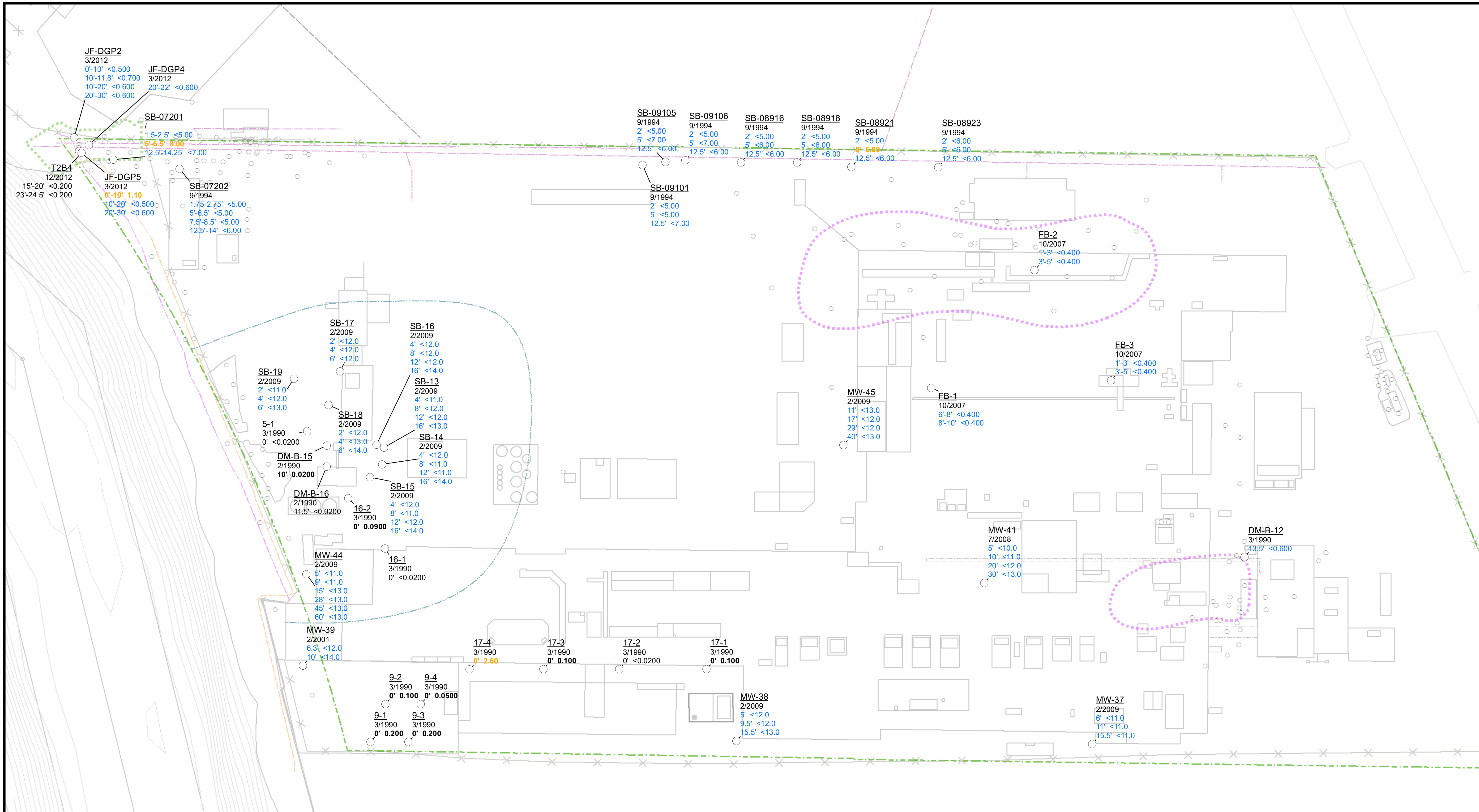
NICKEL (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-47C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for selenium is 0.3 mg/kg.

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SELENIUM IN SOIL

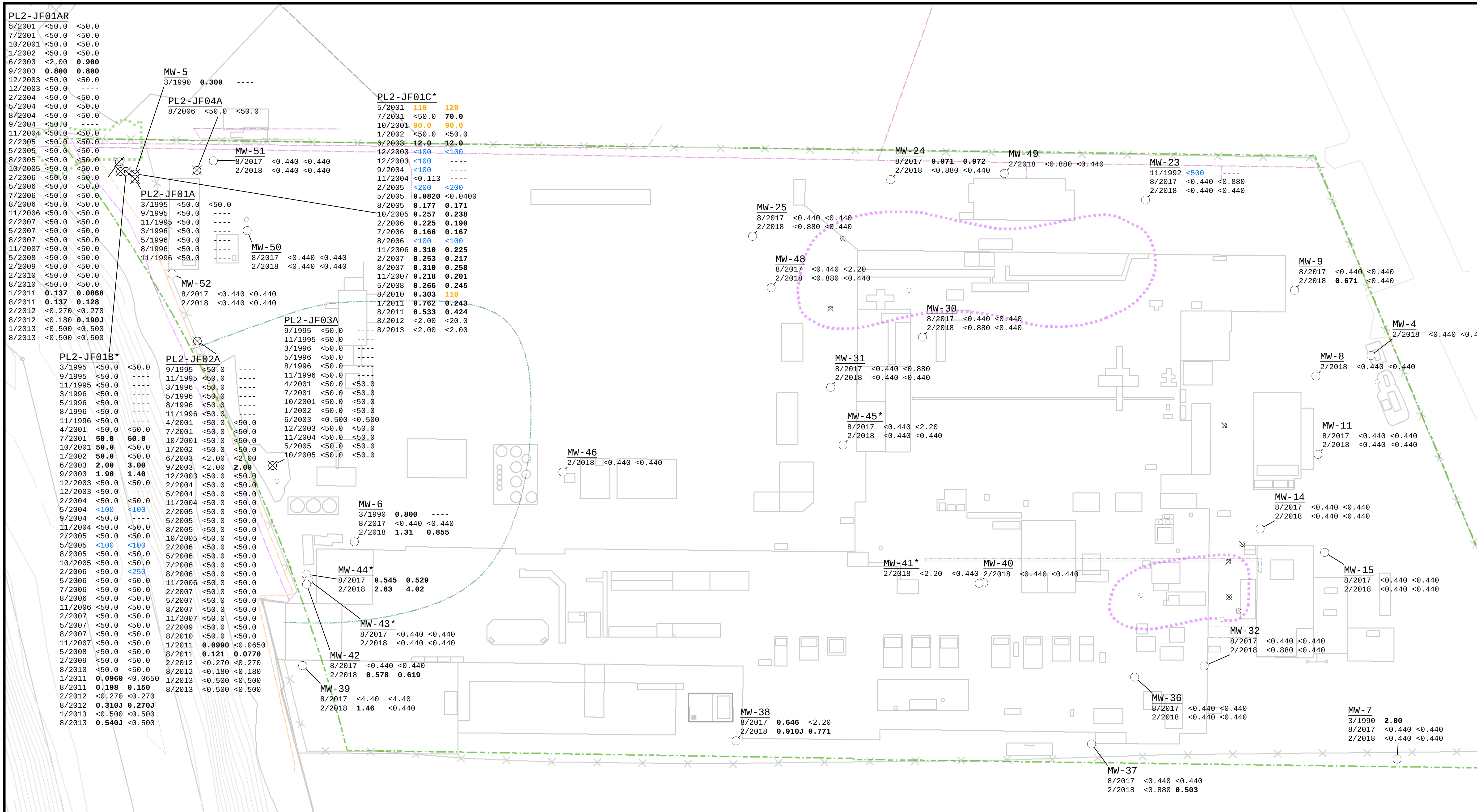
March 2020

21-1-12596-013

SHANNON & WILSON

FIG. B-48A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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.

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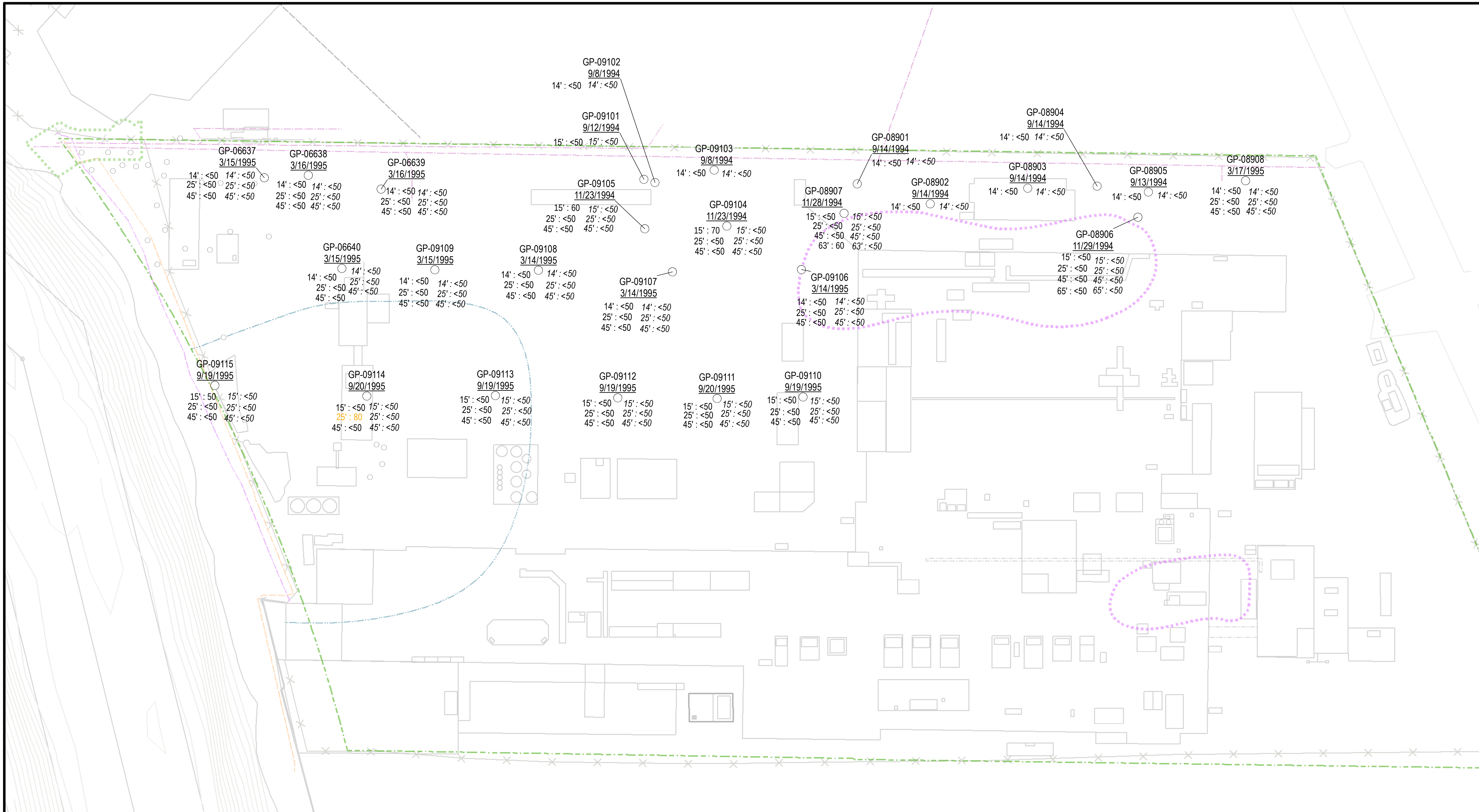
SELENIUM (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-48B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for selenium is 71 µg/L.

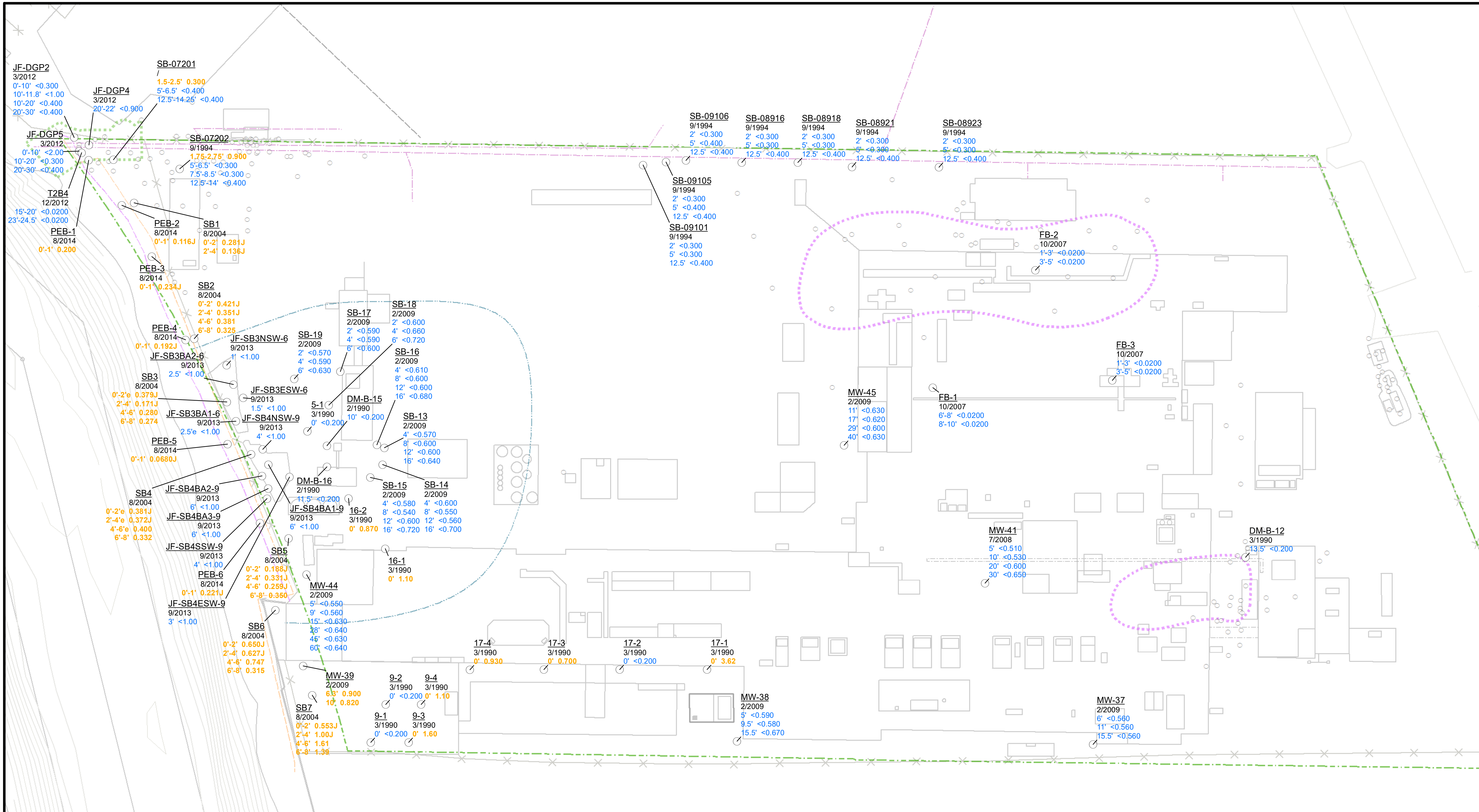
Jorgensen Forge Facility, 8531 East Marginal Way S
Seattle, Washington

SELENIUM (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-48C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for silver is 0.016 mg/kg.

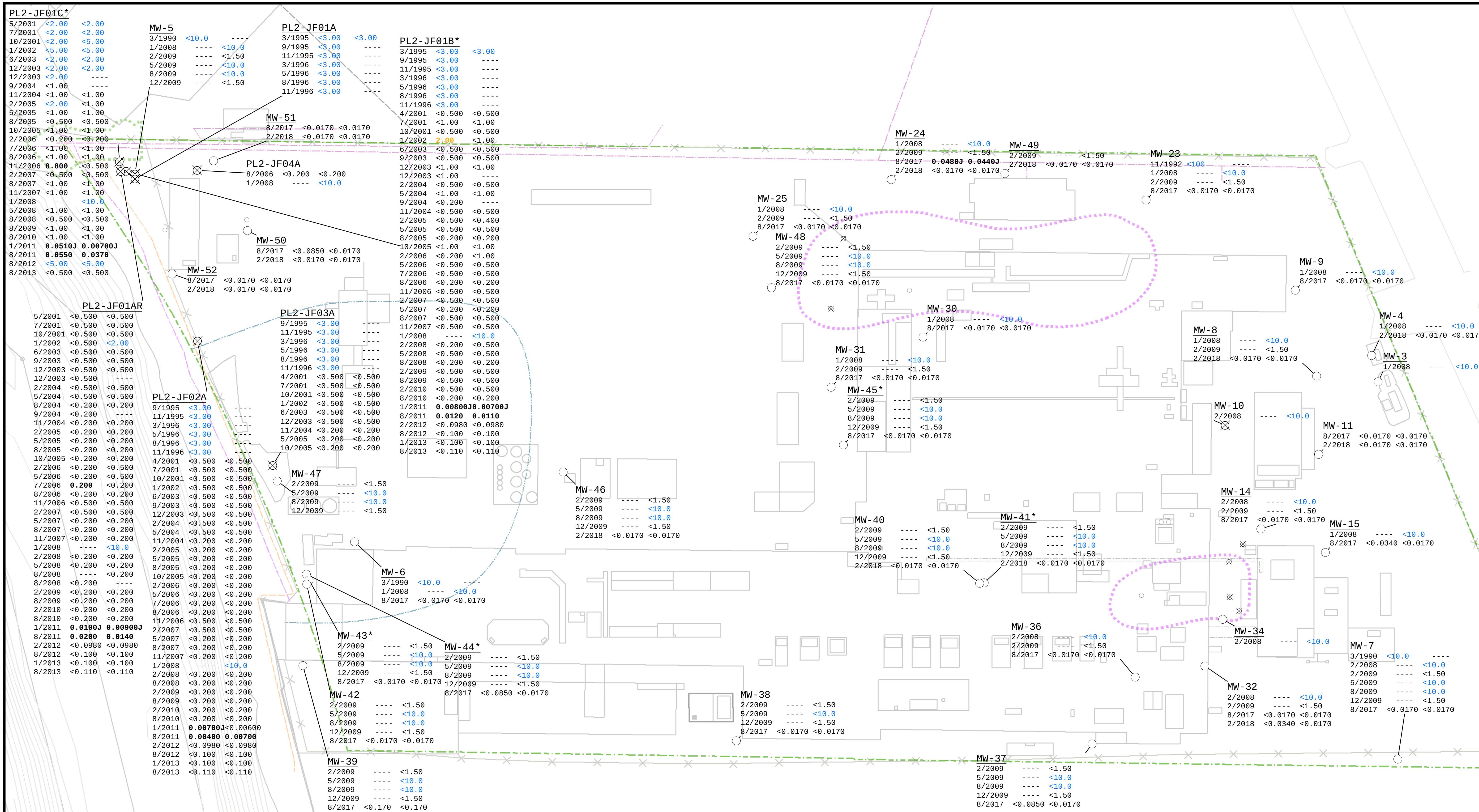
Jorgensen Forge Facility, 8531 East Marginal Way S
Seattle, Washington

SILVER IN SOIL

March 2020 | 21-1-12596-013

SHANNON & WILSON | **FIG. B-49A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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 silver is 1.9 µg/L.

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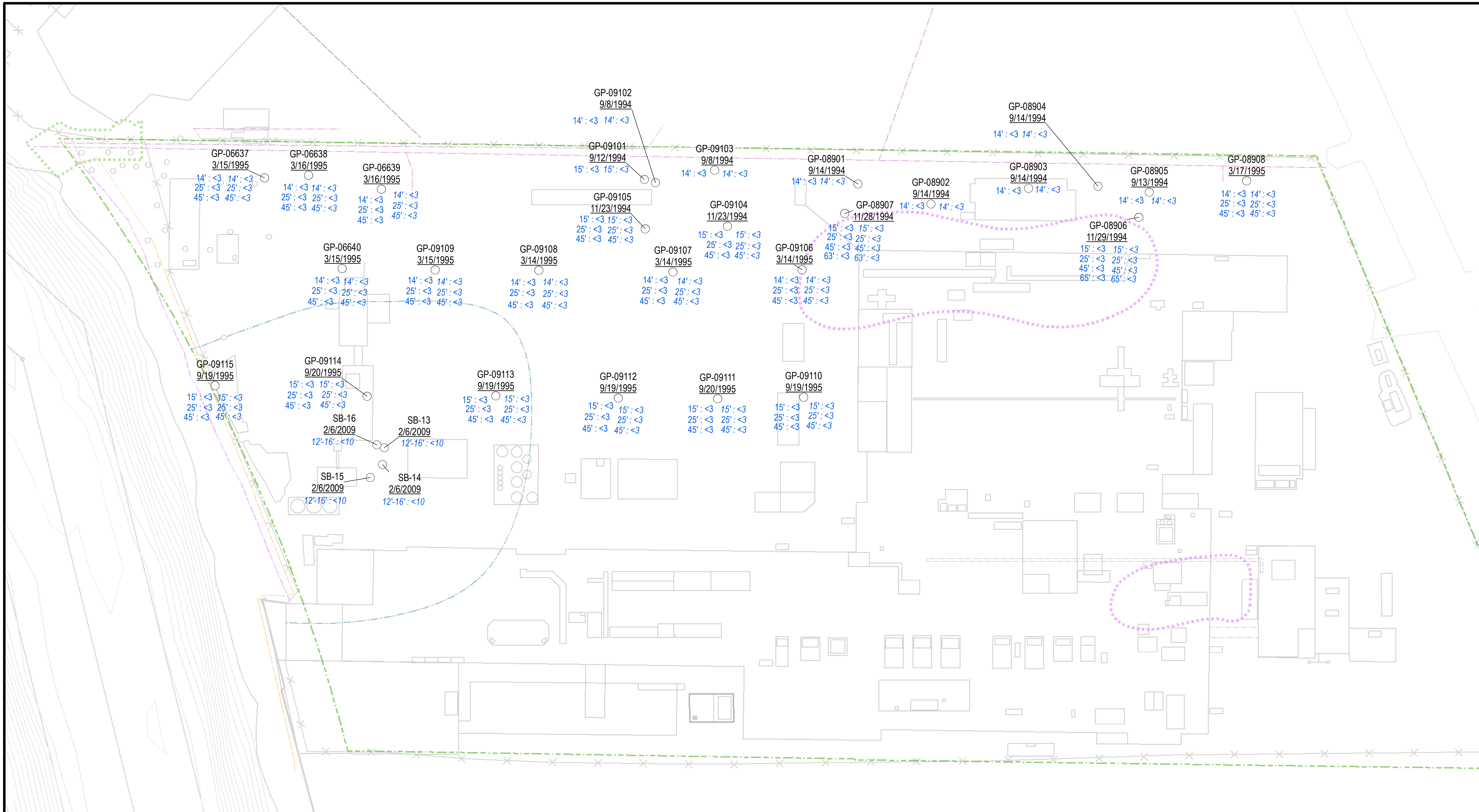
Seattle, Washington

SILVER (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-49B**

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location
- Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (μg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for silver is 1.9 μg/L.

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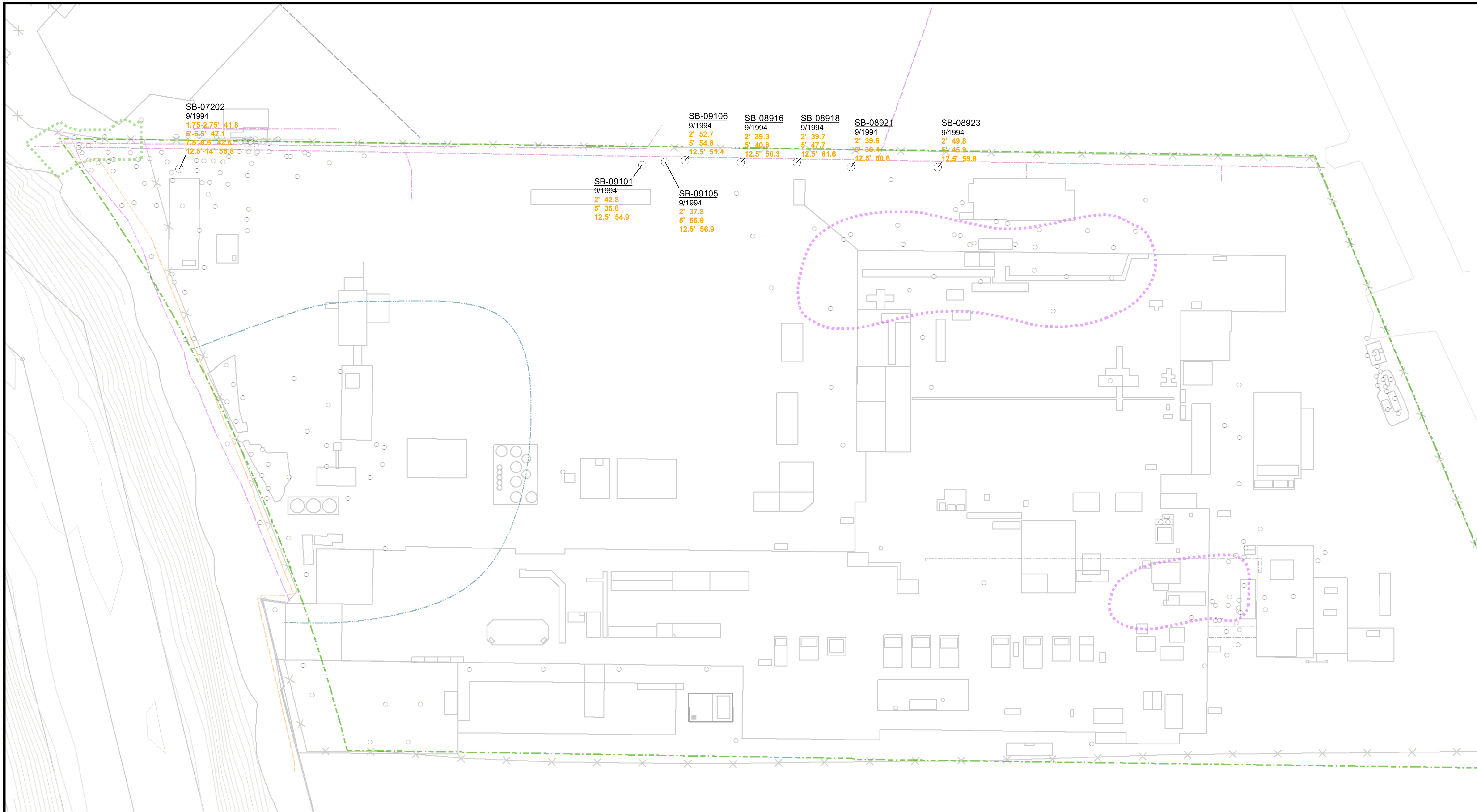
Seattle, Washington

SILVER (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON FIG. B-49C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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

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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for vanadium is 2 mg/kg.

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Seattle, Washington

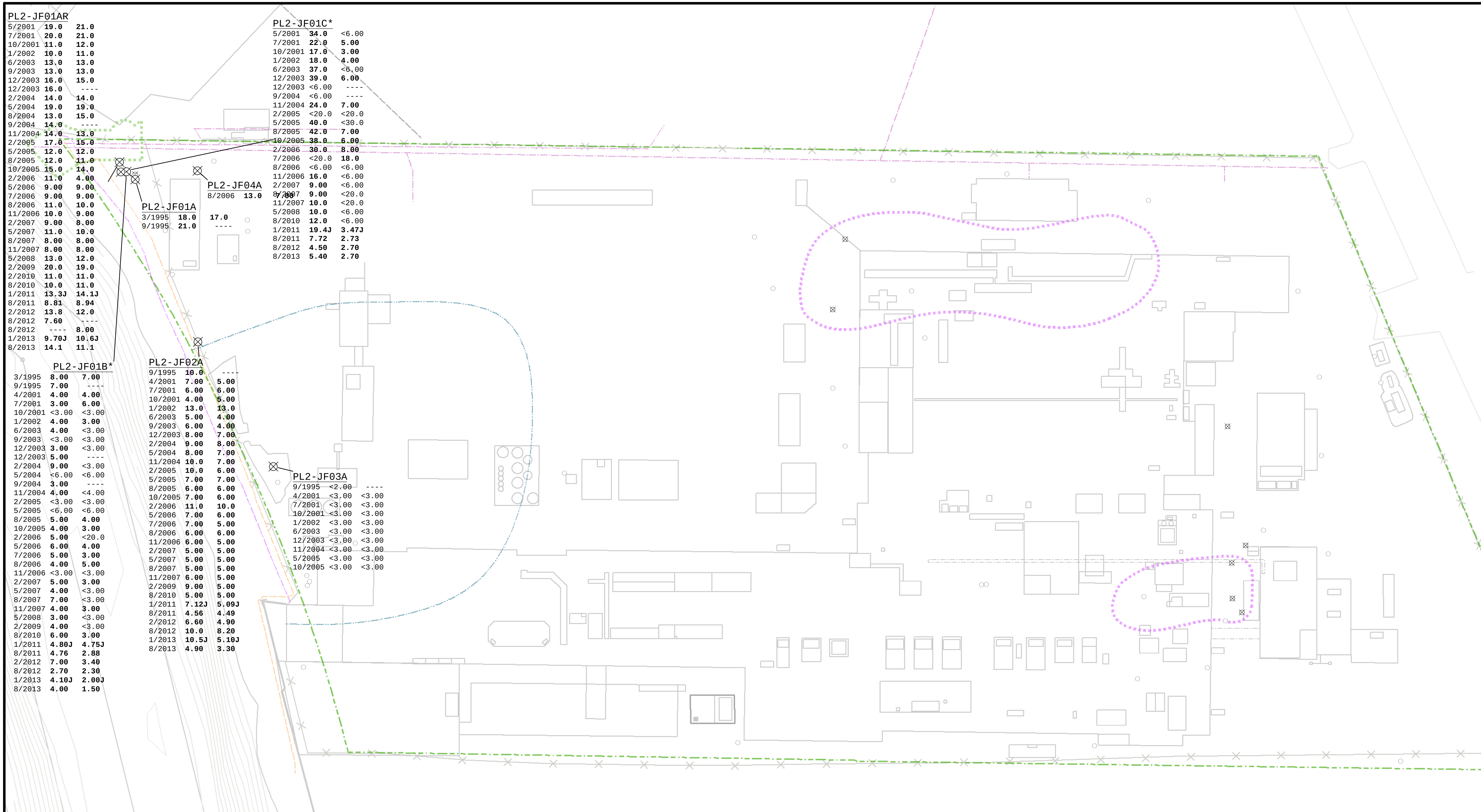
VANADIUM IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-50A

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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.

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Seattle, Washington

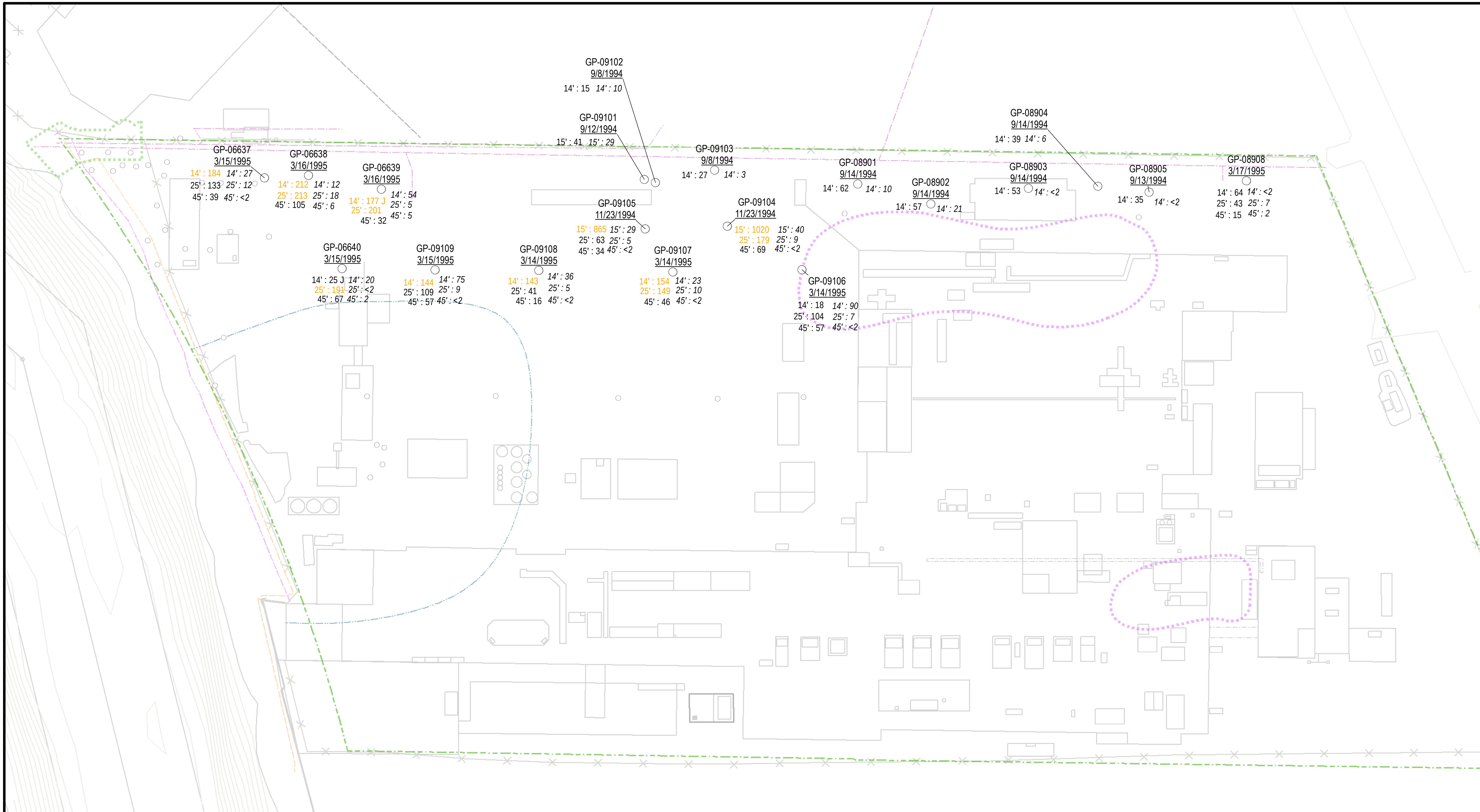
VANADIUM (TOTAL AND DISSOLVED) IN GROUNDWATER

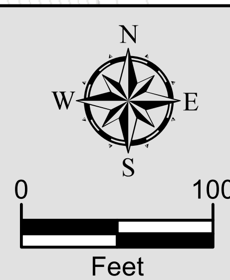
March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-50B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/24/2020 BRL





LEGEND

Sample Location

Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (μg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for vanadium is 140 μg/L.

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Seattle, Washington

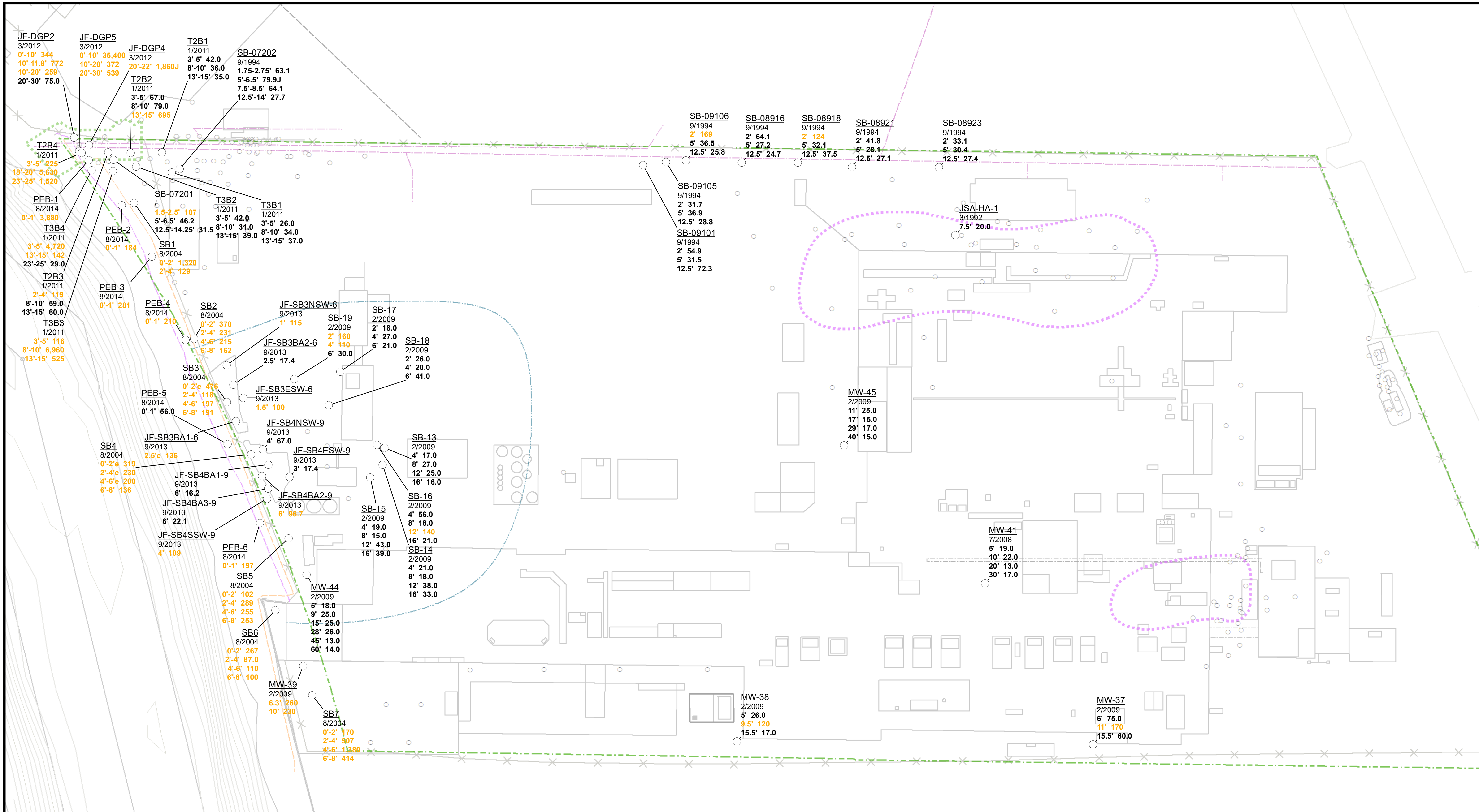
VANADIUM (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-50C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL



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 most stringent soil preliminary cleanup level for saturated zone soils and nonpotable groundwater (PCUL).
4. The PCUL for zinc is 85 mg/kg.

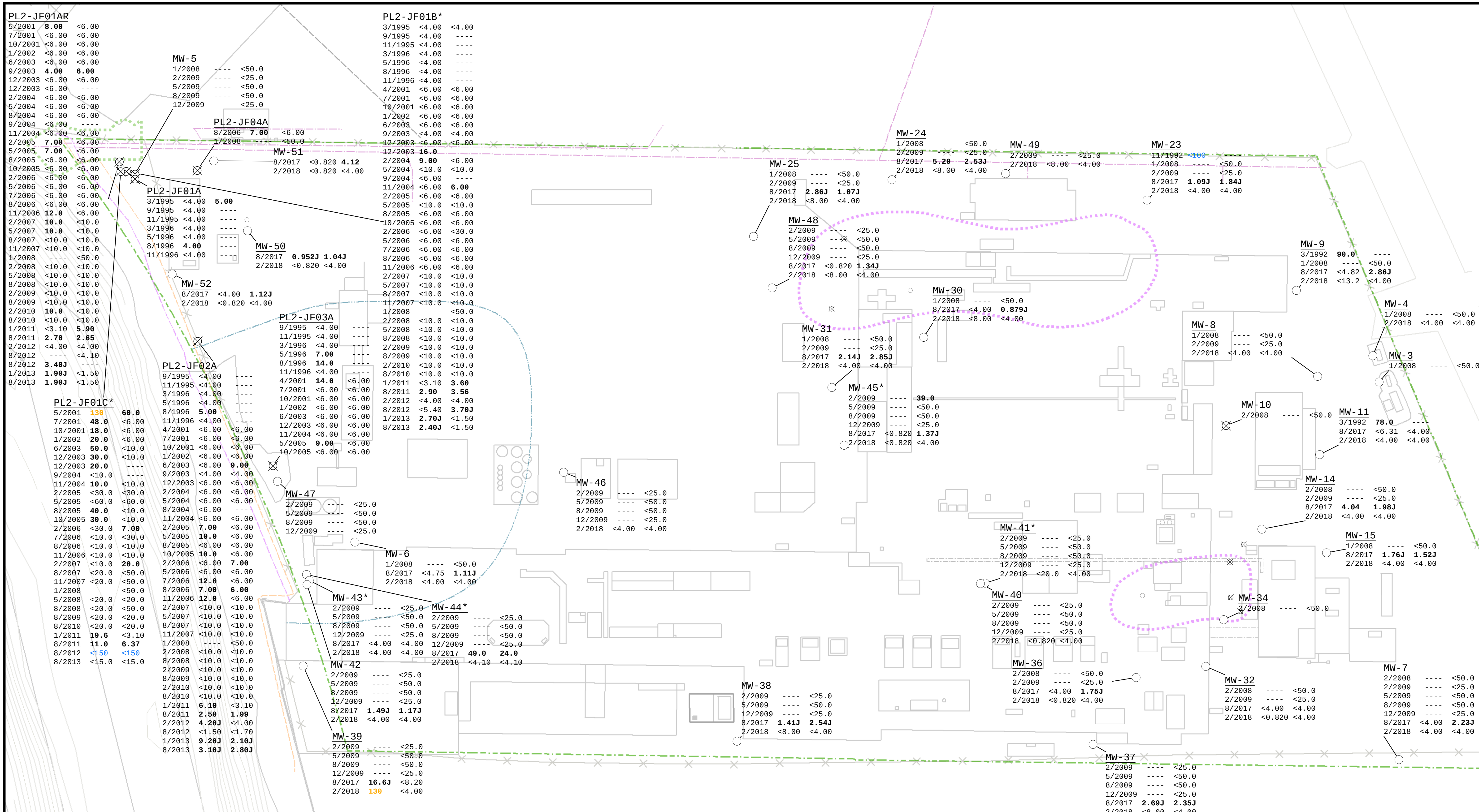
Jorgensen Forge Facility, 8531 East Marginal Way S
Seattle, Washington

ZINC IN SOIL

March 2020 21-1-12596-013

SHANNON & WILSON **FIG. B-51A**

Filename: L:\Users\skh\POC_R3\Results_Soil.mxd Date: 3/16/2020 BRL



N
W E
S
0 100
Feet

LEGEND

- Sample Location * = *Deep Aquifer*
- Sample Location - Decommissioned or Inaccessible
- Sample Location w/ Analytical Result
- Sample Location w/ Analytical Result & Decommissioned/Inaccessible

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
- Approximate Area LNAPL Plume
- 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 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.

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Seattle, Washington

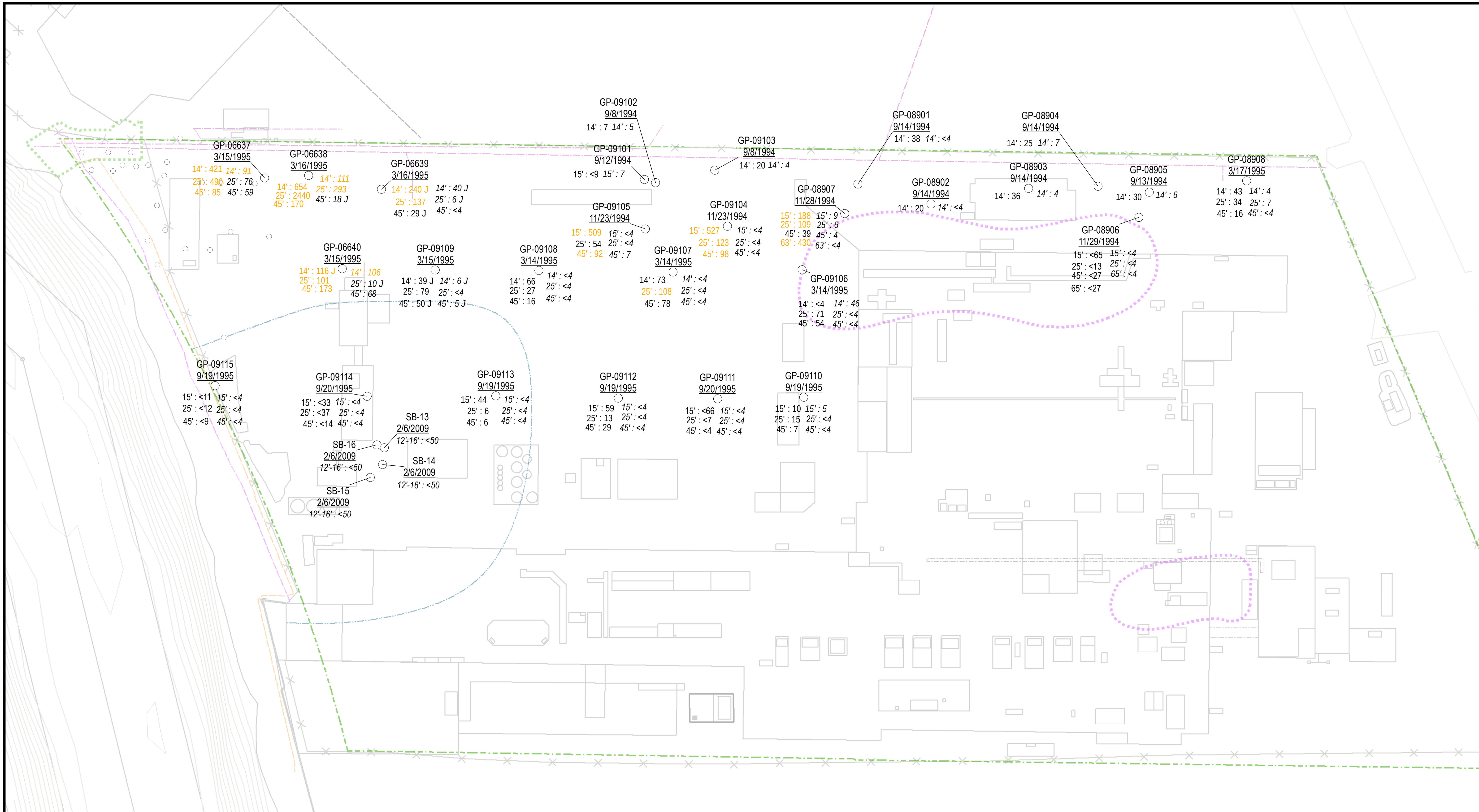
ZINC (TOTAL AND DISSOLVED) IN GROUNDWATER

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-51B

Filename: L:\Users\skh\POC_R3\Results_Water.mxd Date: 3/26/2020 BRL



N
W E
S
0 100
Feet

LEGEND

○ Sample Location

○ Sample Location w/ Analytical Result

Analyte Result Key

T2B2	Sample Location Name
2/6/2009	Sample Date
15' : 56	Sample Depth : Result
15' : 56	Sample Depth : Result (Detected)
15' : 56	Sample Depth : Result (Non-Detect Over Screening Level)
15' : 56	Sample 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 micrograms per liter (µg/L).
2. Detections and detection limits (when not detected) have been 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.
3. The PCUL for zinc is 81 µg/L.

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Seattle, Washington

ZINC (TOTAL AND DISSOLVED) IN GRAB GROUNDWATER SAMPLES

March 2020 21-1-12596-013

SHANNON & WILSON

FIG. B-51C

Filename: L:\Users\skh\GP_R4\Results_GP_Water.mxd Date: 3/24/2020 BRL

APPENDIX C: FACILITY WALK-THROUGH FINDINGS

Appendix C

Facility Walk-Through Findings

CONTENTS

- Table C-1 – September 2018 Facility Walk-Through Summary Table with October 2019 through February 2020 Observation Updates

Table C-1 - September 2018 Facility Reconnaissance Summary Table with October 2019 through February 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.

Table C-1 - September 2018 Facility Reconnaissance Summary Table with October 2019 through February 2020 Observation Updates

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.

Table C-1 - September 2018 Facility Reconnaissance Summary Table with October 2019 through February 2020 Observation Updates

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 had been removed.	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.

Table C-1 - September 2018 Facility Reconnaissance Summary Table with October 2019 through February 2020 Observation Updates

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.

Table C-1 - September 2018 Facility Reconnaissance Summary Table with October 2019 through February 2020 Observation Updates

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 C-1 - September 2018 Facility Reconnaissance Summary Table with October 2019 through February 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.

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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, an AFFF 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.

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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 C-1 - September 2018 Facility Reconnaissance Summary Table with October 2019 through February 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.
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.

Table C-1 - September 2018 Facility Reconnaissance Summary Table with October 2019 through February 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
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					
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.

Table C-1 - September 2018 Facility Reconnaissance Summary Table with October 2019 through February 2020 Observation Updates

Name of Feature	Location and Use	Dimensions	Equipment and Materials	Observations	Alterations Since SCER Inspection (2007)
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.
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 C-1 - September 2018 Facility Reconnaissance Summary Table with October 2019 through February 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.
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:

Site features shown in Figure 2. Below ground features detailed in Figure 3. UST and AST locations shown in Figure 15.

All dimensions, capacities, and other measurements are approximate and obtain using a tape measure, unless otherwise stated.

Green-shaded cells were updated since the Draft Remedial Investigation Work Plan (01/31/2019)

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; 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

APPENDIX D: EXCERPTS FROM PREVIOUS REPORTS

Appendix D

Excerpts from Previous Reports

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- Attachment D-1 – USACE Embayment Fill Records
- Attachment D-2 – Figures showing HVOCs on Boeing Plant 2 Facility
- Attachment D-3 – Figures and Tables showing OA-11 PCB Contamination
- Attachment D-4 – Tables and Figures from Early Investigations (Areas 1 through 4)
- Attachment D-5 – Tables and Figures from JFOS Pipe Sampling Events
- Attachment D-6 – Stormwater Sampling Tables and Figures
- Attachment D-7 – SB3/SB4 Upland Interim Action Figures

APPENDIX D: EXCERPTS FROM PREVIOUS REPORTS

ATTACHMENT D-1

USACE Embayment Fill Records

Box
88230025491

1507-28 ISAACSON IRON WORKS - DUWAMISH WW
Wharf, dredge, fill No. 47

88230025491
3-22-1

ISAACSON IRON WORKS (Subject)

SE 825.1-6(Duwamish Wwy)47
1947 File: 800.6(Duwamish Wwy., W. W.)47

Doc. File

Case No.

Sheet No. 1

RECORD CARD, ENGINEER DEPARTMENT, U. S. ARMY

No.	Name	R. or S.	1943 Date and Purport of Communication
1	Isaacson Iron Wks	R	Jan.29:APPLICATION: Wharf, bulkhead, and fill Duwamish Wwy, west of the south end of Boeing Field. Just S. of Seat
1a	"	R	Incl. :Plans - 1 tracing, 3 prints.
2	Office memo	R	LIST OF INTERESTED PARTIES
3	Circular letter	S	Feb. 10:For views of local interests.
4	Capt.Detlie	R	" 12:No objection
5	Foss Launch & Tug	R	" 12: "
6	Northwest Towboat	R	" --: "
7	King County Engr.	R	" 13: "
8	U.S.Coast Guard	R	" 12: "
9	Boeing Aircraft	R	" 15: "
10	Seattle Yacht Club	R	" 15: "
11	Port of Seattle	R	" 16: "
12	Dept. Lighting	R	" 17: "
13	Flood Control Engr	R	" 16: "
14	J.B.Shorett,Atty.	R	" 20:No objection if no right given to maintain wharf if a when waterway is widened.
(1)	Div. Engr. 1st	S	" 24:Recommending permit.(Forms 96 inclosed, as directed)
15	Div. Engr. TEL	R	Mar. 5:Permit being prepared. Will be forwarded Mar. 8.
(1)	" 2d	R	" 7:Inclosing permit.
16	"	R	Incl. :PERMIT, Mar. 7:Wharf, bulkhead, fill, as per Appln.(1).
17	Isaacson Iron Wks	S	Mar.12 :Forwarding permit.
	Seattle Light.Dpt	R	May 6, 1942:Permit for overhead wire crossing to serve Isaacson Iron Wks (SE 7510.3(Seattle,City of - Duwamish Wwy.)103
			1944 APPLICATION:
18	General Const Co.	R	31 Jan:Dredge in wwy., fill balance of Isaacson Iron Wks proper same location as (1) above.
18a	"	R	Incl. :Plans - 1 tracing, 3 prints.
19	Office memo	R	LIST OF INTERESTED PARTIES.
20	Circular letter	S	2 Feb:For views of local interests.
21	Isaacson Iron Wks	R	3 " :No objection.
22	Passive Defense	R	3 " : "
23	King County Engr	R	4 " : " - does not come under our jurisdiction.
24	Foss Launch & Tug	R	4 " : "
25	Boeing Aircraft	R	7 " : "
26	US Coast Guard	R	- " : "
27	Bissell Lmbr. Co.	R	9 " :Objects - dredging will cause erosion of bank at our sl
28	Port of Seattle	R	10 " :No objection.
29	General Const.Co.	S	15 " :Secure withdrawal of objections.
30	Com.Wwy. Dist. #1	R	15 " :No objection.
	------		Application 18 withdrawn - new one submitted ----
31	Gen. Const. Co.	R	21 Feb:APPLICATION - Dredge & fill for Isaacson Iron Wks. as Ser/18, except no dredging in front of Bissell Lmbr.C
31a	"	R	Incl. :Plans - 1 tracing, 3 prints.
32	Office Memo	R	LIST OF INTERESTED PARTIES.
33	Circular letter	S	21 Feb:For views of local interests.

(over)

WAR DEPARTMENT, ENGINEERS Form No. 208 8—1110

Isaacson Iron Works

(Old)--825.1-6(Duwamish Wwy)47/
800.6(Duwamish Wwy.,Wash.)47/

No.	Name	R. or S.	1944 Date and Purport of Communication
	USED		
34	Passive Defense/	R	22 Feb:No objection.
35	Shorett, Com.Wwy#1	R	23 " : "
36	Seattle Gas Co.	R	24 " : "
37	Northwest Towboat	R	- " : "
38	Port of Seattle	R	25 " : "
39			
40	Dist. Engr.	R	28 Feb:PERMIT - Dredge in Duwamish Wwy, between Slips 5 & 6 and dump on fill of Isaacson Iron Wks.
41	Gen. Const. Co.	S	29 " :Forwarding permit. Inspected--Complete OK
42	C of E cc-Div.	S	29 " :Forwarding copy of permit.
43	Stauffer Chemical	R	8 Mar:No objection - purchased property of late R.P. Greer.
44	Isaacson Iron Works	S	31 May:Reported you are dumping slag,etc. in front of bulkhead! Stop it.
45	"	R	3 Jun :Slag to be under wharf, within limits of permit.
46	"	S	5 " :In view of above, no objection.
			1947
47	"	S	22 Jan.: Permit 16 expired Dec 46. Report status of work.
(47)	" 1st	R	27 " :Partially complete.
48	"	R	29 " :APPLICATION - extension of time on permit 16.
49	Office memo	R	LIST OF INTERESTED PARTIES.
50	Circular letter	S	31 Jan.:For views of local interests.
51	General Motors TEL	R	6 Feb:Does Kenworth Motor Truck Co. now own adj. property formerly owned by Fish Body (of General Motors)?
52	" TEL	S	7 " :Ans - Yes.
53	Foss Launch & Tug	R	5 " :No objection.
54	Port of Seattle	R	5 " : "
(48)	Div. Engr. 1st	S	10 Feb:Recommending extension of time.
(48)	" 2d	R	17 " :Inclosing letter of extension, dated 17 Feb 47.
55	"	R	Incl.:EXTENSION OF TIME, Permit 16, to 31 Dec 1949.
			1950
56	Isaacson Iron Wks	S	19 Jan:Permit 16 expired 31 Dec 49. Report status of work.
(56)	"	R	31 " :APPLICATION - extension of time on above.
57	Action sheet	R	LIST OF INTERESTED PARTIES.
58	Circular letter	S	8 Feb:For views of local interests.
59	Port of Seattle	R	15 " :No objection.
60	Isaacson Iron Wks	S	21 " :EXTENSION OF TIME on permit 16 to 31 Dec 52.

(Do not write below this line)

8—1110

Inspection Record

Date	Status	Inspector
1/30/44	Dredging Completed	J. S. O'Leary
	and put in fill. Survey of dredged area will be	
	made when condition survey of waterway is made	
	Gray Const. Co. Said they dredged approx 90,000 C.Y.	[illegible]

CIRCLE I BRAND STEEL PRODUCTS **Isaacson Iron Works**

OFFICE AND WORKS · 2917 EAST MARGINAL WAY · TELEPHONE MAIN 3756

CABLE ADDRESS "ISAACSON"

Seattle WASHINGTON

January 29, 1943

Address all Communications to the Company in DUPLICATE P. O. Box 3028 Seattle, Wash.

SE 825.1-6(Duwamish Wwy.)47/1

U. S. ENGINEER OFFICE SEATTLE WASH

U. S. Engineer's Office,
700 Central Building,
800 3rd Ave.,
Seattle, Washington

Dear Sir:

We request a permit for the construction of a wharf, bulkhead, and fill,as shown on the attached plans, to be built in the Duwamish Waterway west of the south end of Boeing Field. The property in front of which this wharf will be built is owned by Isaacson Iron Works. It is just outside the corporate limits of the city of Seattle.

We request that action be expedited as this work is in connection with the war effort.

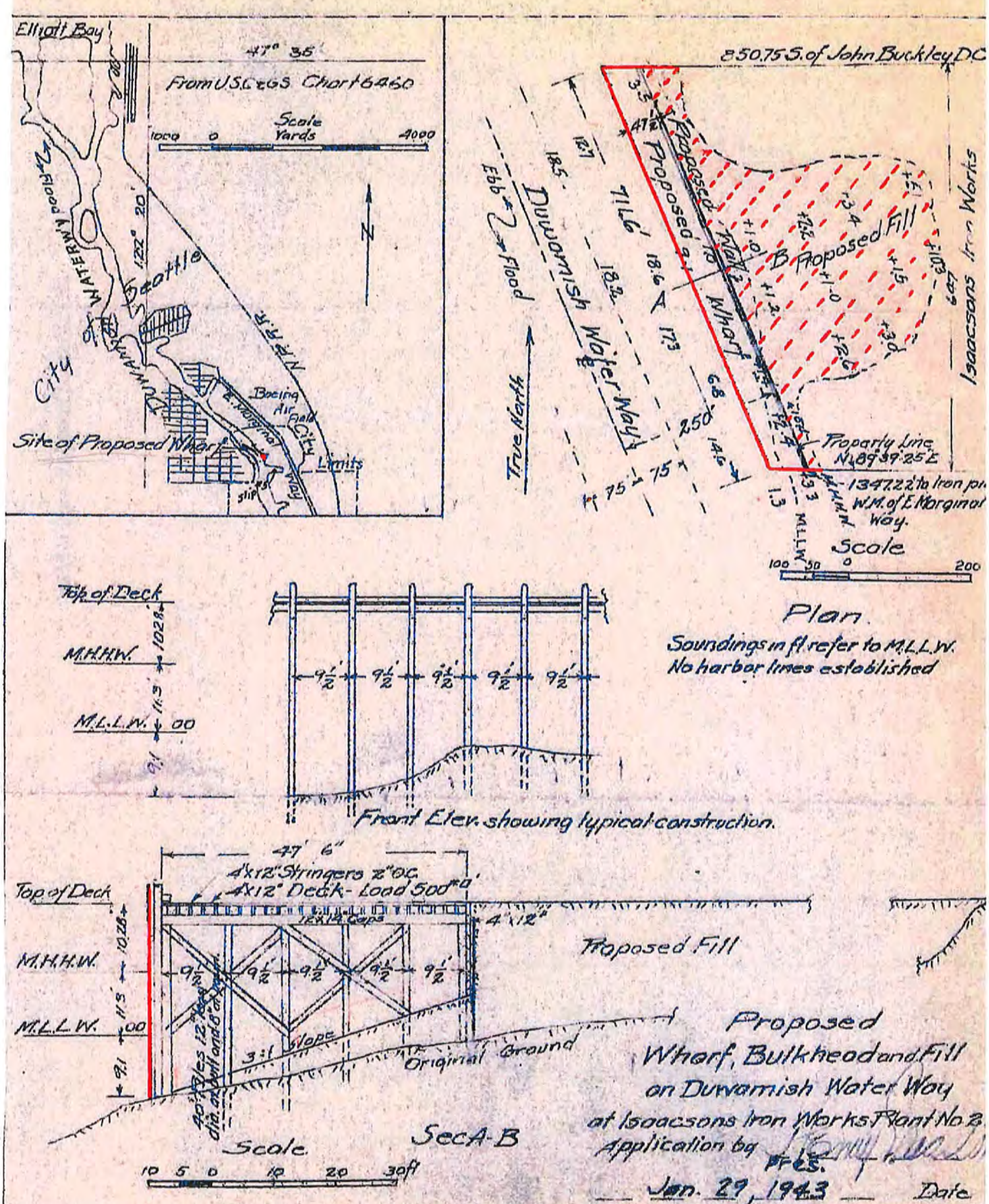
Yours very truly,

ISAACSON IRON WORKS

Henry Isaacson

President

U.S. ENGINEER OFFICE FEB 10 9 33 AM '43 SEATTLE, WASHINGTON



Elliott Bay
47° 35'
From U.S.C.&G.S. Chart 6460
Scale
Yards
1000
0
4000
Flood
Ebb
WATERWAY
122° 20'
City of Seattle
DUWAMISH
Boeing Air Field
E. Marginal Way
City Limits
N.P.R.R.
Site of Proposed Wharf
slip
850.75 S. of John Buckley D.C.
Proposed Wharf
Proposed Bulkhead
Proposed 10' Wharf
Proposed Fill
B
A
Duwamish Water Way
True North
Flood
Ebb
250'
75'
75'
Property Line N. 89°39'25" E.
1347.22' to Iron pi.
W.M. of E. Marginal Way.
M.L.L.W.
Isaacsons Iron Works
Scale
100
50
0
200
Plan
Soundings in ft. refer to M.L.L.W.
No harbor lines established
Top of Deck
M.H.H.W.
M.L.L.W.
10.28
11.3
00
9.1
9½'
Front Elev. showing typical construction.
47' 6"
4"x12" Stringers 2" O.C.
4"x12" Deck - Load 500# □'
12x14 Caps
4"x12"
Top of Deck
M.H.H.W.
M.L.L.W.
Proposed Fill
3:1 Slope
Original Ground
40' Piles 12" dia. at butt and 8" dia. at tip
Sec A-B
Scale
10 5 0 10 20 30 ft
Proposed
Wharf, Bulkhead and Fill
on Duwamish Water Way
at Isaacsons Iron Works Plant No. 2.
Application by
Pres.
Jan. 29, 1943
Date

WAR DEPARTMENT

NOTE.—It is to be understood that this instrument does not give any property rights either in real estate or material, or any exclusive privileges; and that it does not authorize any injury to private property or invasion of private rights, or any infringement of Federal, State, or local laws or regulations, nor does it obviate the necessity of obtaining *State assent* to the work authorized. IT MERELY EXPRESSES THE ASSENT OF THE FEDERAL GOVERNMENT SO FAR AS CONCERNS THE PUBLIC RIGHTS OF NAVIGATION. (See *Cummings* v. *Chicago*, 188 U. S., 410.) 16—15168

SE 825.1-6(Duwamish Wwy.)47/16

PERMIT

United States Engineer Office
Pacific Division (San Francisco Br. Office)
San Francisco, Calif., March 7, 1943.

Isaacson Iron Works,
P. O. Box 3028,
Seattle, Washington.

Gentlemen:

Referring to written request dated January 29, 1943,

I have to inform you that, upon the recommendation of the Chief of Engineers, and under the provisions of Section 10 of the Act of Congress approved March 3, 1899, entitled "An act making appropriations for the construction, repair, and preservation of certain public works on rivers and harbors, and for other purposes," you are hereby authorized by the Secretary of War,

to construct and maintain a wharf and a bulkhead, and to fill shoreward thereof
(Here describe the proposed structure or work.)

in Duwamish Waterway
(Here to be named the river, harbor, or waterway concerned.)

at just outside the southerly limits of Seattle, Washington
(Here to be named the nearest well-known locality—preferably a town or city—and the distance in miles and tenths from some definite point in the same, stating whether above or below or giving direction by points of compass.)

in accordance with the plans shown on the drawing attached hereto and marked:
(Or drawings; give file number or other definite identification marks.)
"Proposed Wharf, Bulkhead and Fill on Duwamish Water Way at Isaacsons Iron Works Plant No 2 Application by Henry Isaacson Pres. Jan. 29, 1943 Date"

subject to the following conditions:

RECORDED

ENTERED ON CARD RECORD OF PERMITS 1936

(a) That the work shall be su[illegible]t to the supervision and approval of the Dist[illegible] Engineer, Engineer Department at Large, in charge of the locality, [illegible]o may temporarily suspend the work at any t[illegible], if in his judgment, the interests of navigation so require.

(b) That any material dredged in the prosecution of the work herein authorized shall be removed evenly, and no large refuse piles, ridges across the bed of the waterway, or deep holes that may have a tendency to cause injury to navigable channels or to the banks of the waterway shall be left. If any pipe, wire, or cable hereby authorized is laid in a trench, the formation of permanent ridges across the bed of the waterway shall be avoided and the back filling shall be so done as not to increase the cost of future dredging for navigation. Any material to be deposited or dumped under this authorization, either in the waterway or on shore above high-water mark, shall be deposited or dumped at the locality shown on the drawing hereto attached, and, if so prescribed thereon, within or behind a good and substantial bulkhead or bulkheads, such as will prevent escape of the material into the waterway. If the material is to be deposited in the harbor of New York, or in its adjacent or tributary waters, or in Long Island Sound, a permit therefor must be previously obtained from the Supervisor of New York Harbor, Army Building, New York City.

(c) That there shall be no unreasonable interference with navigation by the work herein authorized.

(d) That if inspections or any other operations by the United States are necessary in the interests of navigation, all expenses connected therewith shall be borne by the permittee.

(e) That no attempt shall be made by the permittee or the owner to forbid the full and free use by the public of all navigable waters at or adjacent to the work or structure.

(f) That if future operations by the United States require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Secretary of War, it shall cause unreasonable obstruction to the free navigation of said water, the owner will be required, upon due notice from the Secretary of War, to remove or alter the structural work or obstructions caused thereby without expense to the United States, so as to render navigation reasonably free, easy, and unobstructed; and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners shall, without expense to the United States, and to such extent and in such time and manner as the Secretary of War may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable capacity of the watercourse. No claim shall be made against the United States on account of any such removal or alteration.

(g) That the United States shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the Government for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

(h) That if the display of lights and signals on any work hereby authorized is not otherwise provided for by law, such lights and signals as may be prescribed by the U. S. Coast Guard, shall be installed and maintained by and at the expense of the owner.

(i) That the permittee shall notify the said district engineer at what time the work will be commenced, and as far in advance of the time of commencement as the said district engineer may specify, and shall also notify him promptly, in writing, of the commencement of work, suspension of work, if for a period of more than one week, resumption of work, and its completion.

(j) That if the structure or work herein authorized is not completed on or before 31st day of December, 1946, this permit, if not previously revoked or specifically extended, shall cease and be null and void.

Extended to 31 Dec 1949. Sur/55
Extended to 31 Dec 1952 - Sur/60

By authority of the Secretary of War:

Warren T. Hannum,
Brigadier General, Corps of Engineers
Division Engineer.

WAR DEPARTMENT
O. C. of E.
Form No. 96
Revised Jan. 17, 1940

General Construction Company
GENERAL CONTRACTORS
3840 IOWA AVENUE
Seattle, Washington
TELEPHONE
WEST 4320

825.1-6(Duwamish Wwy) 47/31

February 21, 1944

United States Engineers
Central Building
Seattle, Washington

Gentlemen:

On January 31st, 1944, we made an application for permit to dredge 55000 cubic yards from Duwamish Waterway for a fill on the property of Isaacson Iron Works.

On February 15th we were notified by your office that Mr. Bissell had objected to any dredging in front of the Bissell Lumber Company property adjacent to Isaacson Iron Works. We have seen Mr. Bissell and he insists that no dredging be done in front of his property.

We hereby make a new application to dredge 55000 cubic yards of material from the Duwamish River from a point being near the South property line of the Bissell Lumber Co. and then southerly for a distance of 1400 feet, all as shown on blueprints attached. If this permit is granted we will not dredge any material from in front of the Bissell Lumber Co. property.

The dredged material is to be used for filling the balance of Isaacson Iron Works property as shown on sketch attached.

Permit is also requested to deepen the channel in the area to be dredged to 25 feet at M.L.L.W. We have closed an agreement with the Isaacson Iron Works for making this fill.

The Isaacson Iron Works is working 100% on Government War Contracts and they advise us that this improvement is badly needed.

applan

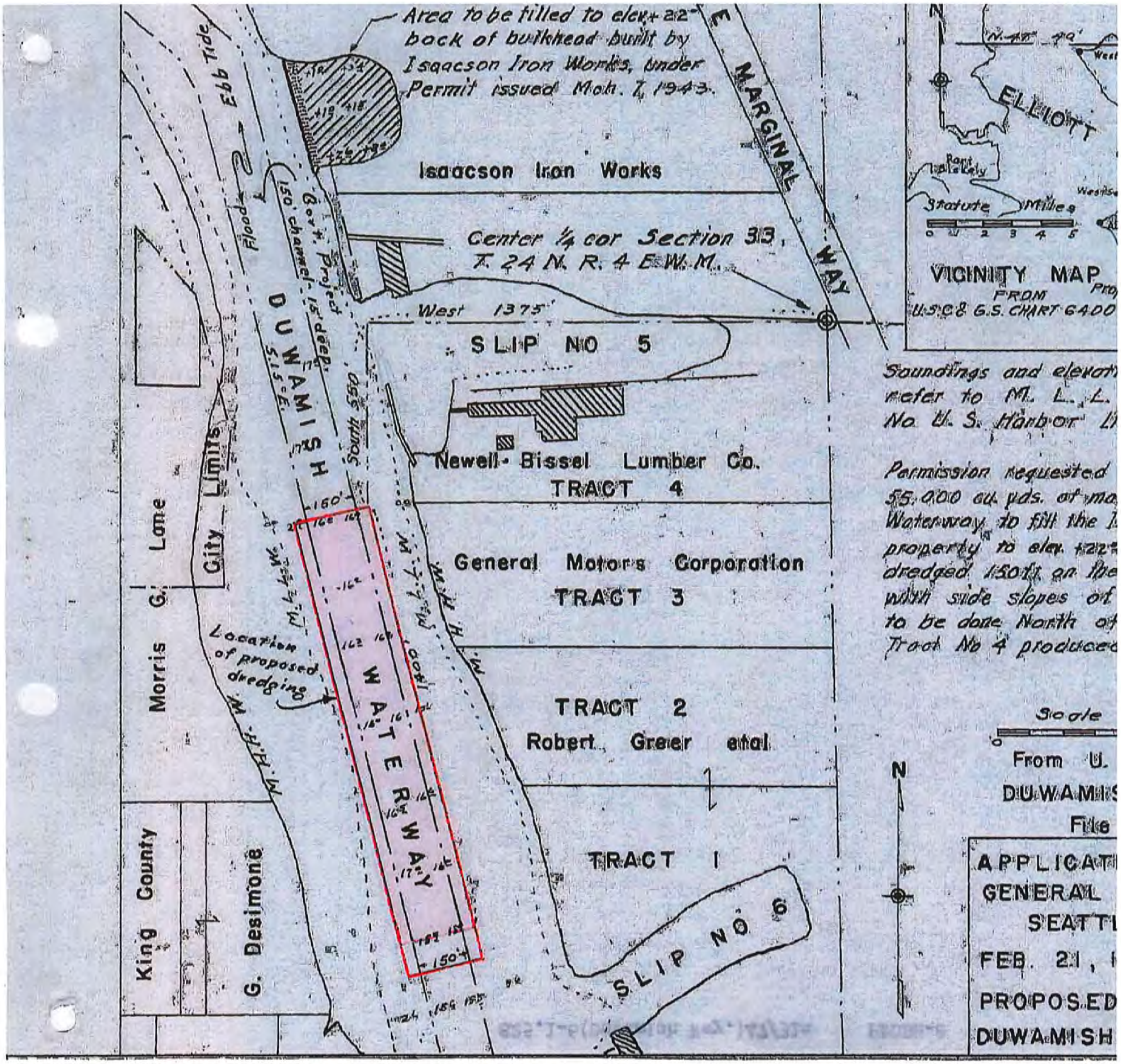
Yours truly,

GENERAL CONSTRUCTION COMPANY

By J. Samuelson
J. Samuelson
V.P.

JS:GM

Rec'd 2/21/44


Area to be filled to elev. +22 back of bulkhead built by Isaacson Iron Works, under Permit issued Mch. 7, 1943.
E. MARGINAL WAY
Isaacson Iron Works
Center ¼ cor Section 33, T. 24 N. R. 4 E. W. M.
West 1375'
SLIP NO 5
Newell-Bissel Lumber Co.
TRACT 4
General Motors Corporation
TRACT 3
TRACT 2
Robert Greer etal
TRACT 1
SLIP NO 6
DUWAMISH WATERWAY
150' channel Gov't. Project 15' deep
Ebb Tide
Flood
Location of proposed dredging
Morris G. Lane
City Limits
King County
G. Desimone
VICINITY MAP
FROM U.S.C.&G.S. CHART 6400
ELLIOTT
Statute Miles
Soundings and elevati
refer to M. L. L.
No. U. S. Harbor Li
Permission requested
55,000 cu. yds. of ma
Waterway to fill the I
property to elev. +22
dredged 150 ft. on the
with side slopes of
to be done North of
Tract No 4 produced
Scale
From U.
DUWAMIS
File
APPLICATI
GENERAL
SEATTL
FEB. 21,
PROPOSED
DUWAMISH

WAR DEPARTMENT

NOTE.—It is to be understood that this instrument does not give any property rights either in real estate or material, or any exclusive privileges; and that it does not authorize any injury to private property or invasion of private rights, or any infringement of Federal, State, or local laws or regulations, nor does it obviate the necessity of obtaining *State assent* to the work authorized. IT MERELY EXPRESSES THE ASSENT OF THE FEDERAL GOVERNMENT SO FAR AS CONCERNS THE PUBLIC RIGHTS OF NAVIGATION. (See *Cummings* v. *Chicago*, 188 U. S., 410.) 16—18168

825.1-6(Duwamish Wwy.)47/40 PADBH-8

825.1-6(Duwamish Wwy.)47/40 PADBH-8

PERMIT

United States Engineer Office.
Seattle, 1, Washington
28 February, 1944.

General Construction Company,
3840 Iowa Avenue,
Seattle, 6, Washington.

Gentlemen:

Referring to written request dated 21 February 1944

I have to inform you that, upon the recommendation of the Chief of Engineers, and under the provisions of Section 10 of the Act of Congress approved March 3, 1899, entitled "An act making appropriations for the construction, repair, and preservation of certain public works on rivers and harbors, and for other purposes," you are hereby authorized by the Secretary of War,

to dredge approximately 55,000 cubic yards, the dredged material to be placed on an existing fill on property of Isaacson Iron Works
(Here describe the proposed structure or work.)

in Duwamish Waterway,
(Here to be named the river, harbor, or waterway concerned.)

at between Slips Nos. 5 and 6, just outside the city limits of Seattle, Wash.
(Here to be named the nearest well-known locality—preferably a town or city—and the distance in miles and tenths from some definite point in the same, stating whether above or below or giving direction by points of compass.)

in accordance with the plans shown on the drawing attached hereto and marked: "Application by General Construction Co., Seattle, Washington. Feb 21, 1944 Proposed Dredging in Duwamish Waterway, Wn."
(Or drawings; give file number or other definite identification marks.)

KARDEXED

ENTERED ON CARD RECORD OF PERMITS

subject to the following conditions:

Book 2028

COMPLETE - see Inspection Report
Report to C of E discontinued

(*a*) That the work shall be subject to the supervision and approval of the District Engineer, Engineer Department at Large, in charge of the locality, who may temporarily suspend the work at any time, if in his judgment, the interests of navigation so require.

(*b*) That any material dredged in the prosecution of the work herein authorized shall be removed evenly, and no large refuse piles, ridges across the bed of the waterway, or deep holes that may have a tendency to cause injury to navigable channels or to the banks of the waterway shall be left. If any pipe, wire, or cable hereby authorized is laid in a trench, the formation of permanent ridges across the bed of the waterway shall be avoided and the back filling shall be so done as not to increase the cost of future dredging for navigation. Any material to be deposited or dumped under this authorization, either in the waterway or on shore above high-water mark, shall be deposited or dumped at the locality shown on the drawing hereto attached, and, if so prescribed thereon, within or behind a good and substantial bulkhead or bulkheads, such as will prevent escape of the material into the waterway. If the material is to be deposited in the harbor of New York, or in its adjacent or tributary waters, or in Long Island Sound, a permit therefor must be previously obtained from the Supervisor of New York Harbor, Army Building, New York City.

(*c*) That there shall be no unreasonable interference with navigation by the work herein authorized.

(*d*) That if inspections or any other operations by the United States are necessary in the interests of navigation, all expenses connected therewith shall be borne by the permittee.

(*e*) That no attempt shall be made by the permittee or the owner to forbid the full and free use by the public of all navigable waters at or adjacent to the work or structure.

(*f*) That if future operations by the United States require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Secretary of War, it shall cause unreasonable obstruction to the free navigation of said water, the owner will be required, upon due notice from the Secretary of War, to remove or alter the structural work or obstructions caused thereby without expense to the United States, so as to render navigation reasonably free, easy, and unobstructed; and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners shall, without expense to the United States, and to such extent and in such time and manner as the Secretary of War may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable capacity of the watercourse. No claim shall be made against the United States on account of any such removal or alteration.

(*g*) That the United States shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the Government for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

(*h*) That if the display of lights and signals on any work hereby authorized is not otherwise provided for by law, such lights and signals as may be prescribed by the U. S. Coast Guard, shall be installed and maintained by and at the expense of the owner.

(*i*) That the permittee shall notify the said district engineer at what time the work will be commenced, and as far in advance of the time of commencement as the said district engineer may specify, and shall also notify him promptly, in writing, of the commencement of work, suspension of work, if for a period of more than one week, resumption of work, and its completion.

(*j*) That if the structure or work herein authorized is not completed on or before 31st day of December, 19 47, this permit, if not previously revoked or specifically extended, shall cease and be null and void.

By authority of the Secretary of War:

Noble A. Bosley,
Captain, Corps of Engineers,
Executive Officer.

PBC

WAR DEPARTMENT
O. C. of E.
Form No. 96
Revised Jan. 17, 1940

ATTACHMENT D-2

Figures showing HVOCs on Boeing Plant 2 Facility

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

KEY:

2-66 SHEETPILE LOCATION

APPROXIMATE PLANT 2 PROPERTY BOUNDARY

0 100 200 400

APPROXIMATE SCALE: 1" = 400'

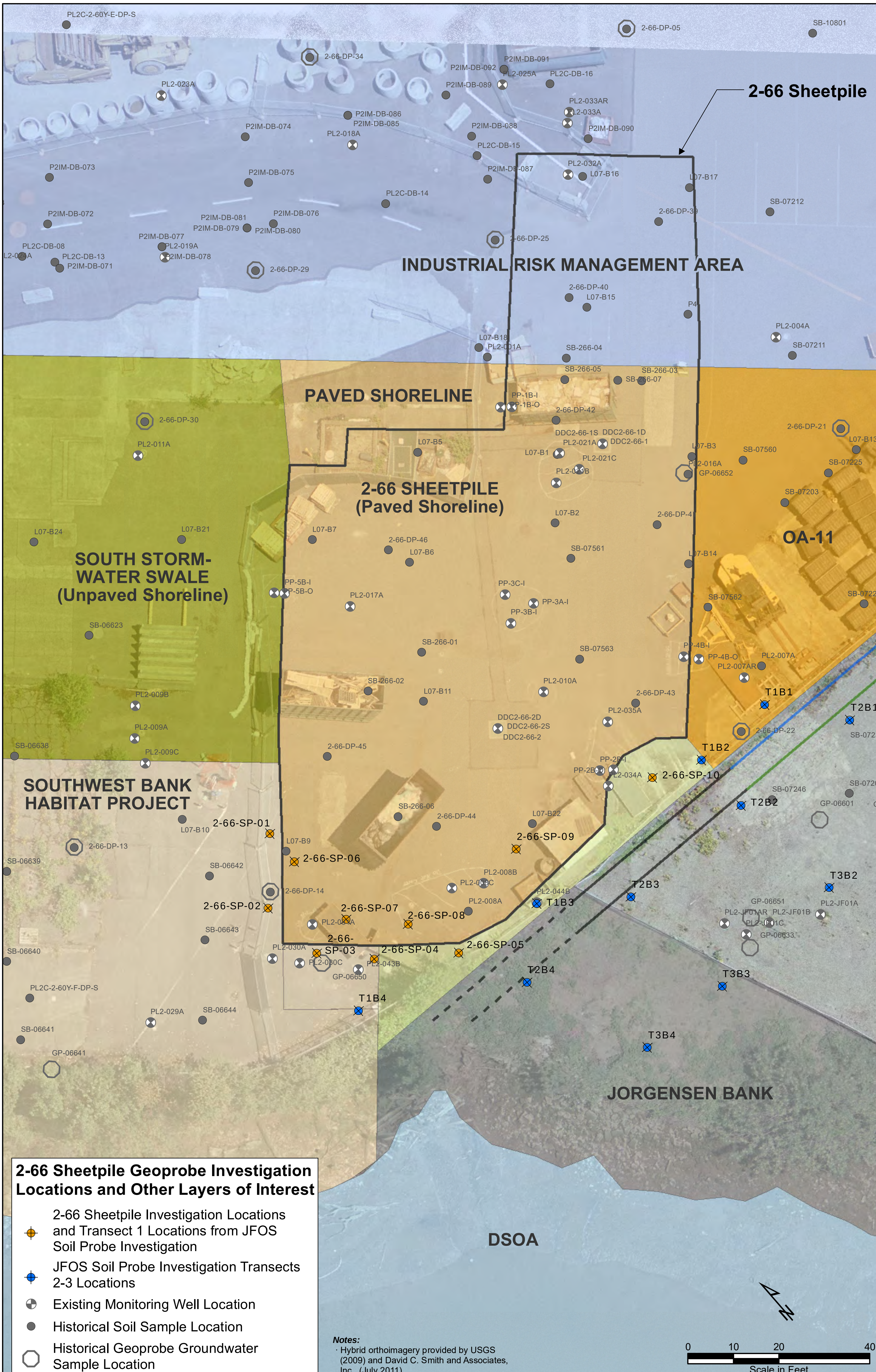
ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

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

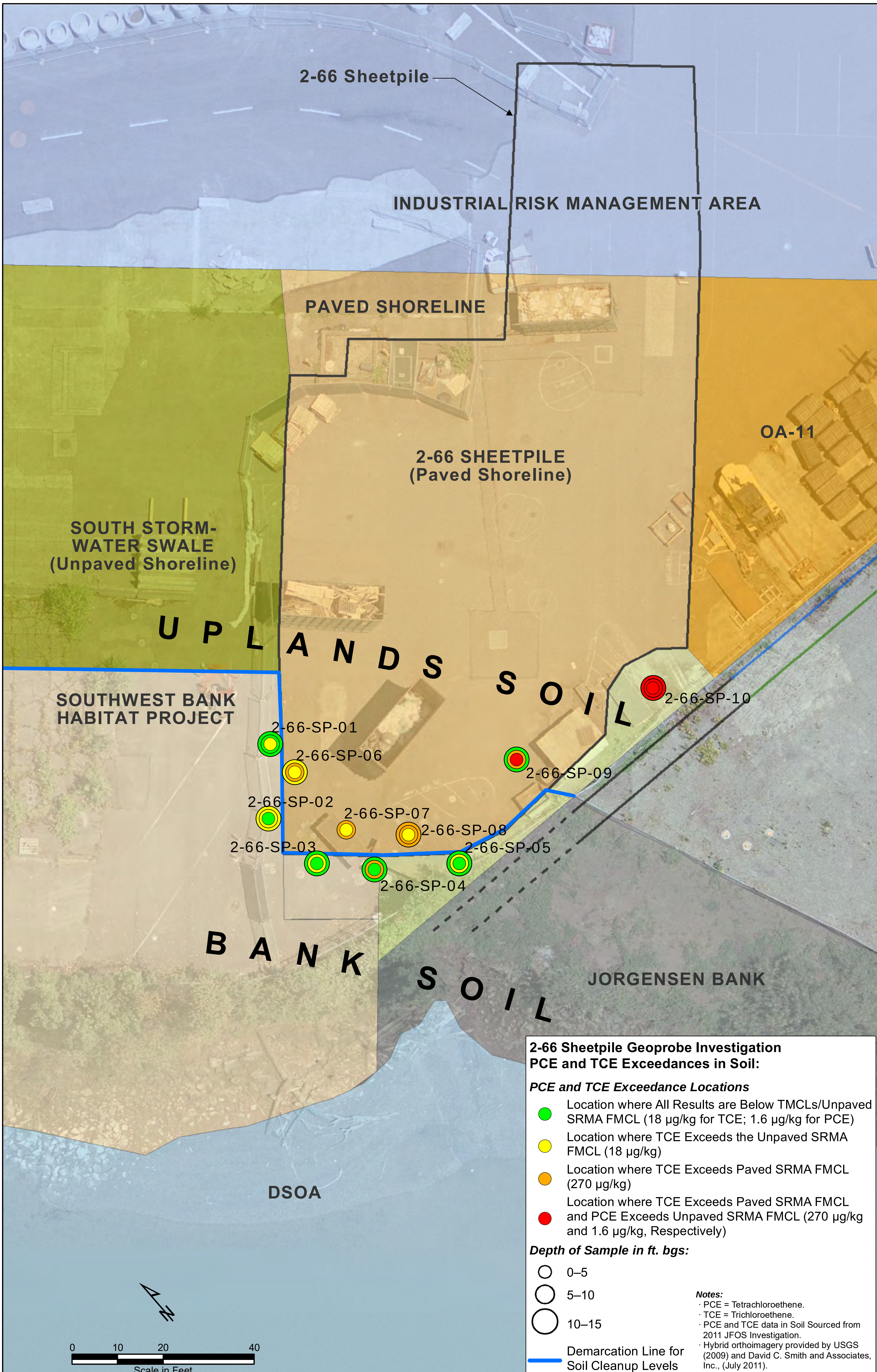


FLOYD | SNIDER
strategy • science • engineering

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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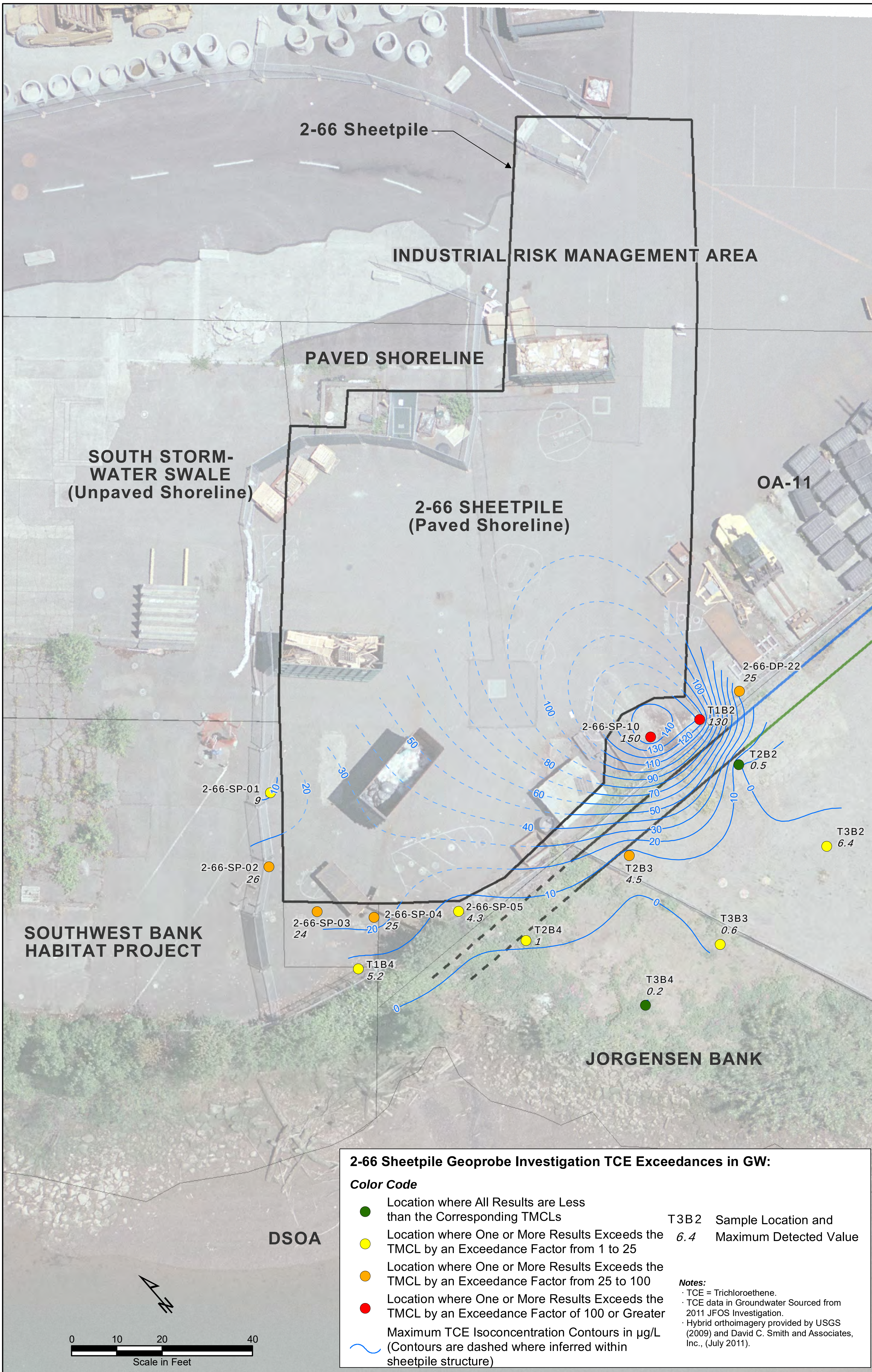
strategy ▪ science ▪ engineering

2-66 Sheetpile Focused Investigation
Boeing Plant 2
Seattle/Tukwila, Washington

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 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

Boeing Plant 2
Seattle/Tukwila, Washington

Uplands Corrective Measures Study
Volume III: South Yard Area

Data Gap Investigation Work Plan
Section 1: South Yard Description
Section 2: Data Gap Analysis
Section 3: Data Gap Investigation Methods

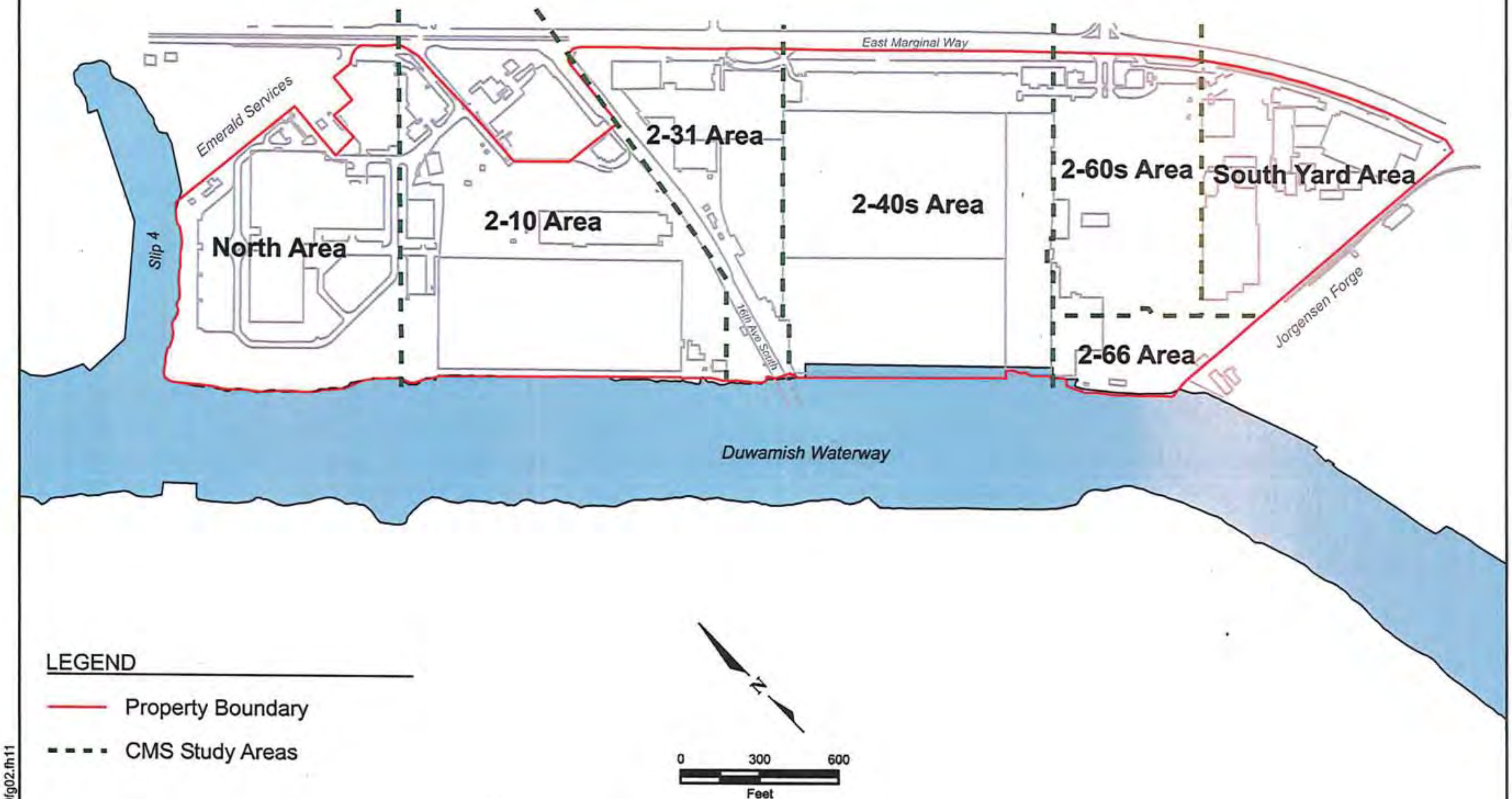
Data Gap Investigation Report
Section 4: Data Gap Investigation Results
Section 5: Area-specific Constituents of Concern

Remedy Selection Report

Prepared for
The Boeing Company
Seattle, Washington

Prepared by
Environmental Partners, Inc.
FLOYD | SNIDER
Golder Associates Inc.

Data Gap Investigation Work Plan Submitted
December 2005



Source: Floyd Snider McCarthy, Inc (06/23/04)

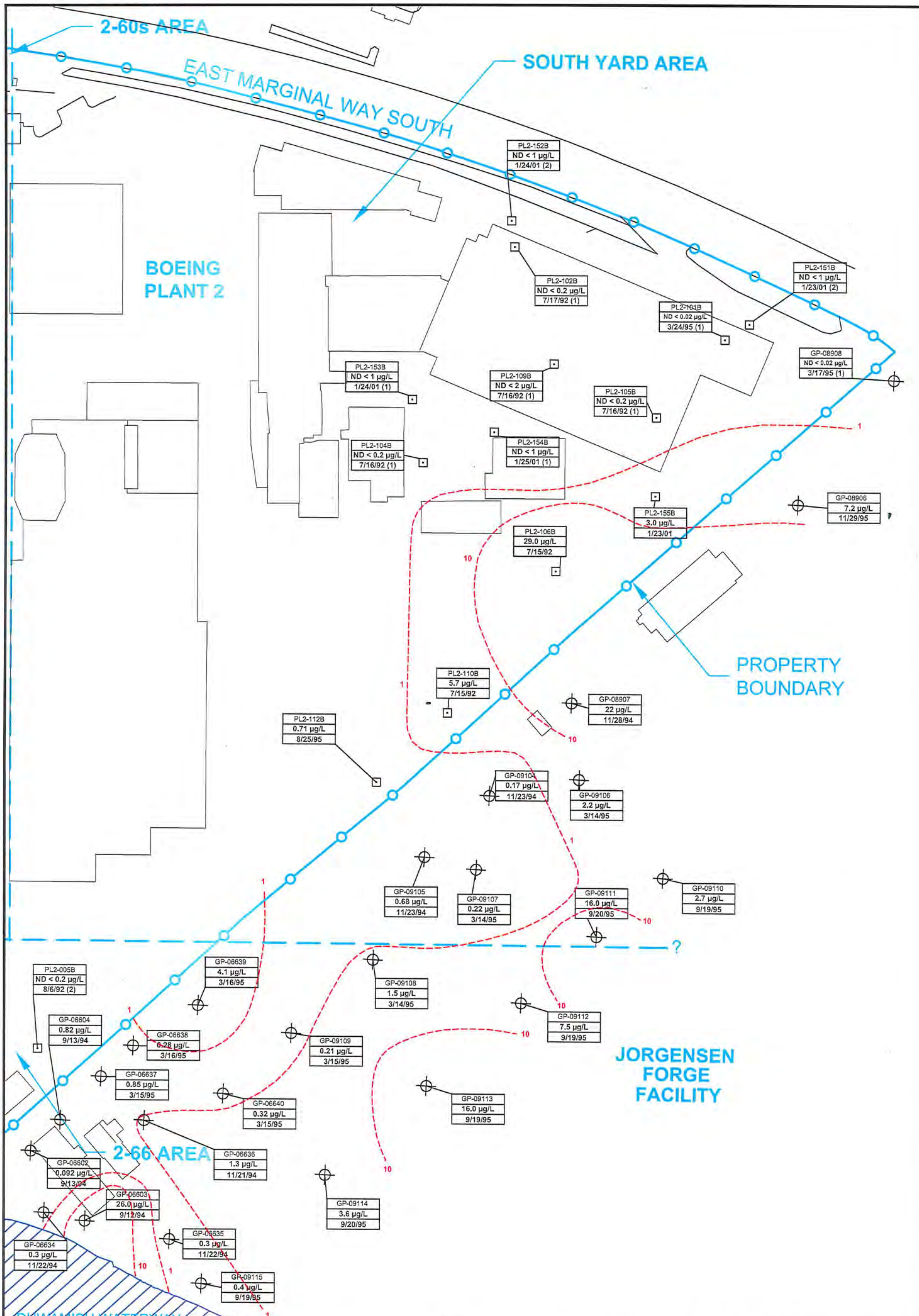
Golder Associates

SHEET	DRAWN BY
1 OF 1	EL
REVIEWED BY	DATE
TN	12/21/05

Data Gaps Investigation Work Plan
South Yard Area
Boeing Plant 2
Seattle/Tukwila, Washington

Figure 1-2
Site Plan with CMS Study Areas

DRAWING NO. 0131646001700/g02.fh11



KEY

- WELL LOCATION
- PROBE LOCATION
- AREA BOUNDARY
- PROPERTY BOUNDARY
- ISOCONCENTRATION LINE

SCREENING LEVEL (2004) = 0.731 µg/L

PL2-005A	WELL/PROBE NAME
7.02 µg/L	MAXIMUM DETECTION OR NON-DETECT WITH DETECTION LIMIT
4/25/04 (2)	DATE (NUMBER OF NON-DETECTS)

N

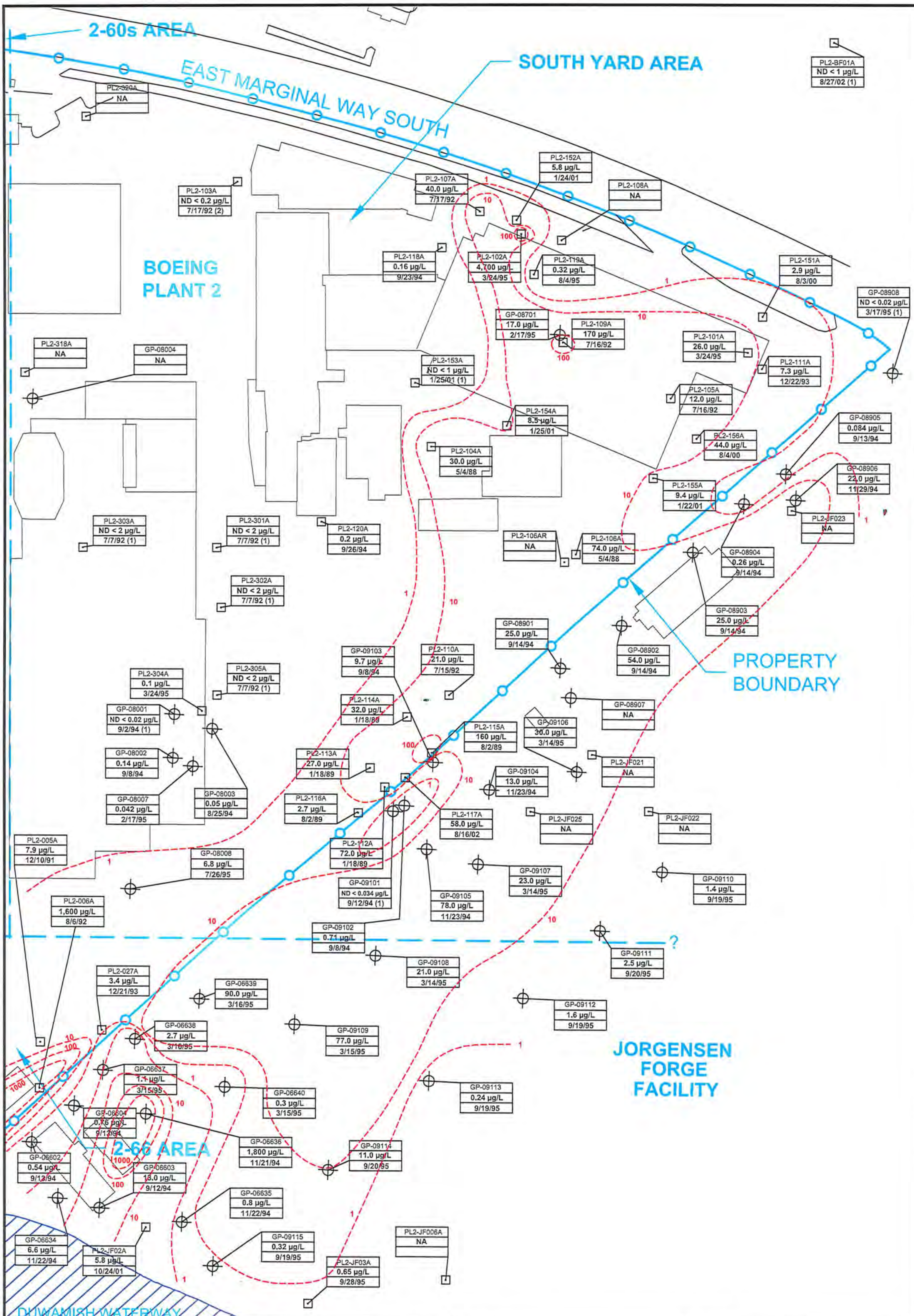
SCALE: 1"= 100'

ENVIRONMENTAL PARTNERS INC

BOEING PLANT 2
SOUTH YARD AREA
VINYL CHLORIDE CONCENTRATIONS IN LEVEL B GROUNDWATER

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	TK	DCK	6/9/04



KEY

⊡	WELL LOCATION
⊕	PROBE LOCATION
— —	AREA BOUNDARY
—○—	PROPERTY BOUNDARY
- - - -	ISOCONCENTRATION LINE

SCREENING LEVEL (2004) = 0.731 µg/L

PL2-005A	WELL/PROBE NAME
7.02 µg/L	MAXIMUM DETECTION OR NON-DETECT WITH DETECTION LIMIT
4/25/04 (2)	DATE (NUMBER OF NON-DETECTS)

N

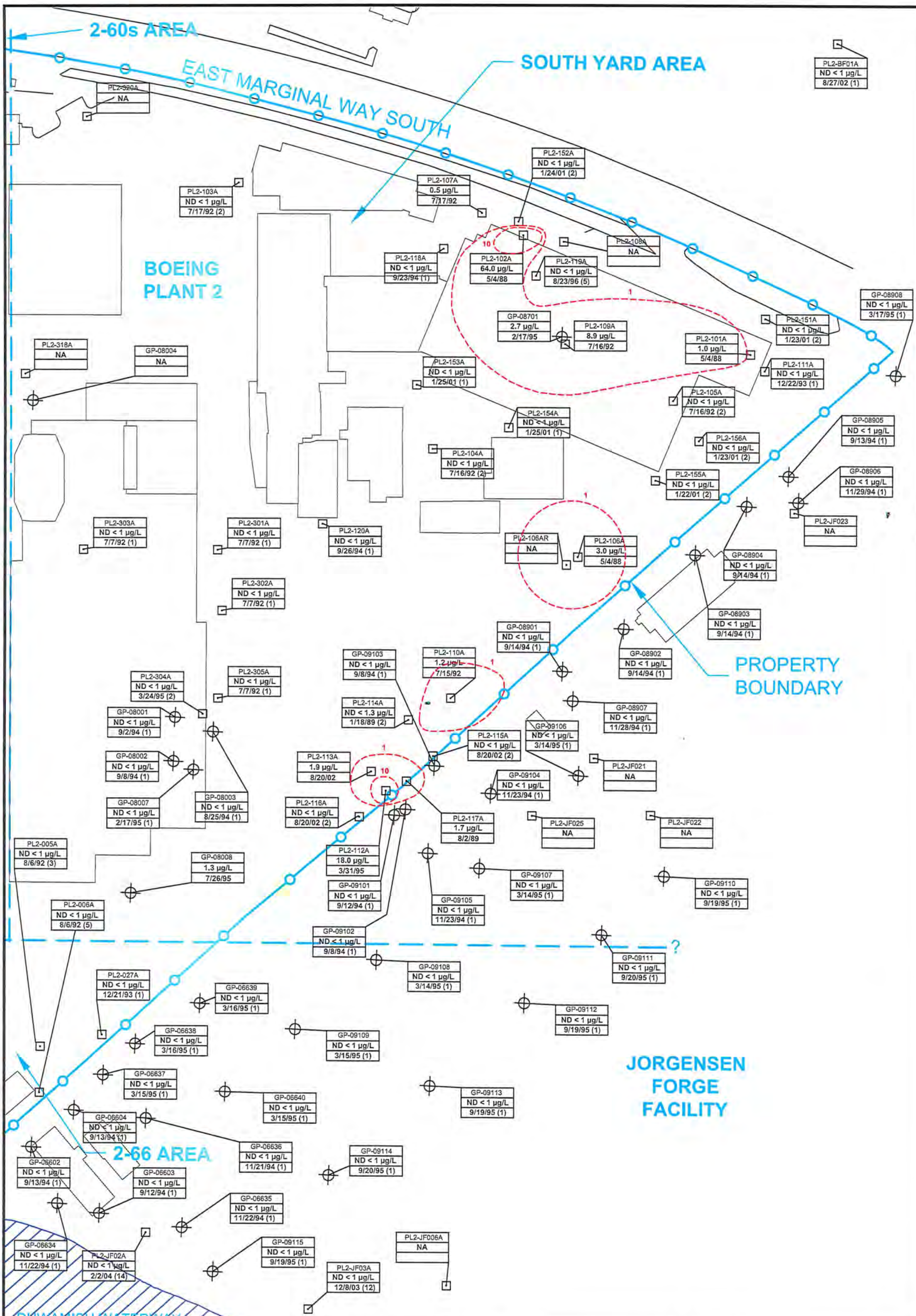
SCALE: 1"= 100'

ENVIRONMENTAL PARTNERS INC

BOEING PLANT 2
SOUTH YARD AREA
VINYL CHLORIDE CONCENTRATIONS
IN LEVEL A GROUNDWATER

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	TK	DCK	6/9/04



KEY

WELL LOCATION
PROBE LOCATION
AREA BOUNDARY
PROPERTY BOUNDARY
ISOCONCENTRATION LINE
SCREENING LEVEL (2004) = 0.382 µg/L

PL2-005A	WELL/PROBE NAME
7.02 µg/L	MAXIMUM DETECTION OR NON-DETECT WITH DETECTION LIMIT
4/25/04 (2)	DATE (NUMBER OF NON-DETECTS)

N

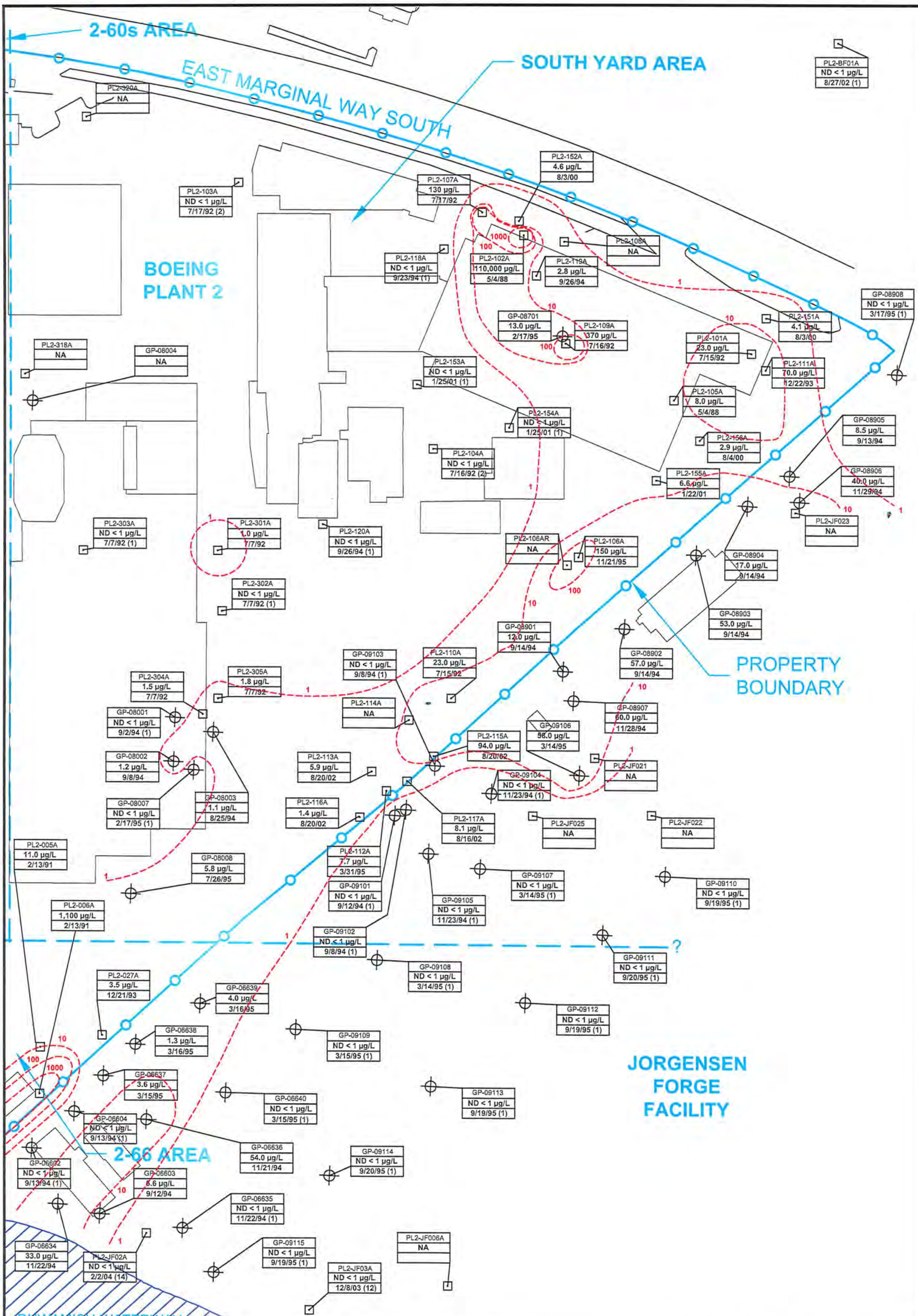
SCALE: 1"= 100'

ENVIRONMENTAL PARTNERS INC

**BOEING PLANT 2
SOUTH YARD AREA
1,1-DICHLOROETHENE
CONCENTRATIONS
IN LEVEL A GROUNDWATER**

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	TK	DCK	6/10/04



KEY

- WELL LOCATION
- PROBE LOCATION
- AREA BOUNDARY
- PROPERTY BOUNDARY
- ISOCONCENTRATION LINE

SCREENING LEVEL (2004) = 1,130 µg/L

PL2-005A	WELL/PROBE NAME
7.02 µg/L	MAXIMUM DETECTION OR NON-DETECT WITH DETECTION LIMIT
4/25/04 (2)	DATE (NUMBER OF NON-DETECTS)

N

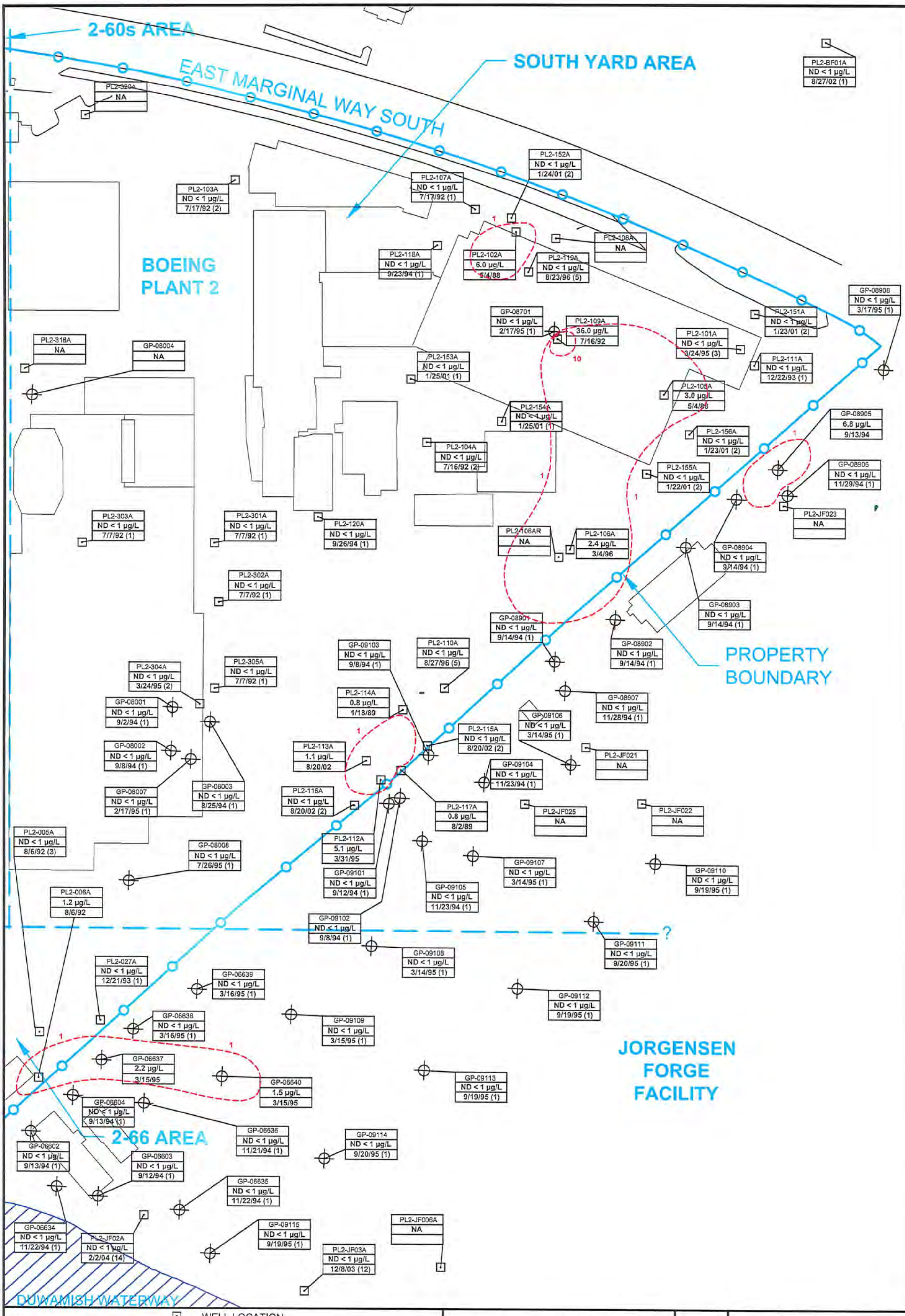
SCALE: 1" = 100'

epi ENVIRONMENTAL PARTNERS INC

BOEING PLANT 2
SOUTH YARD AREA
CIS-1,2-DICHLOROETHENE CONCENTRATIONS IN LEVEL A GROUNDWATER

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	TK	DCK	6/10/04



KEY

- WELL LOCATION
- PROBE LOCATION
- AREA BOUNDARY
- PROPERTY BOUNDARY
- ISOCONCENTRATION LINE

SCREENING LEVEL (2004) = 0.822 µg/L

PL2-005A	WELL/PROBE NAME
7.02 µg/L	MAXIMUM DETECTION OR NON-DETECT WITH DETECTION LIMIT
4/25/04 (2)	DATE (NUMBER OF NON-DETECTS)

N

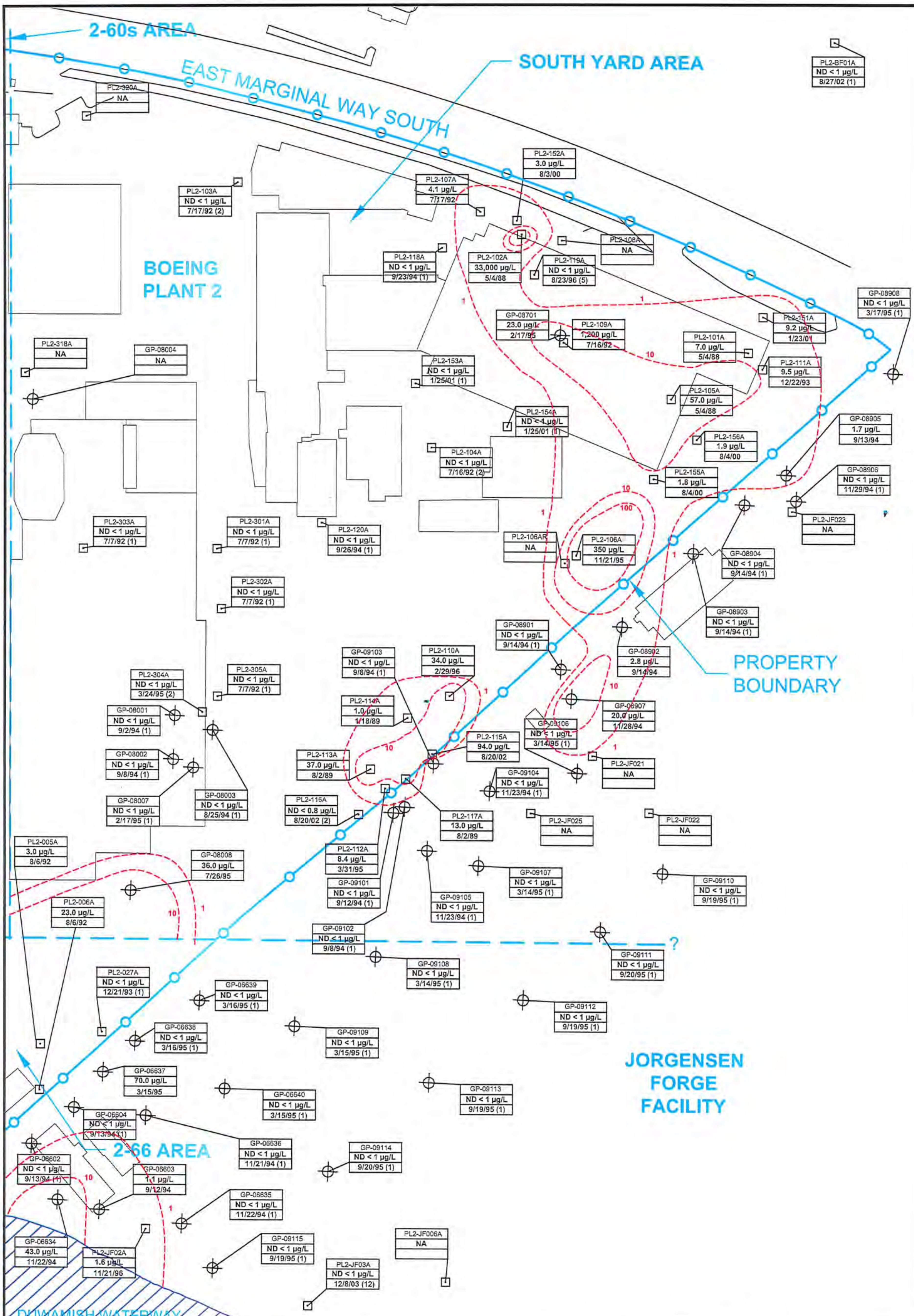
SCALE: 1"= 100'

ENVIRONMENTAL PARTNERS INC

BOEING PLANT 2
SOUTH YARD AREA
TETRACHLOROETHENE
CONCENTRATIONS
IN LEVEL A GROUNDWATER

PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	TK	DCK	6/10/04



KEY

WELL LOCATION
PROBE LOCATION
AREA BOUNDARY
PROPERTY BOUNDARY
ISOCONCENTRATION LINE

SCREENING LEVEL (2004) = 0.302 µg/L

PL2-005A	WELL/PROBE NAME
7.02 µg/L	MAXIMUM DETECTION OR NON-DETECT WITH DETECTION LIMIT
4/25/04 (2)	DATE (NUMBER OF NON-DETECTS)

N

SCALE: 1"= 100'

epi ENVIRONMENTAL PARTNERS INC

BOEING PLANT 2 SOUTH YARD AREA TRICHLOROETHENE CONCENTRATIONS IN LEVEL A GROUNDWATER

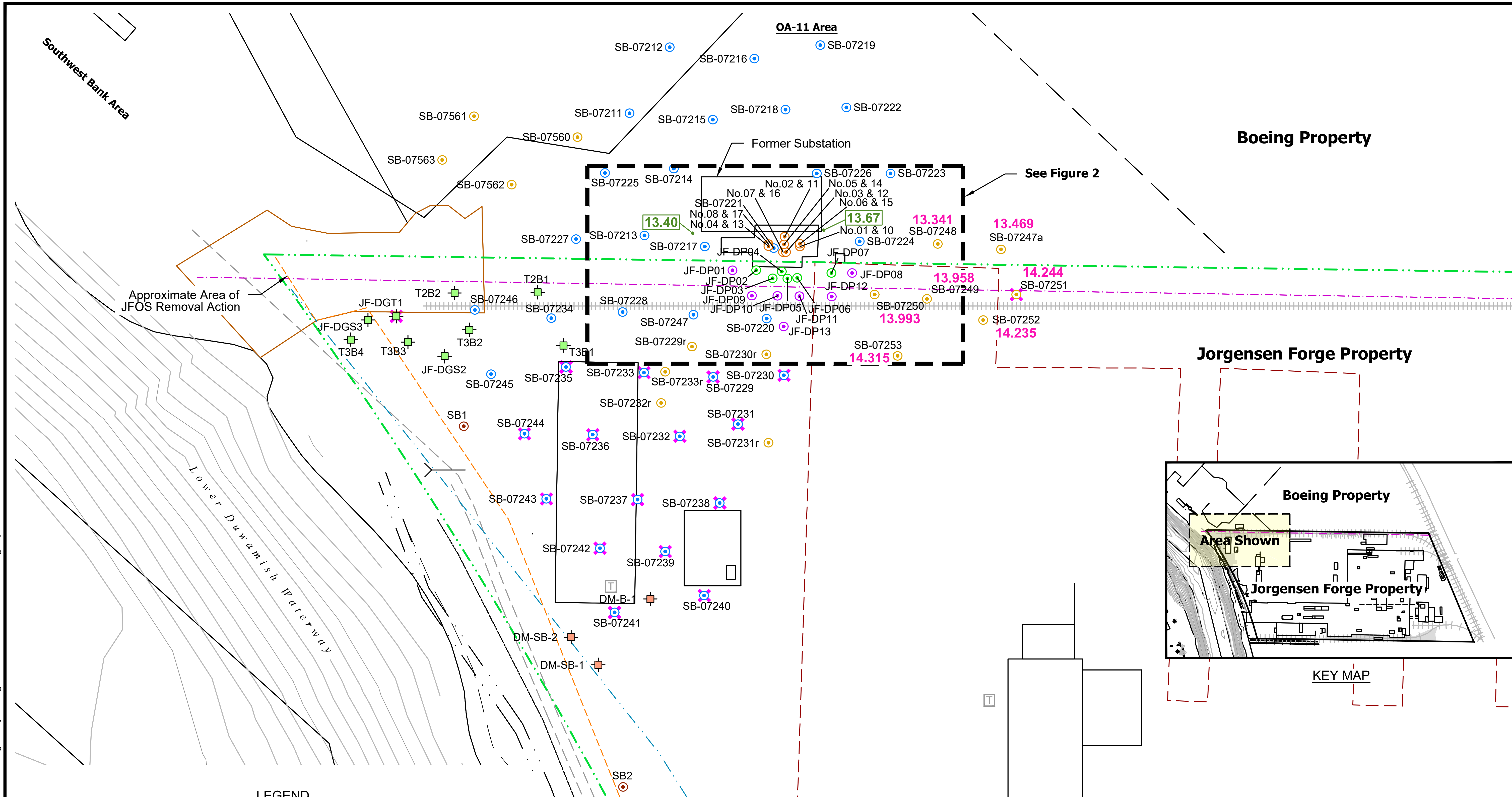
PROJECT	BOEING PLANT 2
PREPARED FOR	THE BOEING COMPANY
LOCATION	7725 EAST MARGINAL WAY SEATTLE/TUKWILA, WASHINGTON

SHEET	DRAWN BY	REVIEWED BY	DATE
1 of 1	TK	DCK	6/10/04

ATTACHMENT D-3

Figures and Tables showing OA-11 PCB Contamination

APPENDIX D: EXCERPTS FROM PREVIOUS REPORTS



LEGEND

- Approximate Property Boundary
- Top of Shoreline Bank
- Former Bethlehem Steel Facility
- Former Embayment
- Railroad
- Transformer
- 14.235 Surveyed Elevation (See Note 3)
- 13.67 Survey Elevation Prior to 2001 Construction

No. 08	Excavation Sidewall and Base Sample Location (2001)
JF-DP02	Soil Boring Location (FS Tier 1, 2017)
JF-DP01	Soil Boring Location (FS Tier 2, 2017)
SB-07562	Soil Boring Location (Phase II Investigation, 2005)
SB-07251	Phase II Sampled, But Not Analyzed for PCBs
SB-07227	Soil Boring Location (Phase I Investigation, 2003)
SB-07241	Phase I Sampled, But Not Analyzed for PCBs
SB-1	Soil Boring Location (Farallon, 2004)
P-7	Probe Boring (Dames & Moore)
T3B2	Probe Boring (Floyd|Snyder)
JF-DGT1	Probe Boring Sampled, But Not Analyzed for PCBs

0 40 80

Scale in Feet

NOTES

1. Boring logs to the survey locations show up to one-foot of fill on the Jorgensen Forge property except at SB-07249 where half-foot of fill is logged.
2. 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.
3. Elevation in NGVD29 (feet).

N

8531 East Marginal Way
Tukwila, Washington

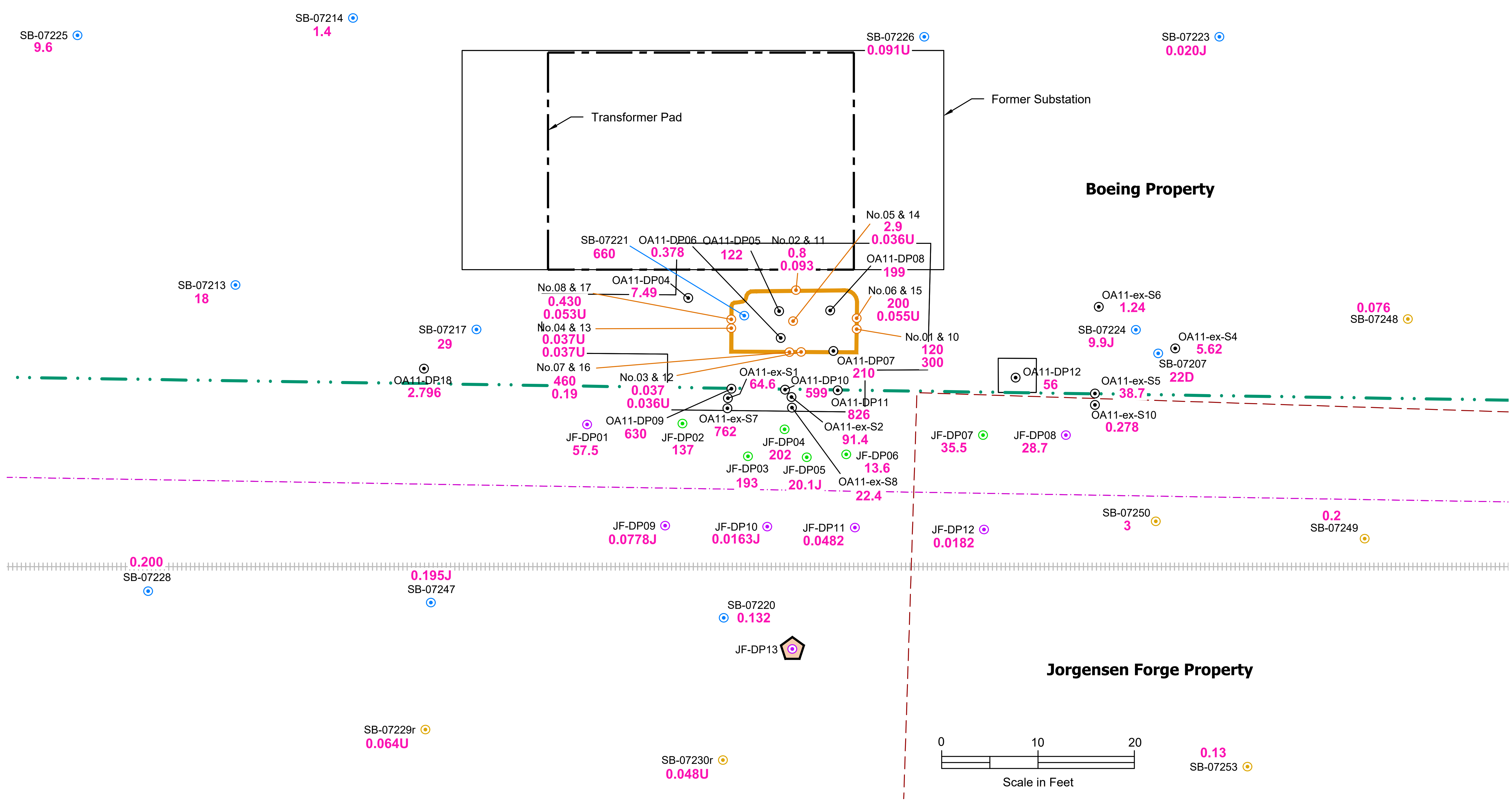
SURVEYED LOCATIONS (2001 AND 2005)

October 2018 21-1-12596-200

SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 1

Filename: J:\211\12596\200\21-1-12596-200 Results.dwg Layout: Figure 1 Date: 10-02-2018 Login: jrs



LEGEND

	Approximate Property Boundary
	Former Bethlehem Steel Facility
	Railroad
0.0482	Total PCBs in mg/kg (Maximum Concentration in Any Depth)
	Not Analyzed for PCBs
mg/kg	Milligrams per Kilograms
No. 08 & 17	Excavation Sidewall and Base Sample Location (2001)
JF-DP02	Soil Boring Location (FS Tier 1, 2017)
JF-DP01	Soil Boring Location (FS Tier 2, 2017)
SB-07227	Soil Boring Location (Phase I Investigation, 2003)
SB-07562	Soil Boring Location (Phase II Investigation, 2005)
OA11-DP10	Soil Boring Location (Previous Sampling)
	Area of Discovery Initial Excavation
U	Non-detect
J	Estimated
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.

8531 East Marginal Way
Tukwila, Washington

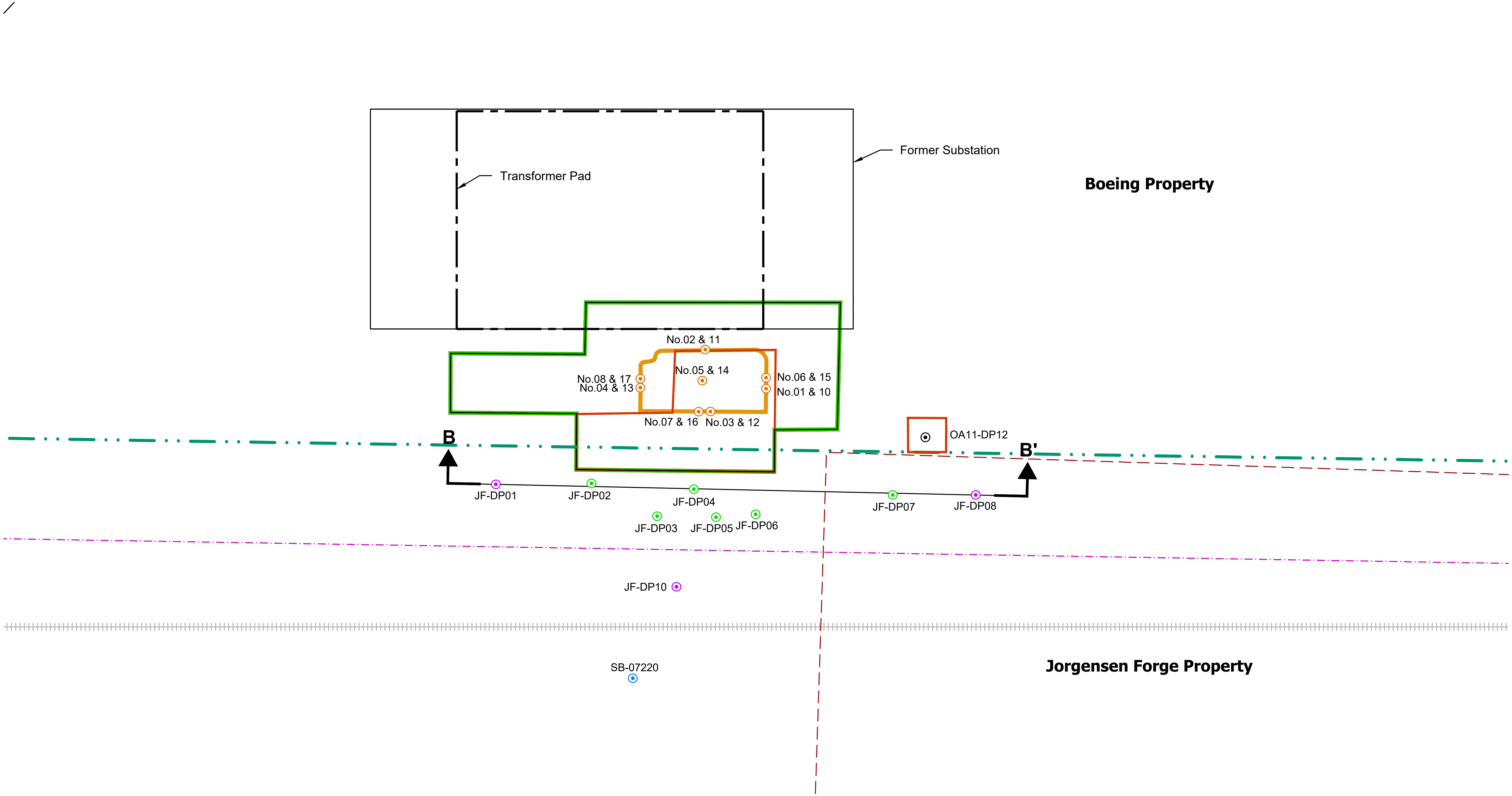
BORING LOCATIONS AND GREATEST PCB RESULTS

October 2018 21-1-12596-200

SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 2

Filename: J:\211\12596\200\21-1-12596-200 Transformer Pad.dwg Layout: Figure 2 Date: 10-02-2018 Login: jrs



LEGEND

	Approximate Property Boundary	
	Former Bethlehem Steel Facility	
	Railroad	
B B'	Generalized Geologic Cross-Section	
No. 08 & 17	Excavation Sidewall and Base Sample Location (2001)	
JF-DP02	Soil Boring Location (FS Tier 1, 2017)	
JF-DP01	Soil Boring Location (FS Tier 2, 2017)	
SB-07227	Soil Boring Location (Phase I Investigation, 2003)	
OA11-DP12	Soil Boring Location (Previous Sampling)	
	Area of Discovery Initial Excavation	
	2016 Excavation to 8 Feet	
	2016 >50 milligrams per kilogram Segregation Area	

0 10 20
Scale in Feet

NOTES
1. Figure adapted from Floyd|Snider *OA-11 Interim Measure Construction Completion Report*, "Final Soil Excavation Extent and Confirmation Sample Locations," dated 11/28/2016.
2. Area of Discovery Initial Excavation's dimensions is based on a field sketch provided by Weston, 2001.

N

8531 East Marginal Way
Tukwila, Washington

SUBSURFACE PROFILE B-B' LOCATION MAP

October 2018 21-1-12596-200

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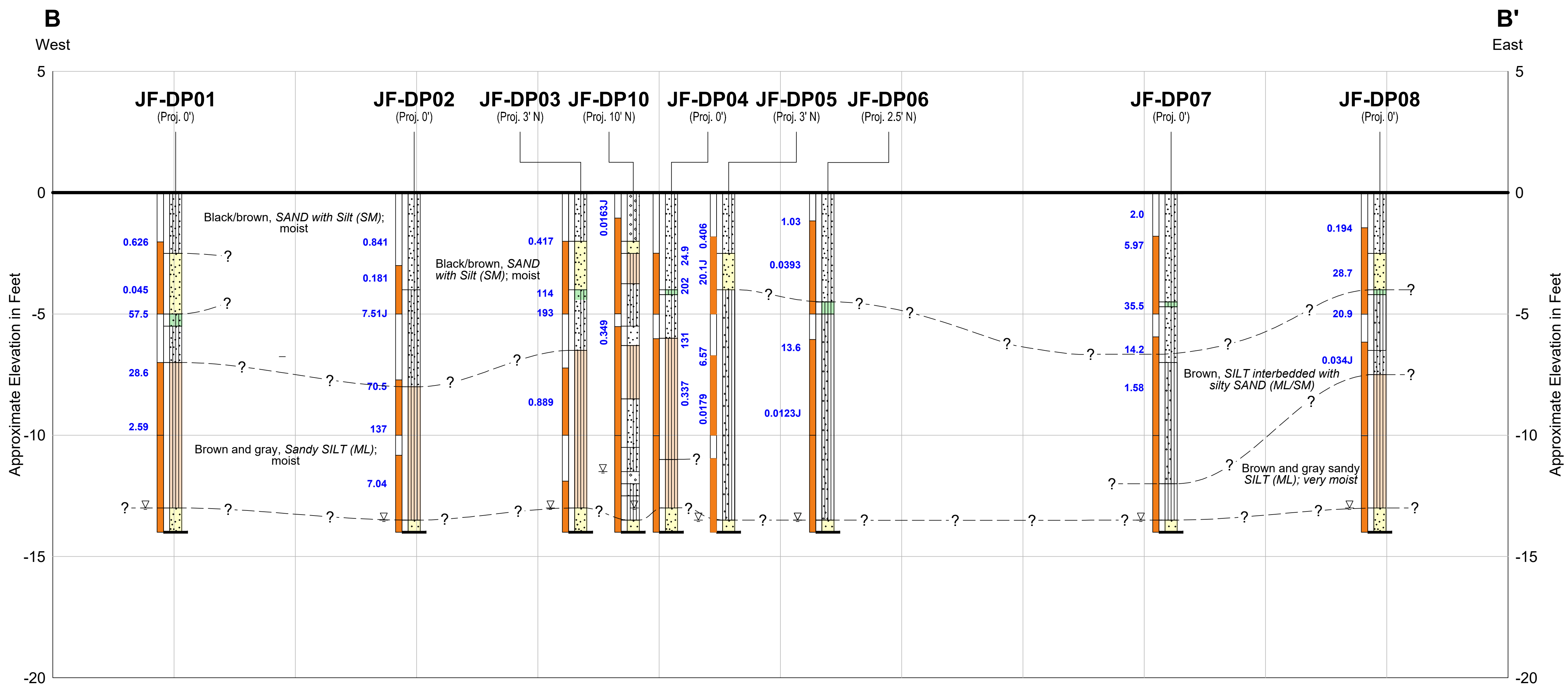
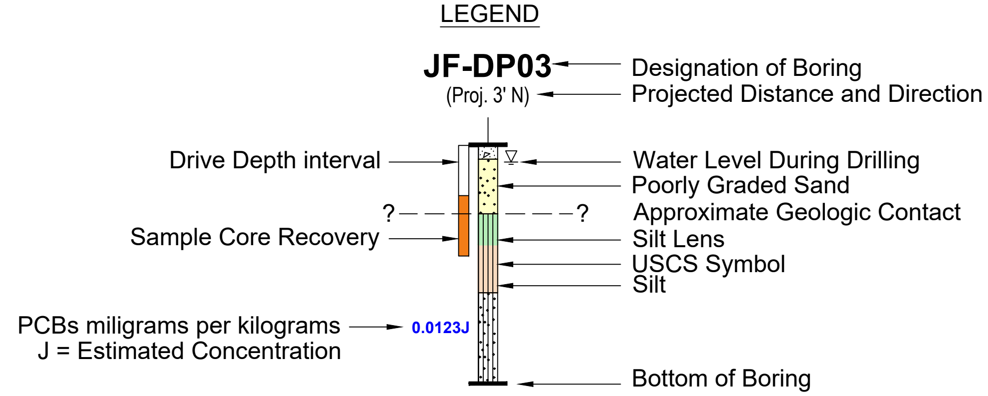
FIG. 3

Filename: J:\211\12596\200\21-1-12596-200 Profile Plan.dwg Layout: Figure 3 Date: 10-02-2018 Login: jrs



LEGEND



DESCRIPTION

SW	Well-Graded Sand; Well-Graded Sand with Gravel
SP	Poorly Graded Sand; Poorly Graded Sand with Gravel
SM	Silty Sand; Silty Sand with Gravel
ML	Silt; Silt with Sand or Gravel; Sandy or Gravelly Silt

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. JF-DP explorations taken from Floyd Snider 2017.

0 5 10

Horizontal and Vertical Scale in Feet

8531 East Marginal Way
Tukwila, Washington

GENERALIZED SUBSURFACE PROFILE B-B'

October 2018 21-1-12596-200

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 4

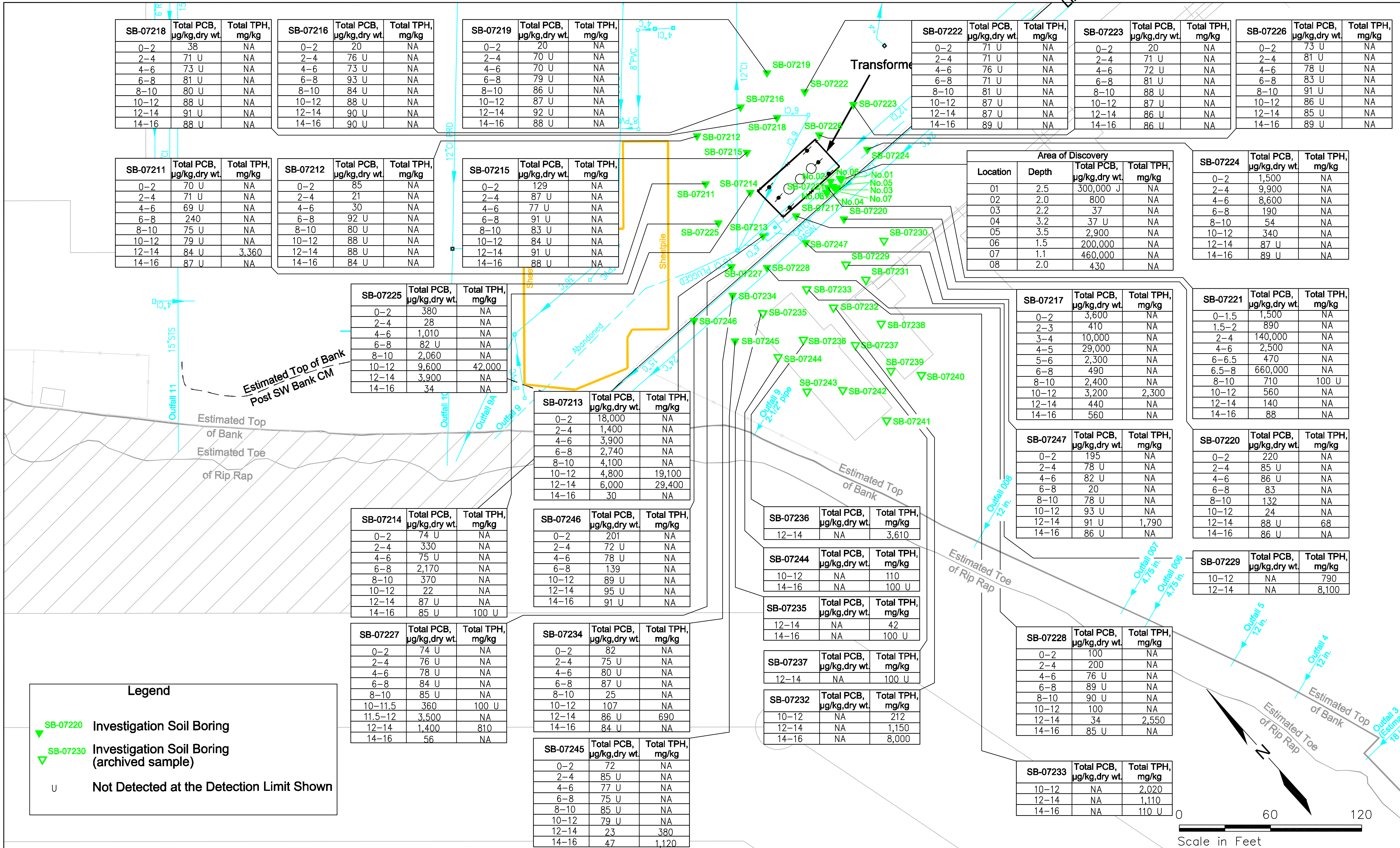
Filename: J:\211\12596\200\21-1-12596-200 Profiles.dwg Layout: Figure 4 Date: 10-02-2018 Login: jrs

Boeing Plant 2
Seattle/Tukwila, Washington

Phase 1 Transformer PCB Investigation Report

Figures

February 24, 2004



SB-07218	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	38	NA
2–4	71 U	NA
4–6	73 U	NA
6–8	81 U	NA
8–10	80 U	NA
10–12	88 U	NA
12–14	91 U	NA
14–16	88 U	NA

SB-07216	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	20	NA
2–4	76 U	NA
4–6	73 U	NA
6–8	93 U	NA
8–10	84 U	NA
10–12	88 U	NA
12–14	90 U	NA
14–16	90 U	NA

SB-07219	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	20	NA
2–4	70 U	NA
4–6	70 U	NA
6–8	79 U	NA
8–10	86 U	NA
10–12	87 U	NA
12–14	92 U	NA
14–16	88 U	NA

SB-07222	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	71 U	NA
2–4	71 U	NA
4–6	76 U	NA
6–8	71 U	NA
8–10	81 U	NA
10–12	87 U	NA
12–14	87 U	NA
14–16	89 U	NA

SB-07223	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	20	NA
2–4	71 U	NA
4–6	72 U	NA
6–8	81 U	NA
8–10	88 U	NA
10–12	87 U	NA
12–14	86 U	NA
14–16	86 U	NA

SB-07226	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	73 U	NA
2–4	81 U	NA
4–6	78 U	NA
6–8	83 U	NA
8–10	91 U	NA
10–12	86 U	NA
12–14	85 U	NA
14–16	89 U	NA

SB-07211	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	70 U	NA
2–4	71 U	NA
4–6	69 U	NA
6–8	240	NA
8–10	75 U	NA
10–12	79 U	NA
12–14	84 U	3,360
14–16	87 U	NA

SB-07212	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	85	NA
2–4	21	NA
4–6	30	NA
6–8	92 U	NA
8–10	80 U	NA
10–12	88 U	NA
12–14	88 U	NA
14–16	84 U	NA

SB-07215	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	129	NA
2–4	87 U	NA
4–6	77 U	NA
6–8	91 U	NA
8–10	83 U	NA
10–12	84 U	NA
12–14	91 U	NA
14–16	88 U	NA

Area of Discovery			
Location	Depth	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
01	2.5	300,000 J	NA
02	2.0	800	NA
03	2.2	37	NA
04	3.2	37 U	NA
05	3.5	2,900	NA
06	1.5	200,000	NA
07	1.1	460,000	NA
08	2.0	430	NA

SB-07224	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	1,500	NA
2–4	9,900	NA
4–6	8,600	NA
6–8	190	NA
8–10	54	NA
10–12	340	NA
12–14	87 U	NA
14–16	89 U	NA

SB-07225	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	380	NA
2–4	28	NA
4–6	1,010	NA
6–8	82 U	NA
8–10	2,060	NA
10–12	9,600	42,000
12–14	3,900	NA
14–16	34	NA

SB-07217	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	3,600	NA
2–3	410	NA
3–4	10,000	NA
4–5	29,000	NA
5–6	2,300	NA
6–8	490	NA
8–10	2,400	NA
10–12	3,200	2,300
12–14	440	NA
14–16	560	NA

SB-07221	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–1.5	1,500	NA
1.5–2	890	NA
2–4	140,000	NA
4–6	2,500	NA
6–6.5	470	NA
6.5–8	660,000	NA
8–10	710	100 U
10–12	560	NA
12–14	140	NA
14–16	88	NA

SB-07213	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	18,000	NA
2–4	1,400	NA
4–6	3,900	NA
6–8	2,740	NA
8–10	4,100	NA
10–12	4,800	19,100
12–14	6,000	29,400
14–16	30	NA

SB-07247	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	195	NA
2–4	78 U	NA
4–6	82 U	NA
6–8	20	NA
8–10	78 U	NA
10–12	93 U	NA
12–14	91 U	1,790
14–16	86 U	NA

SB-07220	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	220	NA
2–4	85 U	NA
4–6	86 U	NA
6–8	83	NA
8–10	132	NA
10–12	24	NA
12–14	88 U	68
14–16	86 U	NA

SB-07214	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	74 U	NA
2–4	330	NA
4–6	75 U	NA
6–8	2,170	NA
8–10	370	NA
10–12	22	NA
12–14	87 U	NA
14–16	85 U	100 U

SB-07246	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	201	NA
2–4	72 U	NA
4–6	78 U	NA
6–8	139	NA
10–12	89 U	NA
12–14	95 U	NA
14–16	91 U	NA

SB-07236	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
12–14	NA	3,610

SB-07244	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
10–12	NA	110
14–16	NA	100 U

SB-07229	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
10–12	NA	790
12–14	NA	8,100

SB-07235	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
12–14	NA	42
14–16	NA	100 U

SB-07227	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	74 U	NA
2–4	76 U	NA
4–6	78 U	NA
6–8	84 U	NA
8–10	85 U	NA
10–11.5	360	100 U
11.5–12	3,500	NA
12–14	1,400	810
14–16	56	NA

SB-07234	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	82	NA
2–4	75 U	NA
4–6	80 U	NA
6–8	87 U	NA
8–10	25	NA
10–12	107	NA
12–14	86 U	690
14–16	84 U	NA

SB-07237	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
12–14	NA	100 U

SB-07228	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	100	NA
2–4	200	NA
4–6	76 U	NA
6–8	89 U	NA
8–10	90 U	NA
10–12	100	NA
12–14	34	2,550
14–16	85 U	NA

SB-07232	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
10–12	NA	212
12–14	NA	1,150
14–16	NA	8,000

SB-07245	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
0–2	72	NA
2–4	85 U	NA
4–6	77 U	NA
6–8	75 U	NA
8–10	85 U	NA
10–12	79 U	NA
12–14	23	380
14–16	47	1,120

SB-07233	Total PCB, µg/kg,dry wt.	Total TPH, mg/kg
10–12	NA	2,020
12–14	NA	1,110
14–16	NA	110 U

Legend

- SB-07220 Investigation Soil Boring
- SB-07230 Investigation Soil Boring (archived sample)
- U Not Detected at the Detection Limit Shown

Floyd Snider McCarthy, Inc.
Strategy and Technical Solutions for Contaminated Properties

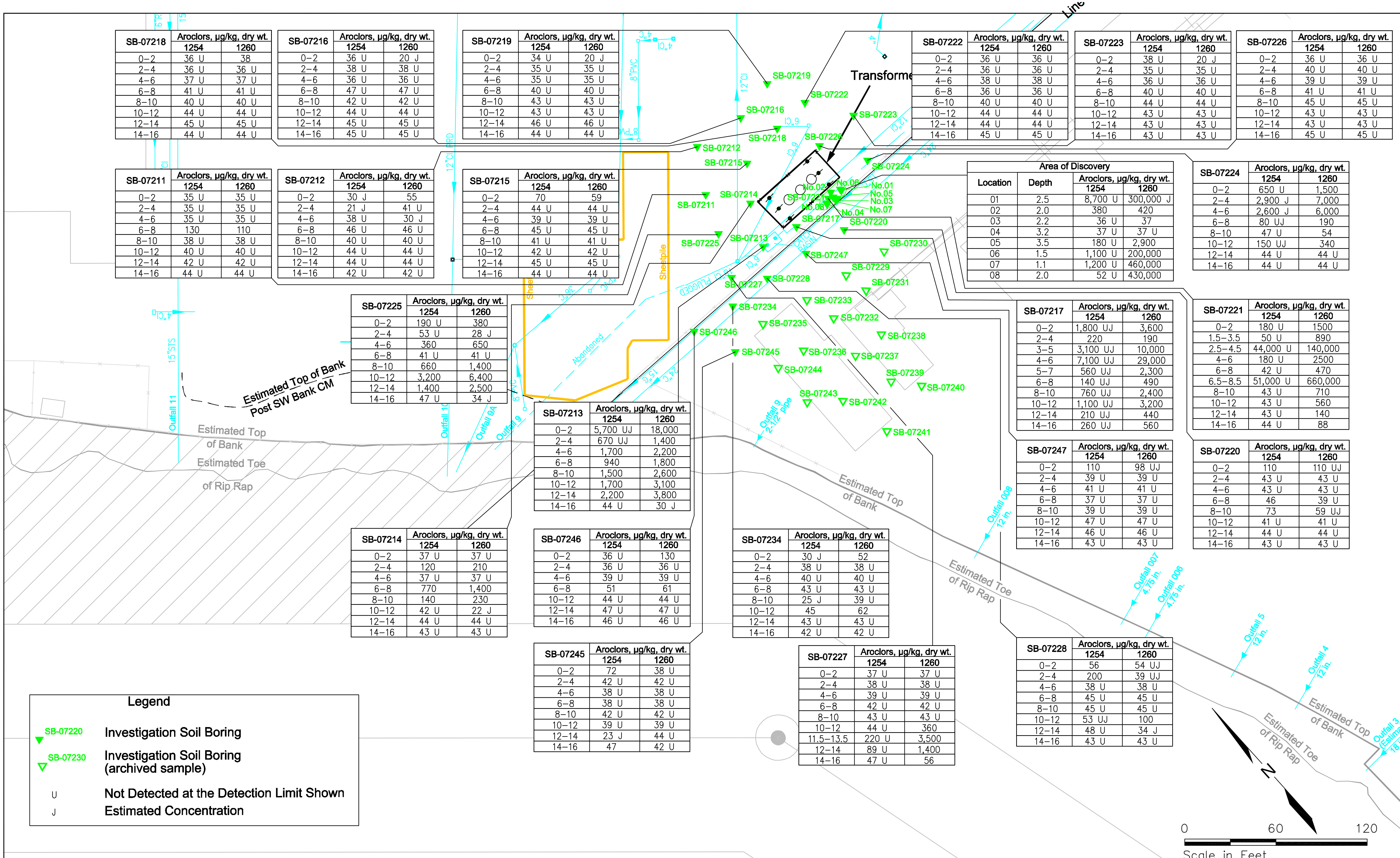
BOEING

Phase 1 Transformer PCB Investigation Report
Boeing Plant 2
Seattle, Washington

Figure 3.1
Total PCB and Total TPH Analytical Results for Soil

DWG NAME: G:\project\Clients\Floyd and Snider\boeing\BOE_PL2_050_T2\boepl2_04ALT.dwg
DATE: 02/23/04 3:31pm

February 24, 2004



SB-07218	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	36 U	38
2–4	36 U	36 U
4–6	37 U	37 U
6–8	41 U	41 U
8–10	40 U	40 U
10–12	44 U	44 U
12–14	45 U	45 U
14–16	44 U	44 U

SB-07216	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	36 U	20 J
2–4	38 U	38 U
4–6	36 U	36 U
6–8	47 U	47 U
8–10	42 U	42 U
10–12	44 U	44 U
12–14	45 U	45 U
14–16	45 U	45 U

SB-07219	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	34 U	20 J
2–4	35 U	35 U
4–6	35 U	35 U
6–8	40 U	40 U
8–10	43 U	43 U
10–12	43 U	43 U
12–14	46 U	46 U
14–16	44 U	44 U

SB-07222	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	36 U	36 U
2–4	36 U	36 U
4–6	38 U	38 U
6–8	36 U	36 U
8–10	40 U	40 U
10–12	44 U	44 U
12–14	44 U	44 U
14–16	45 U	45 U

SB-07223	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	38 U	20 J
2–4	35 U	35 U
4–6	36 U	36 U
6–8	40 U	40 U
8–10	44 U	44 U
10–12	43 U	43 U
12–14	43 U	43 U
14–16	43 U	43 U

SB-07226	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	36 U	36 U
2–4	40 U	40 U
4–6	39 U	39 U
6–8	41 U	41 U
8–10	45 U	45 U
10–12	43 U	43 U
12–14	43 U	43 U
14–16	45 U	45 U

SB-07211	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	35 U	35 U
2–4	35 U	35 U
4–6	35 U	35 U
6–8	130	110
8–10	38 U	38 U
10–12	40 U	40 U
12–14	42 U	42 U
14–16	44 U	44 U

SB-07212	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	30 J	55
2–4	21 J	41 U
4–6	38 U	30 J
6–8	46 U	46 U
8–10	40 U	40 U
10–12	44 U	44 U
12–14	44 U	44 U
14–16	42 U	42 U

SB-07215	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	70	59
2–4	44 U	44 U
4–6	39 U	39 U
6–8	45 U	45 U
8–10	41 U	41 U
10–12	42 U	42 U
12–14	45 U	45 U
14–16	44 U	44 U

Area of Discovery			
Location	Depth	Aroclors, µg/kg, dry wt.	
		1254	1260
01	2.5	8,700 U	300,000 J
02	2.0	380	420
03	2.2	36 U	37
04	3.2	37 U	37 U
05	3.5	180 U	2,900
06	1.5	1,100 U	200,000
07	1.1	1,200 U	460,000
08	2.0	52 U	430,000

SB-07224	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	650 U	1,500
2–4	2,900 J	7,000
4–6	2,600 J	6,000
6–8	80 UJ	190
8–10	47 U	54
10–12	150 UJ	340
12–14	44 U	44 U
14–16	44 U	44 U

SB-07225	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	190 U	380
2–4	53 U	28 J
4–6	360	650
6–8	41 U	41 U
8–10	660	1,400
10–12	3,200	6,400
12–14	1,400	2,500
14–16	47 U	34 J

SB-07213	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	5,700 UJ	18,000
2–4	670 UJ	1,400
4–6	1,700	2,200
6–8	940	1,800
8–10	1,500	2,600
10–12	1,700	3,100
12–14	2,200	3,800
14–16	44 U	30 J

SB-07217	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	1,800 UJ	3,600
2–4	220	190
3–5	3,100 UJ	10,000
4–6	7,100 UJ	29,000
5–7	560 UJ	2,300
6–8	140 UJ	490
8–10	760 UJ	2,400
10–12	1,100 UJ	3,200
12–14	210 UJ	440
14–16	260 UJ	560

SB-07221	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	180 U	1500
1.5–3.5	50 U	890
2.5–4.5	44,000 U	140,000
4–6	180 U	2500
6–8	42 U	470
6.5–8.5	51,000 U	660,000
8–10	43 U	710
10–12	43 U	560
12–14	43 U	140
14–16	44 U	88

SB-07247	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	110	98 UJ
2–4	39 U	39 U
4–6	41 U	41 U
6–8	37 U	37 U
8–10	39 U	39 U
10–12	47 U	47 U
12–14	46 U	46 U
14–16	43 U	43 U

SB-07220	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	110	110 UJ
2–4	43 U	43 U
4–6	43 U	43 U
6–8	46	39 U
8–10	73	59 UJ
10–12	41 U	41 U
12–14	44 U	44 U
14–16	43 U	43 U

SB-07214	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	37 U	37 U
2–4	120	210
4–6	37 U	37 U
6–8	770	1,400
8–10	140	230
10–12	42 U	22 J
12–14	44 U	44 U
14–16	43 U	43 U

SB-07246	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	36 U	130
2–4	36 U	36 U
4–6	39 U	39 U
6–8	51	61
10–12	44 U	44 U
12–14	47 U	47 U
14–16	46 U	46 U

SB-07234	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	30 J	52
2–4	38 U	38 U
4–6	40 U	40 U
6–8	43 U	43 U
8–10	25 J	39 U
10–12	45	62
12–14	43 U	43 U
14–16	42 U	42 U

SB-07245	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	72	38 U
2–4	42 U	42 U
4–6	38 U	38 U
6–8	38 U	38 U
8–10	42 U	42 U
10–12	39 U	39 U
12–14	23 J	44 U
14–16	47	42 U

SB-07227	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	37 U	37 U
2–4	38 U	38 U
4–6	39 U	39 U
6–8	42 U	42 U
8–10	43 U	43 U
10–12	44 U	360
11.5–13.5	220 U	3,500
12–14	89 U	1,400
14–16	47 U	56

SB-07228	Aroclors, µg/kg, dry wt.	
	1254	1260
0–2	56	54 UJ
2–4	200	39 UJ
4–6	38 U	38 U
6–8	45 U	45 U
8–10	45 U	45 U
10–12	53 UJ	100
12–14	48 U	34 J
14–16	43 U	43 U

Legend

SB-07220 Investigation Soil Boring

SB-07230 Investigation Soil Boring (archived sample)

U Not Detected at the Detection Limit Shown

J Estimated Concentration

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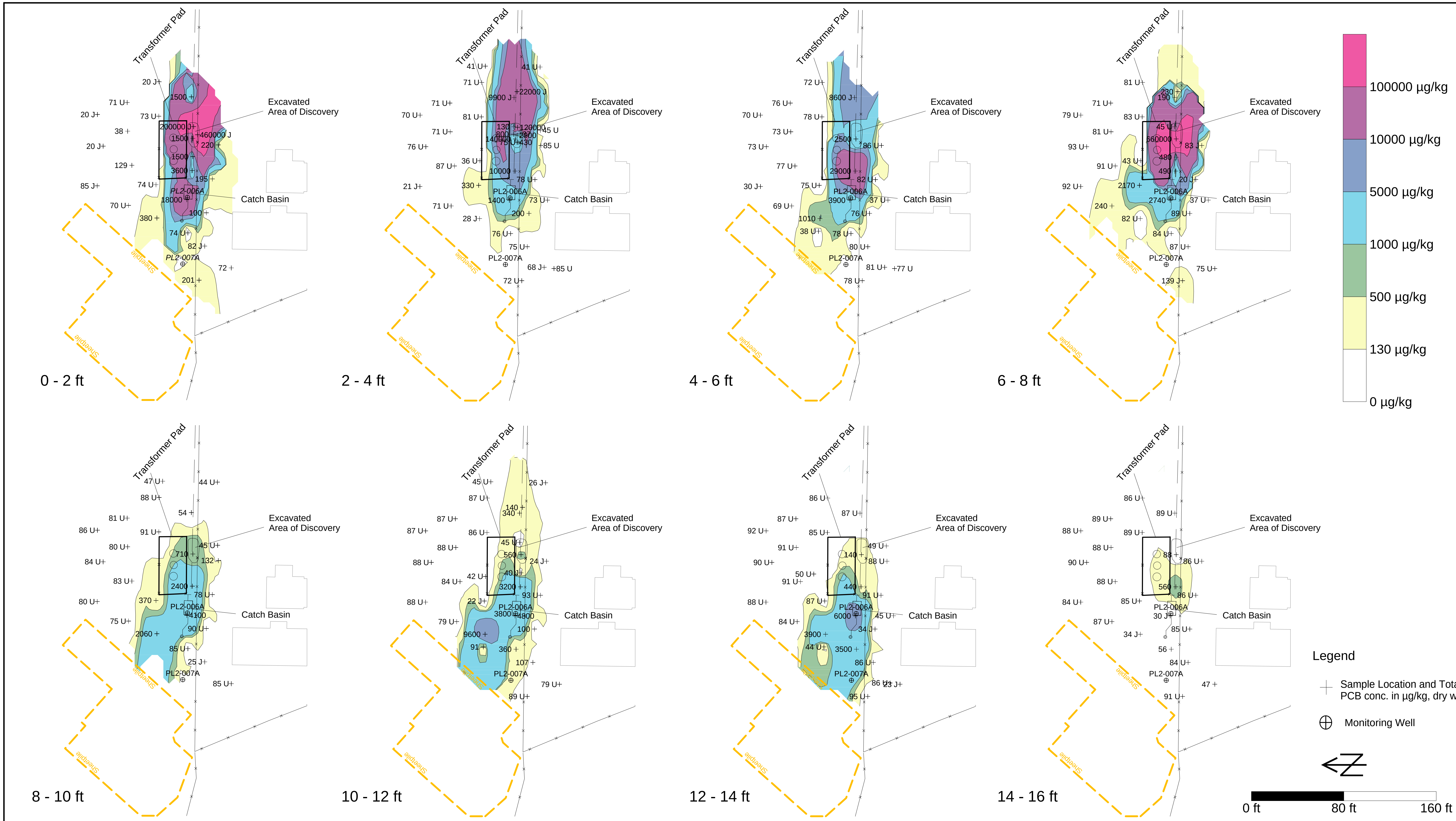
BOEING

Phase 1 Transformer PCB Investigation Report
Boeing Plant 2
Seattle, Washington

Figure 3.2
PCB Aroclor 1254 and 1260 Analytical Results for Soil

DWG NAME: G:\project\Clients\Floyd and Snider\boeing\BOE_PL2_050_T2\boepl2_05.dwg
DATE: 02/20/04 11:46am

February 24, 2004



Floyd Snider McCarthy, Inc.
Strategy and Technical Solutions for Contaminated Properties

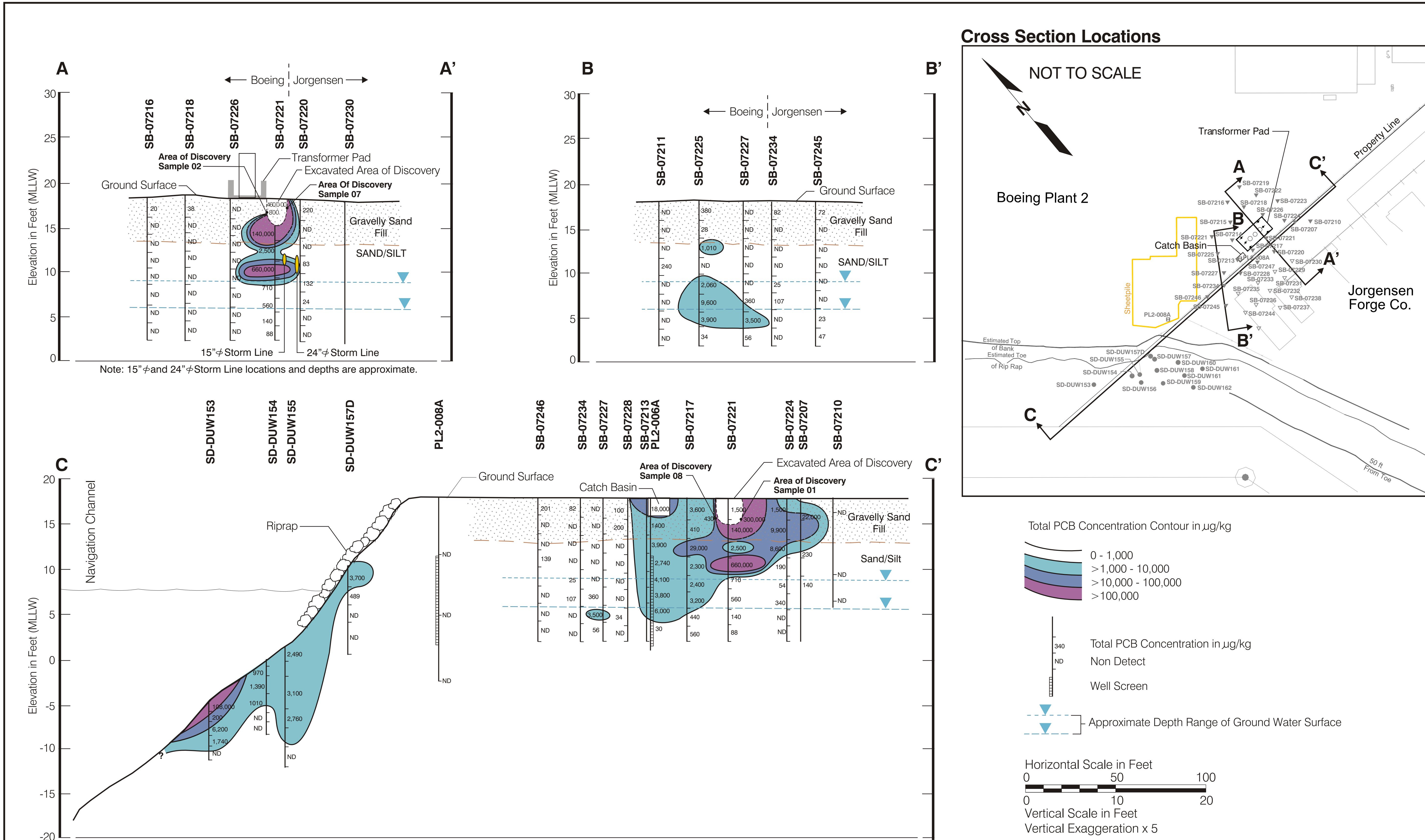
BOEING

Phase 1 Transformer PCB Investigation Report
Boeing Plant 2
Seattle, Washington

Figure 3.3
Isoconcentration Contours of Total PCB in Soil Including Phase 1 Transformer and RFI Data: Variation with Depth

DATE: 02/23/04 15:45:37
SRF NAME: F:\Data\projects\Boeing - Plant 2\GIS\Transformer Rpt\Fig 3.3 - Max TPCB Depth Soil.srf

February 24, 2004



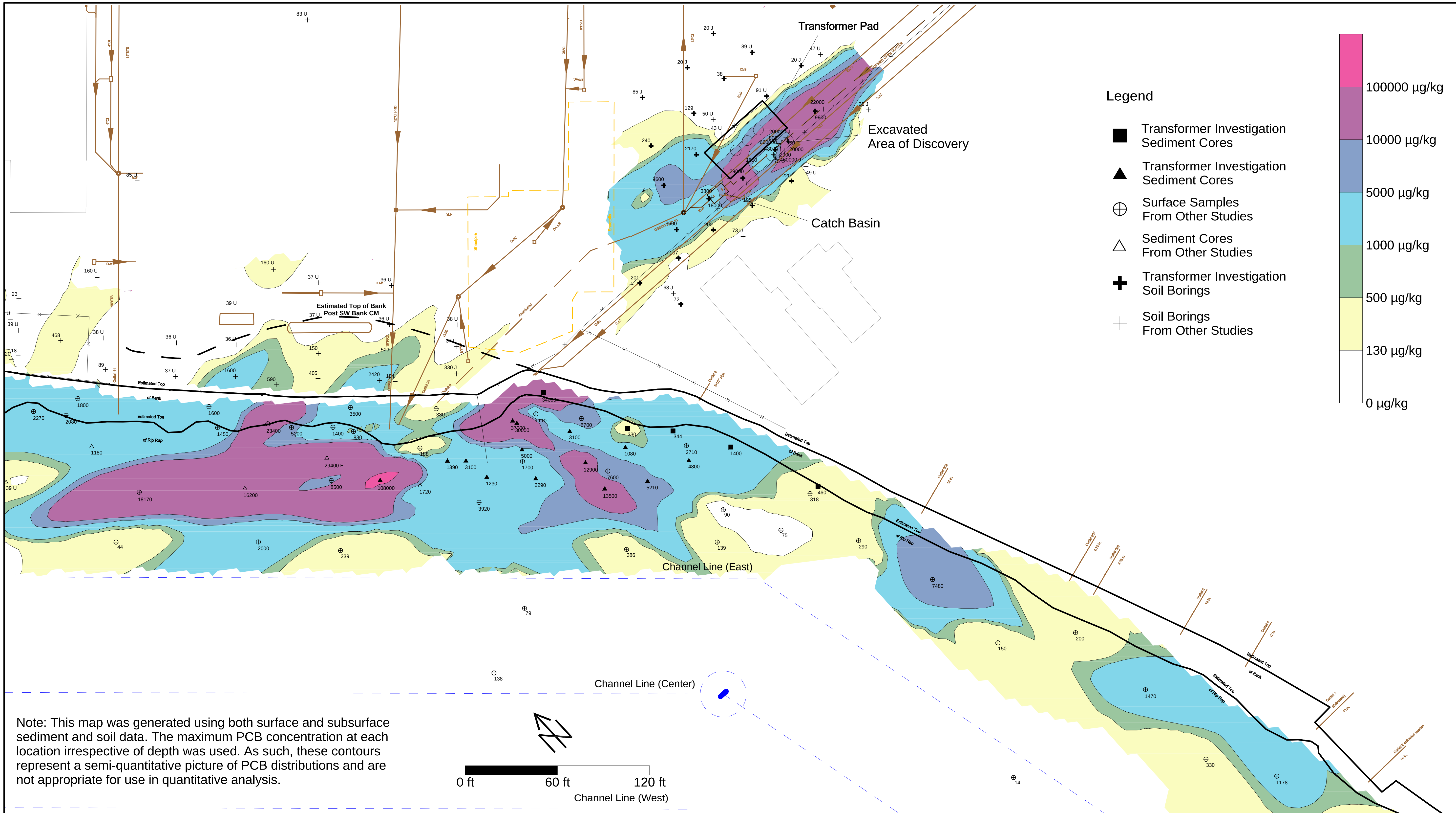
Floyd Snider McCarthy, Inc.

BOEING

Phase 1 Transformer PCB Investigation Report
Boeing Plant 2
Seattle, Washington

Figure 3.5
Cross Sections A-A’, B-B’, and C-C’ Showing Contoured Total PCB Concentrations in Soil and Sediment

February 24, 2004



Floyd Snider McCarthy, Inc.
Strategy and Technical Solutions for Contaminated Properties

BOEING

Phase 1 Transformer PCB Investigation Report
Boeing Plant 2
Seattle, Washington

Figure 4.2
Isoconcentration Contours of Maximum Total PCB Concentrations in Soil and Sediment

DATE: 02/23/04 15:45:08
SRF NAME: F:\Data\projects\Boeing - Plant 2\GIS\Transformer Rpt\Fig 4.2 - Max TPCB.srf

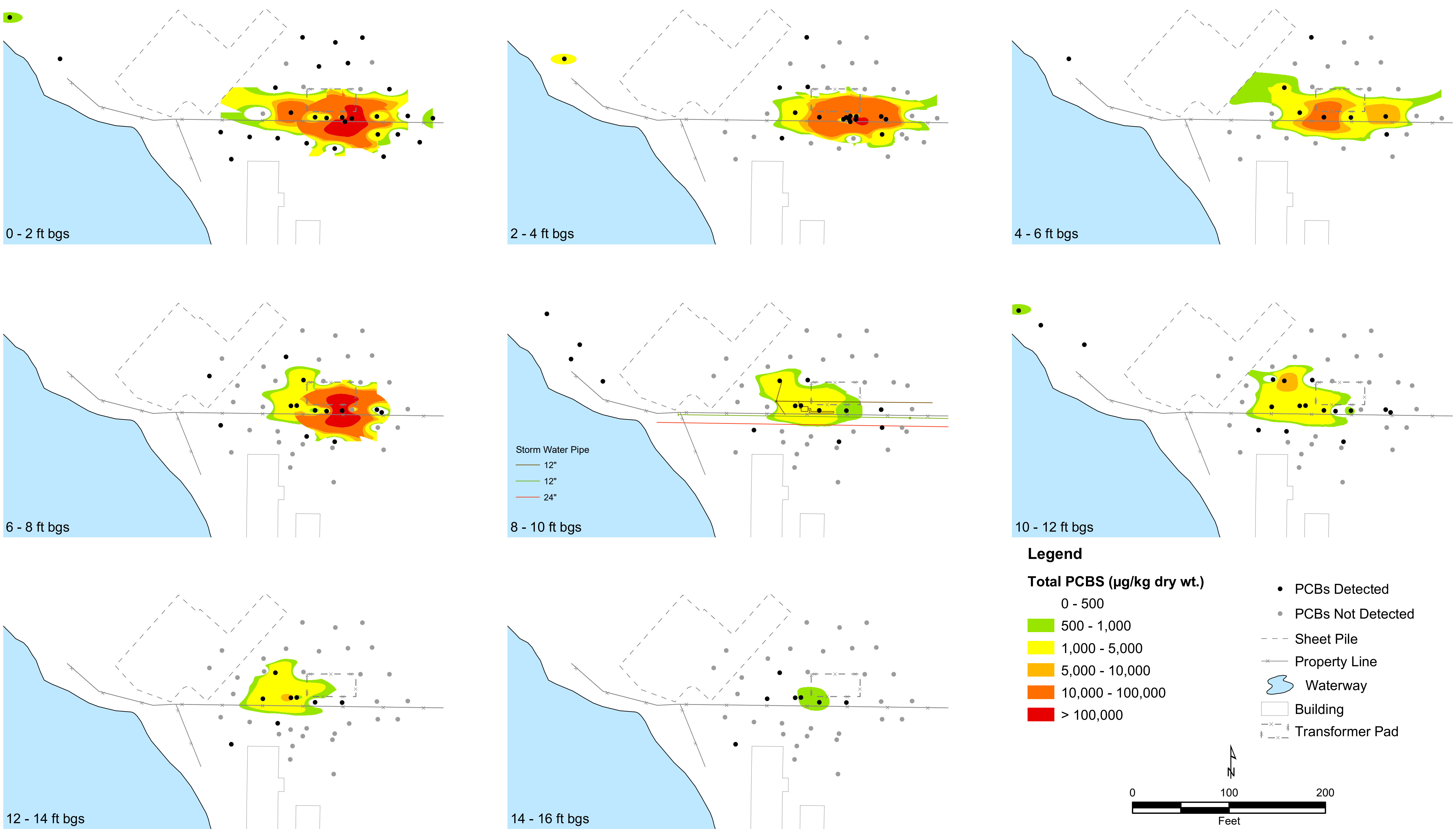
February 24, 2004

Boeing Plant 2
Seattle, Washington

Phase II Transformer PCB Investigation Report

Figures

August 3, 2005



NOTE: Includes RFI, SW Bank, Area of Discovery, Phase I and Phase II data

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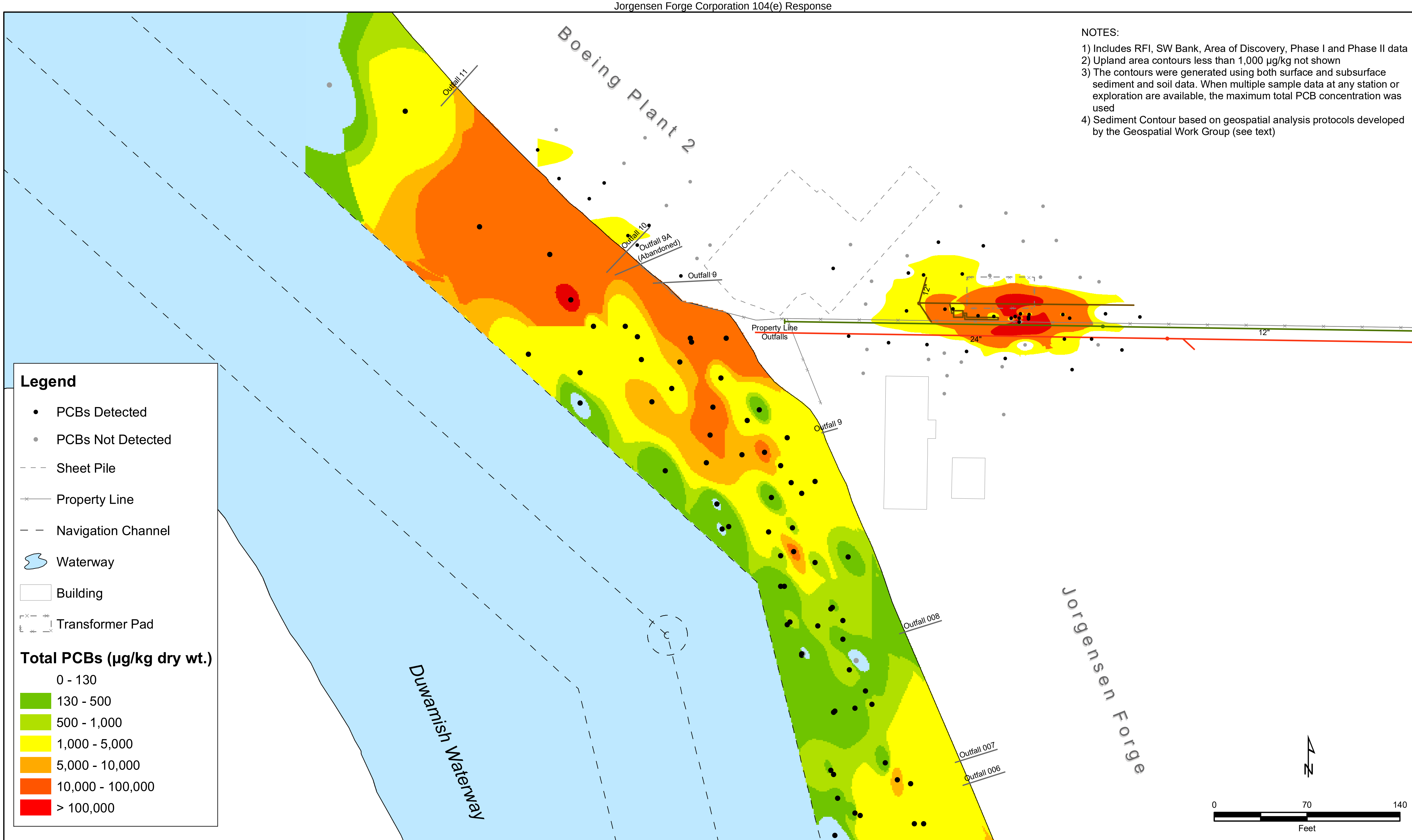
Phase II Transformer PCB Investigation
Boeing Plant 2
Seattle, Washington

Figure 3.3
Isoconcentration Contours of Total PCBs in Soil
- Variation with Depth

DATE: 8/1/2005 11:18:51 AM
MXD NAME: \\Sam\Data\projects\Boeing - Plant 2\GIS\Phase II Trans Rpt\Figure 3.3 - Total PCB Iso.mxd

August 3, 2005



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Phase II Transformer PCB Investigation
Boeing Plant 2
Seattle, Washington

Figure 4.2
Isoconcentration Contours of
Maximum Total PCBs in Soil and Sediment

DATE: 8/1/2005 3:55:38 PM
MXD NAME: \\Sam\Data\projects\Boeing - Plant 2\GIS\Phase II Trans Rpt\Figure 4.2 - Max TPCB Iso.mxd

August 3, 2005

Boeing Plant 2

Interim Measure Construction Completion Report for OA-11

Prepared for

The Boeing Company
P.O. Box 3707
Seattle, Washington 98124-2207

November 2016

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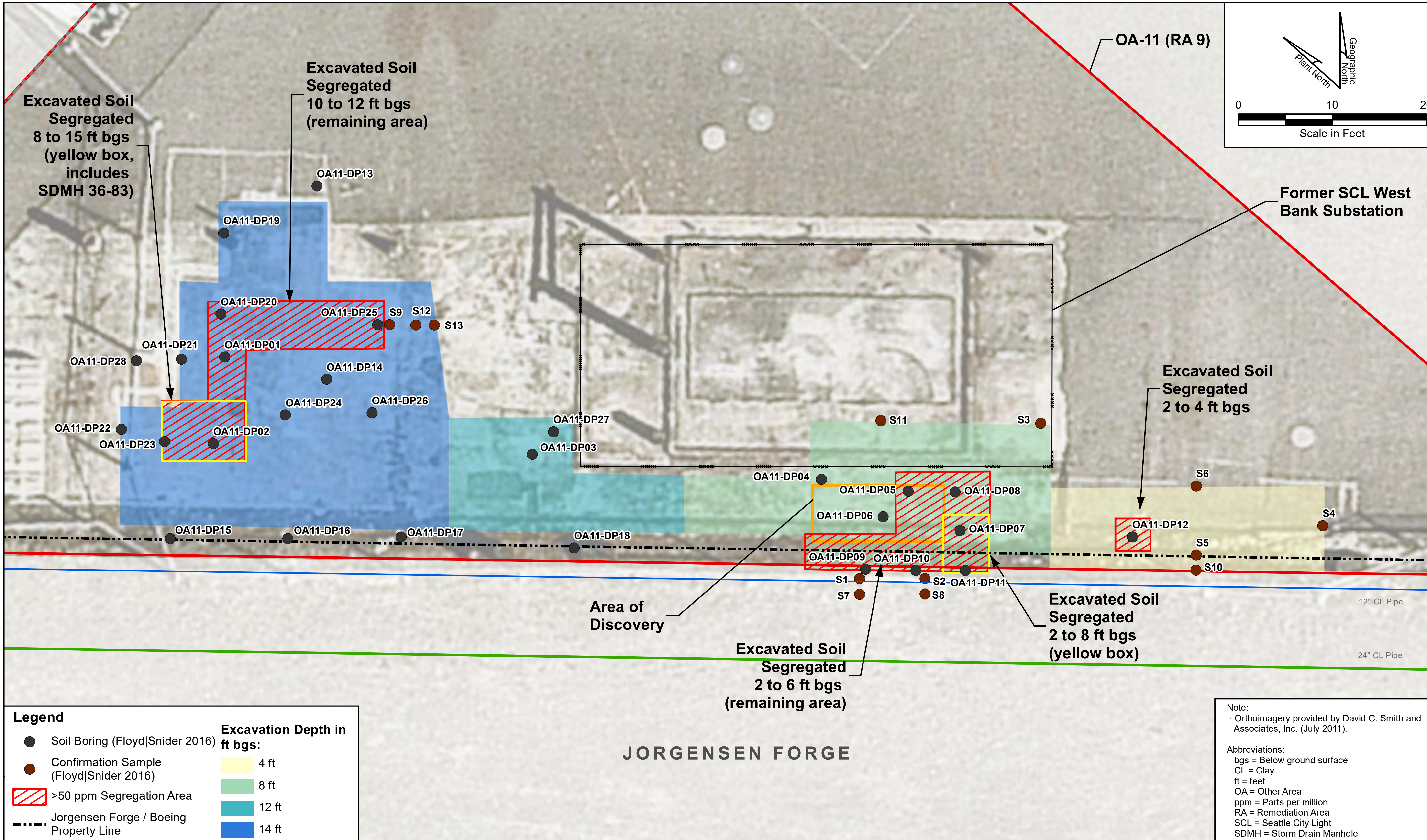
Two Union Square • 601 Union Street • Suite 600
Seattle, Washington 98101 • tel: 206.292.2078



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OA-11 Interim Measure Construction Completion Report
Boeing Plant 2
Seattle/Tukwila, Washington

Figure 4.1
Final Soil Excavation Extent
and Confirmation Sample Locations

I:\GIS\Projects\BOE-PL2\MXD\OA-11 Interim Measure 2016\IM Construction Completion Report\Figure 4.1 Final Soil Excavation Extent and Confirmation Sample Locations.mxd
11/28/2016

Table 4.1
Summary of PCB Soil Sample Results Collected during Construction

Sample Location[1]	Sample Depth (feet bgs)	Sample ID	Location Description[1]	Sample Date	Total PCB Concentration[2] (mg/kg)	Outcome
OA11-ex-S1	4.25	OA11-ex-S1-4.25	8-foot excavation area: SW sidewall, 1.0 ft south of Jorgensen curb	9/6/2016	**64.6**	Sample to document concentration at extent of excavation to administrative boundary
OA11-ex-S2	4	OA11-ex-S2-4	8-foot excavation area: SE sidewall, 1.0 ft south of Jorgensen curb	9/6/2016	**91.4 J**	Sample to document concentration at extent of excavation to administrative boundary
OA11-ex-S3	4.2	OA11-ex-S3-4.2	8-foot excavation area: NE sidewall	9/8/2016	0.020 U	Final confirmation sample
OA11-ex-S4	2	OA11-ex-S4-2	4-foot excavation area: E sidewall	9/9/2016	5.62	Final confirmation sample
OA11-ex-S5	2	OA11-ex-S5-2	4-foot excavation area: S sidewall	9/9/2016	~~38.7~~	Excavation extended 2 feet to the south; sample removed
OA11-ex-S6	2	OA11-ex-S6-2	4-foot excavation area: N sidewall	9/9/2016	1.24	Final confirmation sample
OA11-ex-S7	3.6	OA11-ex-S7-3.6	8-foot excavation area: 3.0 ft south of Jorgensen curb (SW)	9/12/2016	**486**	PM (USEPA and Boeing) decision to leave in place, beyond administrative boundary
OA11-ex-S7	6	OA11-ex-S7-6	8-foot excavation area: 3.0 ft south of Jorgensen curb (SW)	9/12/2016	**762**	PM (USEPA and Boeing) decision to leave in place, beyond administrative boundary
OA11-ex-S8	3	OA11-ex-S8-3	8-foot excavation area: 3.0 ft south of Jorgensen curb (SE)	9/12/2016	**21.9**	PM (USEPA and Boeing) decision to leave in place, beyond administrative boundary
OA11-ex-S8	6	OA11-ex-S8-6	8-foot excavation area: 3.0 ft south of Jorgensen curb (SE)	9/12/2016	**22.4**	PM (USEPA and Boeing) decision to leave in place, beyond administrative boundary
OA11-ex-S9	8	OA11-ex-S9-8	14-foot excavation area: NE sidewall	9/13/2016	~~55.7~~ J	Excavation extended 2 feet to the east; sample removed
OA11-ex-S9	11	OA11-ex-S9-11	14-foot excavation area: NE sidewall, extent of >50 ppm PCB delineation	9/13/2016	~~20.9~~	Excavation extended 2 feet to the east; sample removed
OA11-ex-S10	2	OA11-ex-S10-2	4-foot excavation area: S sidewall	9/13/2016	0.278	Final sidewall confirmation sample
OA11-ex-S11	4	OA11-ex-S11-4	8-foot excavation area: NW sidewall	9/13/2016	0.088	Final confirmation sample
OA11-ex-S12	8	OA11-ex-S12-8	14-foot excavation area: NE sidewall	9/15/2016	~~2.89~~	Final confirmation sample, but sidewall cave-in extended final sidewall limits to location OA-11-exS13
OA11-ex-S13	8	OA11-ex-S13-8	14-foot excavation area: NE sidewall, extended sample	9/15/2016	6.87 J	Final confirmation sample

Notes:

Bold/Red Concentration that remains in place beyond the administrative boundary is greater than the Final Media Cleanup Level (FMCL).
~~Strikethrough~~ Indicates that the excavation was extended and the sample was removed.
1 Sample locations are shown on Figures 4.3a and 4.3b.
2 PCB results are presented as total Aroclors in milligrams per kilogram (mg/kg) or parts per million (ppm).

Abbreviations:

bgs Below ground surface
Boeing The Boeing Company
mg/kg Milligrams per kilogram
PCB Polychlorianted biphenyl
PM Project manager
USEPA U.S. Environmental Protection Agency

Qualifiers:

J Not detected at a concentration greater than the laboratory method detection limit.
U Analyte was not detected, concentration is the reporting limit.

APPENDIX D: EXCERPTS FROM PREVIOUS REPORTS

ATTACHMENT D-4

Tables and Figures from Early Investigations (Areas 1 through 4)

2/90
Phase I
D/M
Limited Site Characteriz. Results

Privileged and
Confidential

LIMITED SITE CHARACTERIZATION
EARLE M. JORGENSEN COMPANY
SEATTLE, WASHINGTON

1.0 INTRODUCTION

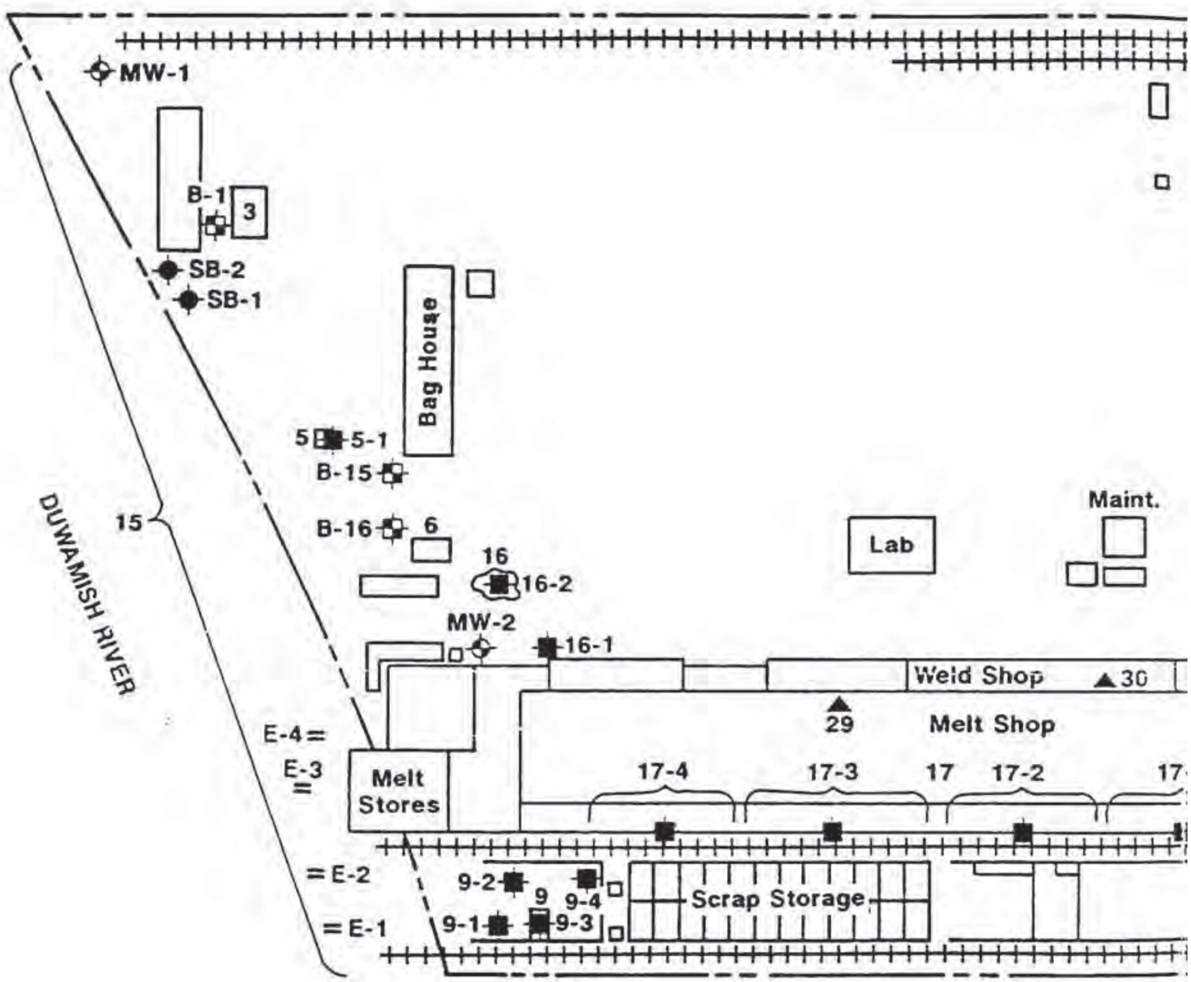
Presented in this section are the results of the limited site characterization conducted at the Earle M. Jorgensen Company Forge Facility (Jorgensen) located at 8531 E. Marginal Way South, Seattle, Washington (Figure 1). A site visit was conducted on February 8, 1990 as part of a Preliminary Site Assessment (PSA) (Volume I, Table 27).

During the PSA, Dames & Moore identified areas at the Jorgensen site suspected of exhibiting potential environmental impairment due to chemical substances. The PSC was conducted to provide a preliminary evaluation of the environmental conditions at the specific locations identified. The PSC was conducted from February 28 through March 2, 1990 and included a limited program of drilling and sampling of ground water, surface soil, subsurface soil, and discharges to the Duwamish River.

2.0 PURPOSE AND SCOPE OF SERVICES

The purpose of the limited site characterization was to evaluate, at a preliminary level, the environmental conditions at specific areas of the Jorgensen site that were suspected of contributing to potential environmental impairment due to

122954



LEGEND:

1	Heating Oil Tank	15	Area of Outfalls
2	Niles Hollow Bore Tank Pit	16	Beneath Air Emission Equipment Dust on Ground
3	Storage Bulding	17	Area Between Building and South Fence
5	Sludge Location		Monitoring Wells
6	Acid House and Pit		Shallow Soil Borings
9	Slag Pit		Soil Borings
10	Diesel Tank Locations		Surface Samples
11	Oil/Water Separator	▲	Positive Asbestos Sample
13	Gasoline Tanks	=	Liquid Discharges Observed 03/02/90

0

Ap

Job No. 20136-002-005

Privileged and Confidential

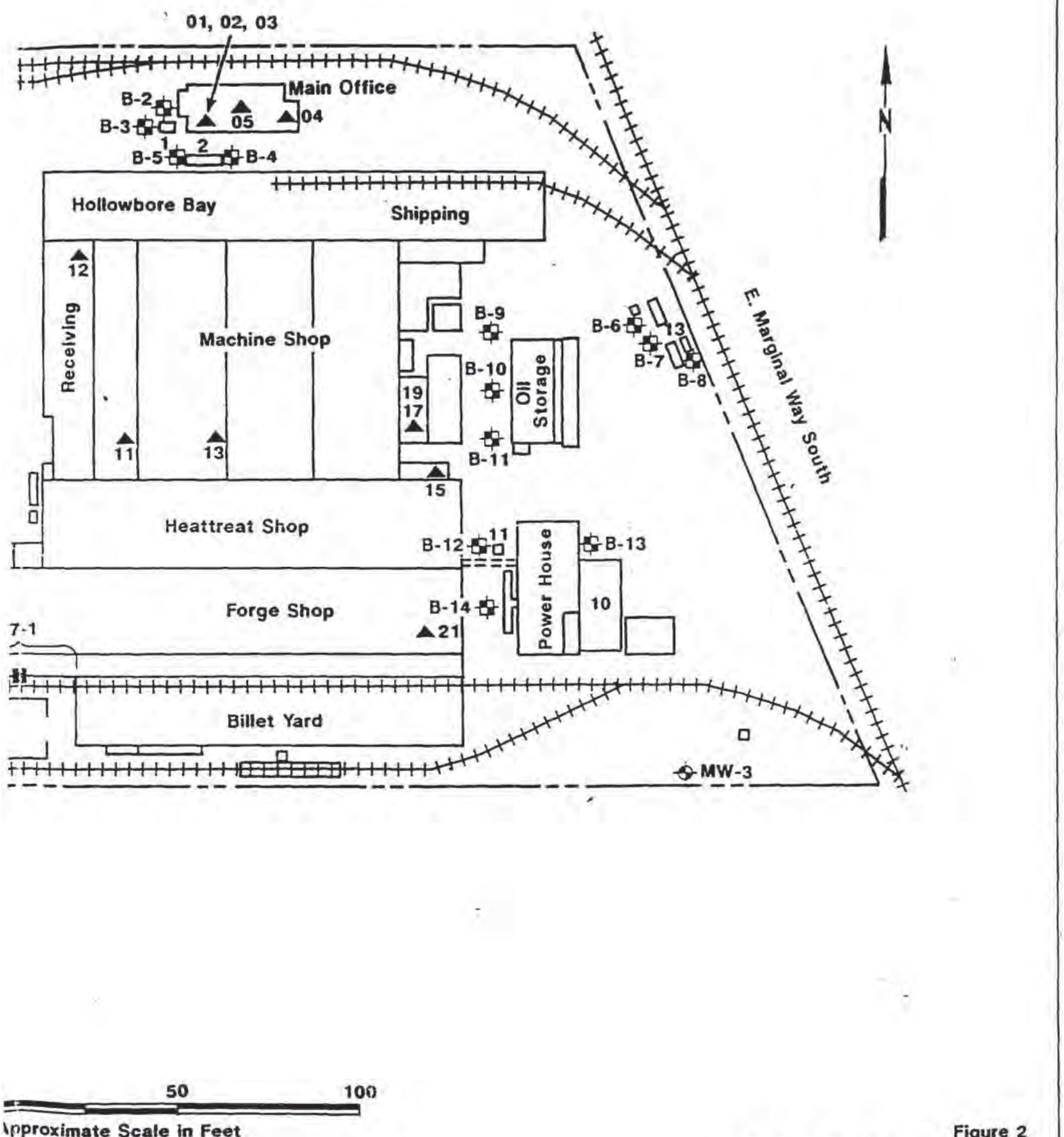


Figure 2
Earle M. Jorgensen Co.
Schematic Plot Plan
Dames & Moore

SEACOR
Science & Engineering
Analysis Corporation
DRAFT
AREA 1 RI/FS

DRAFT
AREA 1 - HOLLOWBORE AREA
FOCUSED REMEDIAL INVESTIGATION/
FEASIBILITY STUDY
FORGE FACILITY
8531 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

SEACOR Job No. 00075-018-01

Submitted by
SEACOR

For
Earle M. Jorgensen Company
3050 East Birch Street
Brea, CA 92621

February 19, 1993

Prepared by:

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Associate Scientist

Nancy Gossett, P.E.
Senior Engineer

William Lider, P.E.
Senior Engineer

Reviewed by:

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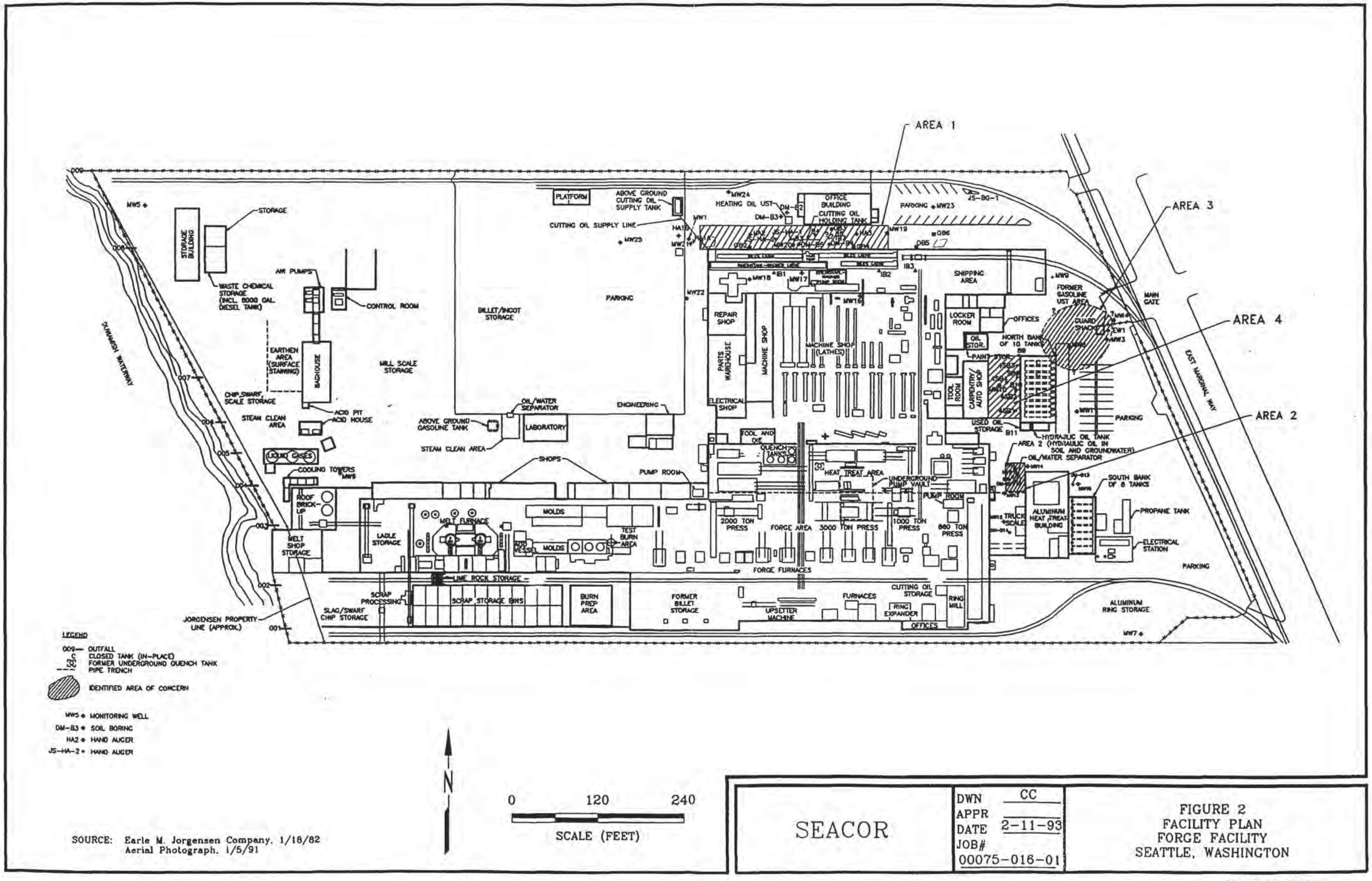
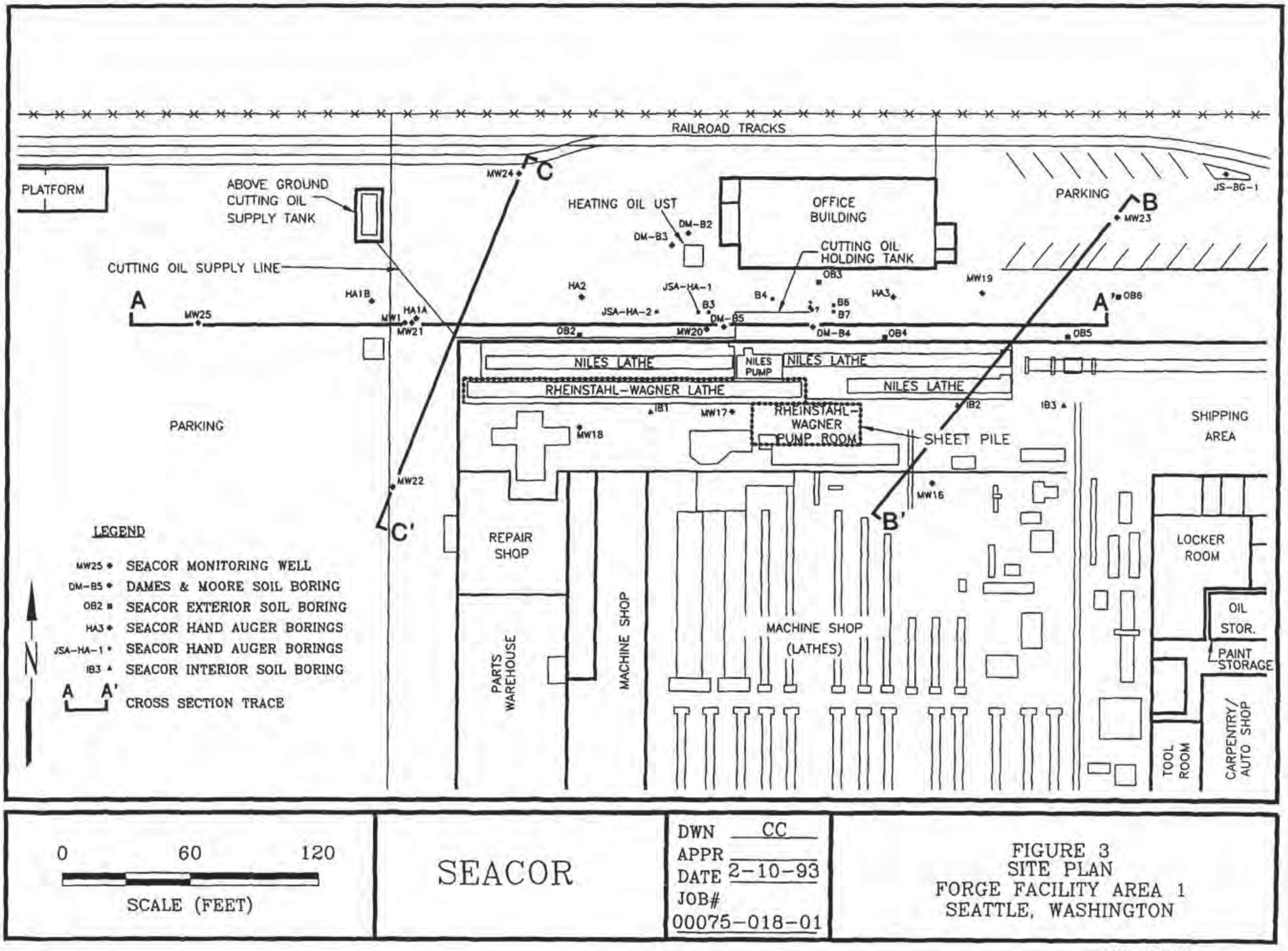
 11040 Main Street, Suite 240, Bellevue, WA 98004 (206) 646-0280 Ph (206) 646-0283 Fax


AREA 1
AREA 2
AREA 3
AREA 4
DUWAMISH WATERWAY
EAST MARGINAL WAY
STORAGE BUILDING
STORAGE
WASTE CHEMICAL STORAGE (INCL. 6000 GAL DIESEL TANK)
AIR PUMPS
CONTROL ROOM
EARTHEN AREA (SURFACE STAINING)
BAGHOUSE
MILL SCALE STORAGE
CHIP/SWARF SCALE STORAGE
STEAM CLEAN AREA
ACID PIT
ACID HOUSE
LIQUID GASES
COOLING TOWERS
BILLET/INGOT STORAGE
PARKING
PLATFORM
ABOVE GROUND CUTTING OIL SUPPLY TANK
CUTTING OIL SUPPLY LINE
HEATING OIL UST
OFFICE BUILDING
CUTTING OIL HOLDING TANK
OIL/WATER SEPARATOR
ABOVE GROUND GASOLINE TANK
LABORATORY
ENGINEERING
STEAM CLEAN AREA
SHOPS
PUMP ROOM
REPAIR SHOP
PARTS WAREHOUSE
MACHINE SHOP
MACHINE SHOP (LATHES)
ELECTRICAL SHOP
TOOL AND DIE
QUENCH TANKS
HEAT TREAT AREA
UNDERGROUND PUMP VAULT
PUMP ROOM
SHIPPING AREA
LOCKER ROOM
OFFICES
OIL STOR.
NORTH BANK OF 10 TANKS
PAINT STOR.
TOOL ROOM
CARPENTRY/ AUTO SHOP
USED OIL STORAGE
HYDRAULIC OIL TANK
AREA 2 (HYDRAULIC OIL IN SOIL AND GROUNDWATER)
OIL/WATER SEPARATOR
FORMER GASOLINE UST AREA
GUARD SHACK
MAIN GATE
PARKING
SOUTH BANK OF 8 TANKS
PROPANE TANK
ALUMINUM HEAT TREAT BUILDING
TRUCK SCALE
ELECTRICAL STATION
PARKING
ALUMINUM RING STORAGE
ROOF BRICK-UP
MELT SHOP STORAGE
LADLE STORAGE
MELT FURNACE
AOD VESSEL
MOLDS
MOLDS
TEST BURN AREA
2000 TON PRESS
FORGE AREA
3000 TON PRESS
1000 TON PRESS
860 TON PRESS
FORGE FURNACES
LIME ROCK STORAGE
SCRAP PROCESSING
SCRAP STORAGE BINS
BURN PREP AREA
SLAG/SWARF CHIP STORAGE
FORMER BILLET STORAGE
UPSETTER MACHINE
FURNACES
CUTTING OIL STORAGE
RING EXPANDER
RING MILL
OFFICES
JORGENSEN PROPERTY LINE (APPROX.)
LEGEND
009— OUTFALL
CLOSED TANK (IN-PLACE)
FORMER UNDERGROUND QUENCH TANK
PIPE TRENCH
IDENTIFIED AREA OF CONCERN
MW5 ◆ MONITORING WELL
DM-B3 ◆ SOIL BORING
HA2 ◆ HAND AUGER
JS-HA-2 • HAND AUGER
N
0 120 240
SCALE (FEET)
SOURCE: Earle M. Jorgensen Company, 1/18/82
Aerial Photograph, 1/5/91
SEACOR
DWN CC
APPR
DATE 2-11-93
JOB#
00075-016-01
FIGURE 2
FACILITY PLAN
FORGE FACILITY
SEATTLE, WASHINGTON
DISK 0064 FILE JOR1606A


RAILROAD TRACKS
PLATFORM
ABOVE GROUND CUTTING OIL SUPPLY TANK
CUTTING OIL SUPPLY LINE
HEATING OIL UST
OFFICE BUILDING
CUTTING OIL HOLDING TANK
PARKING
JS-BG-1
MW24
C
B
MW23
DM-B2
DM-B3
OB3
MW19
HA2
JSA-HA-1
HA1B
HA3
OB6
A
MW25
MW1
HA1A
MW21
JSA-HA-2
B3
B4
B6
B7
DM-B5
OB2
MW20
DM-B4
OB4
OB5
A'
NILES LATHE
NILES PUMP
NILES LATHE
RHEINSTAHL-WAGNER LATHE
NILES LATHE
IB1
MW17
RHEINSTAHL-WAGNER PUMP ROOM
IB2
IB3
SHEET PILE
SHIPPING AREA
PARKING
MW18
MW22
MW16
C'
B'
REPAIR SHOP
LOCKER ROOM
OIL STOR.
PAINT STORAGE
PARTS WAREHOUSE
MACHINE SHOP
MACHINE SHOP (LATHES)
TOOL ROOM
CARPENTRY/ AUTO SHOP
N
LEGEND
MW25 SEACOR MONITORING WELL
DM-B5 DAMES & MOORE SOIL BORING
OB2 SEACOR EXTERIOR SOIL BORING
HA3 SEACOR HAND AUGER BORINGS
JSA-HA-1 SEACOR HAND AUGER BORINGS
IB3 SEACOR INTERIOR SOIL BORING
A A' CROSS SECTION TRACE
0 60 120
SCALE (FEET)
SEACOR
DWN CC
APPR
DATE 2-10-93
JOB# 00075-018-01
FIGURE 3
SITE PLAN
FORGE FACILITY AREA 1
SEATTLE, WASHINGTON
DISK 0062 FILE JOR1606B

DRAFT

TABLE 1
PREVIOUS ANALYTICAL RESULTS
Forge Facility Area 1

Well/Boring I.D.	Matrix	Date Sampled	Depth (feet)	TRPH (mg/kg, mg/L)	TPH (mg/kg)	BTEX (mg/kg)	ICP Metals Analyses Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)	Comments
B-2 D & M	Soil	02/28/90	11	(6)	NT	NT	NT	NT	NT	NT	No Odors
B-3 D & M	Soil	02/28/90	11	(6)	NT	NT	NT	NT	NT	NT	No Odors
B-4 D & M	Soil	02/28/90	11	4,100	NT	NT	NT	NT	NT	NT	Oil-Saturated Cuttings @ 10 ft.
B-5 D & M	Soil	02/28/90	8	13,000	NT	NT	NT	NT	NT	NT	Oil-Saturated Cuttings @ 6.5 ft.
B-3 SEACOR	Soil	12/12/90	7.5	77,000	3.5	(0.10)	NT	NT	NT	NT	No Odor
B-3 SEACOR	Soil	12/12/90	10	NT	(1.0)	(0.10)	NT	NT	NT	NT	Organic Odor (Sweet) @ 9.0 to 11.0 ft.
B-4 SEACOR	Soil	12/12/90	10	15	(1.0)	(0.10)	NT	NT	NT	NT	No Odors
B-5 SEACOR	Soil	12/12/90	5	NT	(1.0)	(0.10)	NT	NT	NT	NT	Refusal @ 5.0 ft. (Concrete), No Odors
HA-1A	Soil	1/24/91	8.5	NT	NT	NT	NT	NT	NT	NT	Petroleum Odor @ 7.0 ft.
HA-1B SEACOR	Soil	01/24/91	7.2	14	NT	NT	NT	NT	NT	NT	No Odors
HA-2 SEACOR	Soil	01/24/91	9.5	39,000	NT	NT	NT	NT	NT	NT	Organic Odor @ 6 ft., Petroleum Odor @ 9.5 ft.
HA-3 SEACOR	Soil	01/24/91	10.3	11,000	NT	NT	NT	NT	NT	NT	Petroleum Odor @ 5.8 to 10.5. ft. Sheen on Groundwater
HA-5	Soil	2/13/91	9.5	(5.0)	NT	NT	NT	NT	NT	NT	No Odors
HA-6	Soil	2/13/91	8.0	(5.0)	NT	NT	NT	NT	NT	NT	No Odors
JS-HA-1 SEACOR	Soil	03/06/92	7.5	NT	NT	NT	7	5	6	20	Petroleum Odor and Oily Cuttings @ 7.5 ft.
MW-1 SEACOR	GW	02/13/91	–	(1.0)	NT	NT	NT	NT	NT	NT	Moderate Odor @ 6 ft.

NOTES: TCP Metal Analyses EPA Method 6010 included: Arsenic (less than 20 ppm), Cadmium (less than 1 ppm), and Lead (less than 10 ppm).
TRPH = Total Recoverable Petroleum Hydrocarbons by EPA Method 418.1
TPH = Total Petroleum Hydrocarbons by EPA Method 8015
BTEX = benzene, toluene, ethylbenzene and xylenes by EPA Method 8020
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
D & M = Dames & Moore
( ) = constituent not detected above the enclosed analytical detection limit. For multiple analytes, the single highest detection limit is listed.
NT = constituent not analyzed
GW = groundwater
– = not applicable
Samples analyzed by North Creek Analytical of Bothell, Washington and Laucks Testing Laboratories, Inc.

DRAFT

TABLE 2
SOIL ANALYTICAL RESULTS
Forge Facility Area 1

Well/Boring I.D.	Date Sampled	Depth (feet)	TRPH (mg/kg)	Kerosene (mg/kg)	VOCs (mg/kg)	PCBs (mg/kg)	PID (units)	Comments
MW-16	08/29/92	1.5-2	(10)	NT	NT	NT	15.0	Petroleum Odor @ 9.5 ft.
		5.5-6	(10)	NT	NT	NT	0 to 5.8	Kerosene Present in LNAPL @ 7%
		8.5-9	**5,200**	480	NT	NT	38.4	
		9-9.5	NT	NT	NT	(0.050)	33.4 to 38.4	
		10.5-11	NT	NT	(0.50)	NT	0 @ 11.5 ft.	
MW-17	08/29/92	1.5-2	**400**	NT	NT	NT	17.1	Met Refusal @ 2.5 ft. (Pipe)
MW-18	08/29/92	1-1.5	(10)	NT	NT	NT	0	Located South of Sheet Pile
		5.5-6	(10)	NT	NT	NT	0	Inside Building
		10-10.5	(10)	NT	NT	NT	0	
MW-19	08/28/92	1-1.5	41	NT	NT	NT	2.3 @ 2 ft.	Petroleum Odor @ 8.0 ft.
		7.5-8	44	NT	NT	NT	6.0	and 12.0 ft. Oil @ 15.0 ft.
		9-9.5	**1,600**	NT	NT	(0.050)	0 @ 10 ft.	
MW-20	08/28/92	1.5-2	(10)	NT	NT	NT	0	Oil Coats Sampler @ 7.5 ft. Petroleum
		6-6.5	(10)	NT	NT	(0.050)	0	Odor @ 7 to 10 ft.
		10-10.5	**15,000**	NT	NT	NT	3.2	
MW-21	08/28/92	1.5-2	**710**	NT	NT	NT	0.2	No Odors Observed
		5.5-6	**400**	NT	NT	NT	0	
		9.5-10	76	NT	NT	NT	0.8	
MW-22	08/28/92	2-2.5	(10)	NT	NT	NT	0	No Odors Observed
		5-5.5	(10)	NT	NT	NT	0	
		9.5-10	(10)	NT	NT	NT	0	
MW-23	08/31/92	2-2.5	(10)	NT	NT	NT	0	No Odors Observed
		5-5.5	(10)	NT	NT	NT	0	
		9-9.5	(10)	NT	NT	NT	0	
MW-24	09/14/92	3.5-4	(10)	NT	(0.50)	NT	>2,500	No Odors Observed
		8.5-9	(10)	NT	(0.50)	NT	>2,500	Source of PID Readings
		10.5-11.0	12	NT	NT	NT	160 to 1,200	Unknown
MTCA Cleanup Standards			200.0 method A		57.0 method C	17.0 method C		

NOTES: TRPH = Total Recoverable Petroleum Hydrocarbons by Washington State Method WTPH-418.1
VOCs = Volatile Organic Compounds by EPA Method 8240/8260
PCBs = Polychlorinated Biphenyls by EPA Method 8080
Photoionization detector measurements in ppm equivalent units as calibrated to an isobutylene standard.
mg/kg = milligrams per kilogram
( ) = constituent not detected above the enclosed analytical detection limit. For multiple analytes, the single highest detection limit is listed.
NT = constituent not analyzed
Bold number indicates the result was above the cleanup standards
Model Toxics Control Act (MTCA) cleanup standards for industrial soil based on WAC 173-340-745; lowest VOC cleanup level reported.

Samples analyzed by North Creek Analytical of Bothell, Washington and OMS Laboratories, Inc. of Seattle, Washington.

DRAFT

TABLE 2
SOIL ANALYTICAL RESULTS
Forge Facility Area 1

Well/Boring I.D.	Date Sampled	Depth (feet)	TRPH (mg/kg)	Kerosene (mg/kg)	VOCs (mg/kg)	PCBs (mg/kg)	PID (units)	Comments
MW-25	09/14/92	3.5-4	(10)	NT	(0.50)	NT	>2,500	No Odors Observed
		8-8.5	10	NT	(0.50)	NT	1,000	Source of PID Readings
		11-11.5	(10)	NT	NT	NT	0	Unknown
OB-2	08/28/92	2-2.5	(10)	NT	NT	NT	0 to 0.6	Oil Observed in Cuttings
		5-5.5	**120,000**	NT	NT	NT	0.2 to 11.0	@ 6.0 ft. Oil Coats Similar
		9-9.5	**110,000**	NT	NT	NT	NT	7 to 9 ft.
OB-3	08/31/92	2-2.5	**1,000**	NT	NT	NT	0.1	No Odors
		5-5.5	(10)	NT	NT	NT	0	
		8-8.5	(10)	NT	NT	NT	0	
OB-4	08/31/92	2-2.5	200	NT	NT	NT	0	Petroleum Odor @ 5.0
		5-5.5	**16,000**	NT	NT	NT	5.0	to 10.0 ft. Oil saturated
		9-9.5	**46,000**	1,600	NT	NT	5.6	Cuttings @ 10.0 ft.
OB-5	08/31/92	2-2.5	(10)	NT	NT	NT	0	Oil saturated Cuttings @ 9.5 ft.
		5-5.5	14	NT	NT	NT	5.0	
		9.5-10	**19,000**	87	NT	NT	2.9 to 5.6	
OB-6	08/31/92	2-2.5	(10)	NT	NT	NT	0	No Odors
		5-5.5	18	NT	NT	NT	0	
		9.5-10	(10)	NT	NT	NT	0	
IB-1	08/29/92	1.5-2.0	**6,100**	NT	NT	NT	11.9	Petroleum Odor @ 1.0 ft. Refusal @ 2.5 ft. (Pipe)
				22				
IB-2	08/29/92	4.5-5	**15,000**	120	NT	NT	4.6	11.4 to 15.9 Unit PID Readings
		9-9.5	**33,000**		NT	NT	9.4	@ 1.5 to 2.5 ft., No Odors
				NT				
IB-3	08/29/92	1.5-2	**49,000**	NT	NT	NT	225.0	Petroleum Odor @ 1.0 to 4.0 ft.
		5.5-6	(10)	660	NT	NT	29.6	Kerosene Likely Present
		9-9.5	**12,000**		NT	NT	1.6	
MTCA Cleanup Standards			200.0 method A		57.0 method C	17.0 method C		

NOTES: TRPH = Total Recoverable Petroleum Hydrocarbons by Washington State Method WTPH-418.1
VOCs = Volatile Organic Compounds by EPA Method 8240/8260
PCBs = Polychlorinated Biphenyls by EPA Method 8080
Photoionization detector measurements in ppm equivalent units as calibrated to an isobutylene standard.
mg/kg = milligrams per kilogram
() = constituent not detected above the enclosed analytical detection limit. For multiple analytes, the single highest detection limit is listed.
NT = constituent not analyzed
Bold number indicates the result was above the cleanup standards
Model Toxics Control Act (MTCA) cleanup standards for industrial soil based on WAC 173-340-745; lowest VOC cleanup level reported.

Samples analyzed by North Creek Analytical of Bothell, Washington and

SEACOR
Science & Engineering Analysis Corporation

DRAFT
AREA 2 RI/FS REPORT

DRAFT
AREA 2 - OIL-WATER SEPARATOR AREA
FOCUSED REMEDIAL INVESTIGATION/ FEASIBILITY STUDY
FORGE FACILITY
8531 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

SEACOR Job No. 00075-015-01

Submitted by
SEACOR

For
Earle M. Jorgensen Company
3050 East Birch Street
Brea, CA 92621

April 7, 1993

Prepared by:

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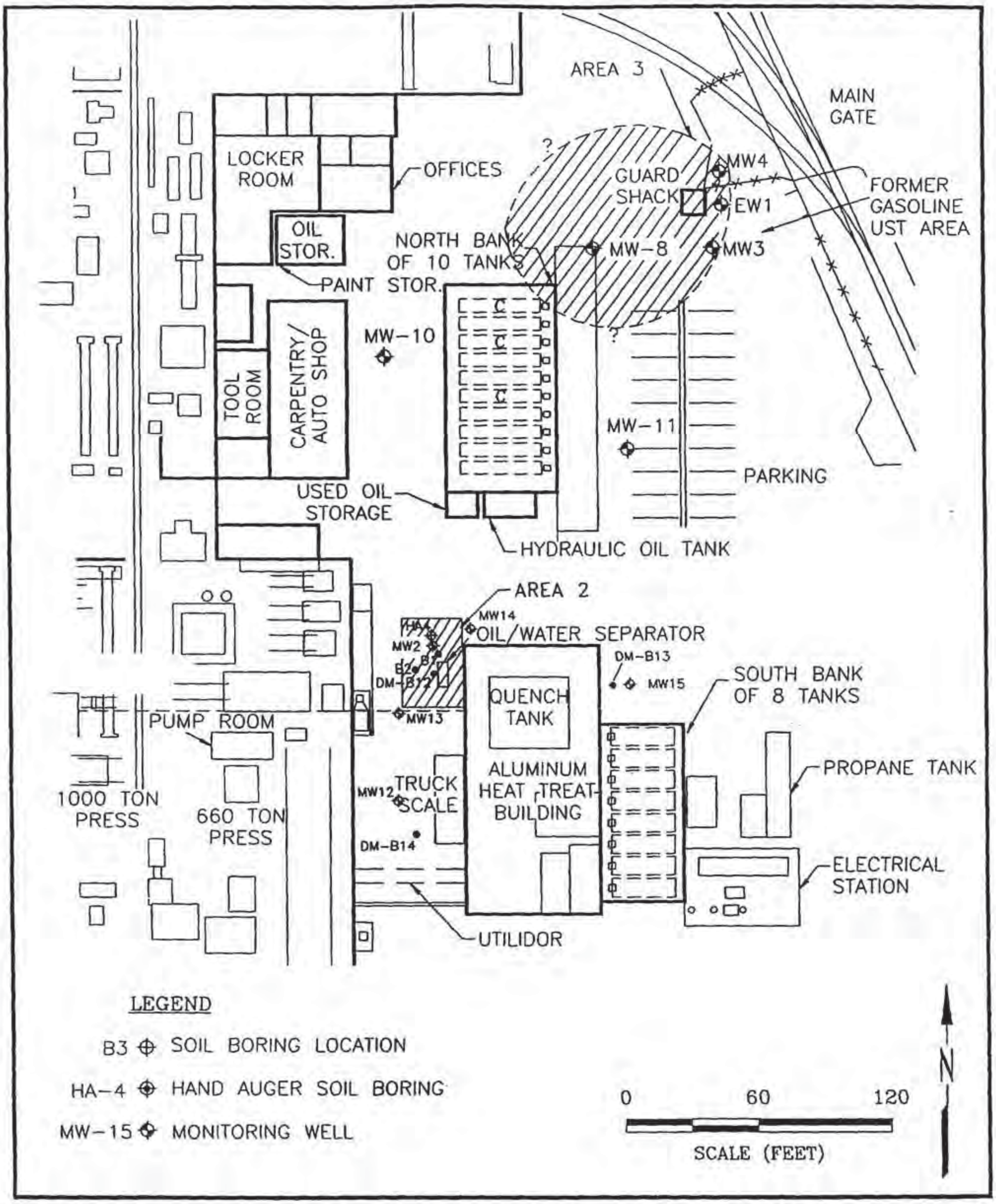
Associate Scientist

Reviewed by:

Bert Hyde, R.P.G.
Senior Project Manager

Dan Martin
Hydrogeologist

JR4001.RPT/1
04/07/93



SEACOR	DWN CC APPR DATE 2-11-93 JOB# 00075-015-01	FIGURE 3 SITE PLAN FORGE FACILITY AREA 2 SEATTLE, WASHINGTON

DISK:0060 DWG:JOR1502A

TABLE 1
SUMMARY OF SOIL SAMPLES ANALYSES
Forge Facility Area 2
Seattle, Washington

Parameter	Units	Sample Location	B-12	B-13	B-14	B-1	B-1	B-2	B-2	HA-4	MW-12	MW-12	MW-13	MW-13	MW-14	MW-14	MW-15	MW-15
		Consultant	D&M[1]	D&M	D&M	SEACOR	SEACOR	SEACOR	SEACOR	SEACOR	SEACOR	SEACOR	SEACOR	SEACOR	SEACOR	SEACOR	SEACOR	SEACOR
		Date	3/90	3/90	3/90	12/90	12/90	12/90	12/90	12/90	8/92	8/92	8/92	8/92	8/92	8/92	8/92	8/92
		Depth (ft)	13.5	13.5	10.5	7.0-8.5	10.0	5.0	10.0	9.2	6-6.5	9-9.5	6-6.5	9-9.5	6-6.5	9-9.5	6-6.5	9-9.5
Arsenic	mg/kg		4	NT[2]	NT	NT	NT	NT	NT	NT	NT	NT	(10)[3]	NT	NT	NT	NT	NT
Barium	mg/kg		30.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	mg/kg		1.3	NT	NT	NT	NT	NT	NT	NT	NT	NT	(0.5)	NT	NT	NT	NT	NT
Chromium	mg/kg		8.85	NT	NT	NT	NT	NT	NT	NT	NT	NT	9.7	NT	NT	NT	NT	NT
TRPH (418.1)	mg/kg		870	(6)	(6)	31,000	NT	NT	26	29	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
TRPH (8015)	mg/kg		NT	NT	NT	3.5	(1)	(1)	(1)	NT	NT	NT	NT	NT	NT	NT	NT	NT
BTEX[4]	mg/kg		NT	NT	NT	(0.1)	(0.1)	(0.1)	(0.1)	NT	NT	NT	NT	NT	NT	NT	NT	NT
VOCs[5]	mg/kg		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	(0.5)	NT	NT	NT	NT	NT
PCBs[6]	mg/kg		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	(0.5)	NT	NT	NT	NT	NT

NOTES:

All Dames & Moore samples analyzed by Acculab Environmental Services of Petaluma, California.
All SEACOR samples analyzed by North Creek Analytical of Bothell, Washington.
Only the metallic analytes that were detected in at least one sample are shown.

1 D&M = Dames & Moore
2 NT = Not Tested.
3 ( ) = Not detected at enclosed detection limit. For multiple analytes the single highest detection limit is shown.
4 BTEX = Benzene, Toluene, Ethyl Benzene, Xylenes (by EPA Method 8020).
5 VOCs = Volatile Organic Compounds (by EPA Method 8240).
6 PCBs = Polychlorinated Biphenyls (by EPA Method 8080).

JR400I.RPT

JR400I.RPT/4
02/10/93

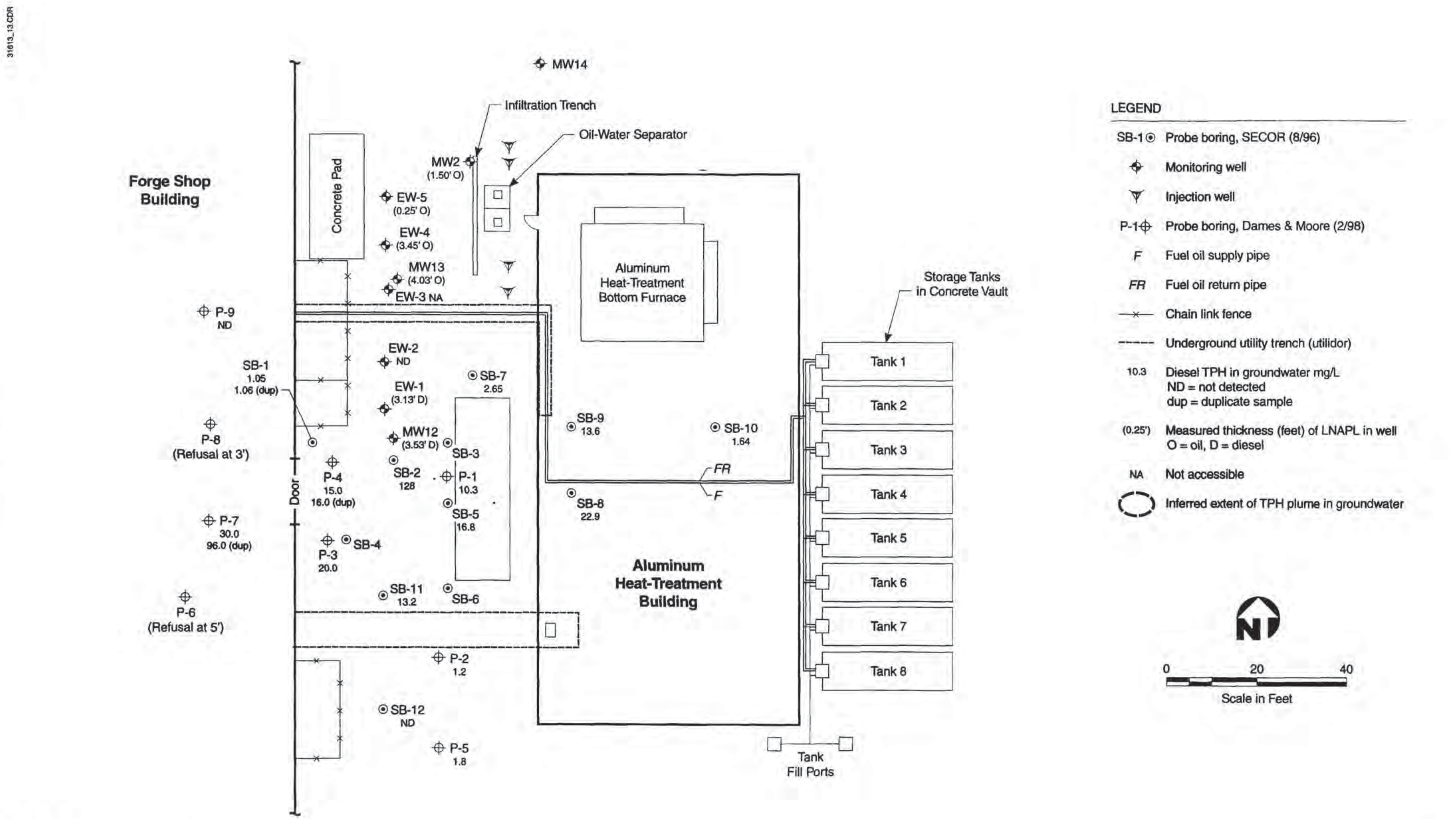
DAMES & MOORE

A DAMES & MOORE GROUP COMPANY

DRAFT REPORT
SUBSURFACE INVESTIGATION
ALUMINUM HEAT TREATING BUILDING AREA
JORGENSEN FORGE FACILITY
SEATTLE, WASHINGTON

For

JORGENSEN FORGE CORP.
D&M JOB NO.: 31613-011-005
February 22, 1999



DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

Job No. 31613-011-005

Figure 5
GROUNDWATER ANALYSIS RESULTS

Jorgensen Forge Facility
Seattle, Washington

Table 1

BTEX data for water, product and soil samples submitted bv SECOR

Sample ID	GGC ID	Benzene	Toluene	Ethyl-benzene	Total Xvienes	Total BTEX
Method Blank:		<5	<5	<5	<5	-
Waters						
SB-2	3583-2	101	179	168	530	1278
SB-5	3583-3	59	83	25	464	631
SB-9	3583-6	37	37	76	392	542
MW-2	3583-10	<25	<25	<25	<25	-
MW-12	3583-11	33	79	24	166	302
MW-13	3583-12	<5	<5	<5	<5	-
EW-1	3583-13	<12.5	<12.5	30	54	84
Products						
EW-1	3583-14	<125	<125	146	760	906
T-7	3583-15	<125	213	182	1370	1765
T-8	3583-16	<125	246	193	1630	2069
MW-2	3583-17	<125	<125	<125	<125	-
MW-13	3583-18	<125	<125	<125	<125	-
MW-12	3583-19	<125	150	196	1110	1456
O/W SEPARATOR	3583-20	<125	<125	<125	<125	-
PRESS	3583-21	<125	<125	<125	<125	-
SB-3	3583-22	<125	<125	194	1220	1414
SB-5	3583-23	<125	<125	177	1110	1287
SB-2	3583-24	<125	<125	208	1480	1688
SB-2	3583-24D	<125	<125	212	1420	1632
Soils						
SB-1 3'	3583-25	<5	<5	<5	<5	-
SB-1 9'	3583-28	<62.5	194	2130	10200	12524
SB-1 10.5'	3583-29	<5	<5	<5	<5	-
SB-2 3'	3583-30	<5	<5	<5	<5	-
SB-2 7.5'	3583-32	<62.5	<62.5	140	1490	1630
SB-2 9'	3583-33	<250	1340	2030	9450	12820
SB-3 3'	3583-34	<5	<5	<5	<5	-
SB-3 9'	3583-37	<5	<5	<5	<5	-
SB-3 10.5'	3583-38	<62.5	<62.5	608	3220	3828
SB-4 4.0'	3583-39	<5	<5	<5	<5	-
SB-4 8.5'	3583-42	289	3320	2490	18700	24799
SB-4 10'	3583-43	<62.5	<62.5	<62.5	184	184

Table 1 (cont)

BTEX data for water, product and soil samples submitted by SECOR

Sample ID	GGC ID	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX
SB-5 3.5'	3583-44	<5	<5	<5	<5	-
SB-5 7'	3583-46	<5	<5	<5	<5	-
SB-5 8.5'	3583-47	<50	<50	258	1070	1323
SB-6 4'	3583-48	<5	<5	<5	<5	-
SB-6 8.5'	3583-51	<50	433	740	4560	5733
SB-7 3'	3583-52	<5	<5	<5	<5	-
SB-7 7'	3583-54	<5	<5	<5	<5	-
SB-7 8.5'	3583-55	<25	<25	170	580	750
SB-8 3'	3583-56	<5	<5	<5	<5	-
SB-8 7.5'	3583-58	<1000	3130	6220	34200	44550
SB-8 9'	3583-59	<25	<25	<25	144	144
SB-9 3'	3583-60	<5	<5	<5	<5	5
SB-9 8'	3583-62	<250	1010	3110	20800	24920
SB-9 9.5'	3583-63	<250	3280	3780	22100	29160
SB-10 3'	3583-64	<5	<5	<5	<5	-
SB-10 9.5'	3583-67	<5	<5	<5	<5	-
SB-10 11'	3583-68	<5	<5	<5	<5	-
SB-11 2.5'	3583-69	<5	<5	<5	<5	-
SB-11 7'	3583-71	<5	<5	<5	21	21
SB-11 8.5'	3583-72	<5	<5	<5	20	20
SB-12 1'	3583-74	<5	<5	<5	<5	-
SB-12 8.5'	3583-77	<5	<5	<5	<5	-

D: Duplicate Analysis

Table 2

TPH analysis data for samples submitted by SECOR

Sample ID	GGCID	TPH Diesel	TPH Hydraulic Fluid
Waters		ppb	
Method Blank, 8-14-96		<50	<400
Method Blank, 8-16-96		<50	<400
Method Blank, 8-19-96		<50	<400
SB-1	3583-1	1050	<500
SB-1	3583-1D	1060	<500
SB-2	3583-2	128000	<8700
SB-5	3583-3	16800	<1000
SB-7	3583-4	2650	<800
SB-8	3583-5	22900	<1000
SB-9	3583-6	13600	<1000
SB-10	3583-7	1640	<400
SB-11	3583-8	13200	<1000
SB-12	3583-9	<50	<500
MW-2	3583-10	<300	21100
MW-12	3583-11	48000	<4000
MW-13	3583-12	<100	12700
EW-1	3583-13	13200	<1000
Soils		ppm	
Method Blank, 8-19-96		<5	<30
Method Blank, 8-20-96		<5	<30
SB-1 3'	3583-25	11	61
SB-1 9'	3583-28	32400	<3000
SB-1 10.5'	3583-29	122	78
SB-2 3'	3583-30	<5	46
SB-2 7.5'	3583-32	13400	<750
SB-2 9'	3583-33	77500	<5000
SB-3 3'	3583-34	<10	125
SB-3 9'	3583-37	300	92
SB-3 10.5'	3583-38	6700	<700
SB-4 4.0'	3583-39	75	57
SB-4 8.5'	3583-42	67000	<5500

D = Duplicate

Table 2 (cont)

TPH analysis data for samples submitted by SECOR

Sample ID	GGCID	TPH Diesel	TPH Hydraulic Fluid
SB-4 10'	3583-43	968	<100
SB-5 3.5'	3583-44	63	<50
SB-5 7'	3583-46	954	<450
SB-5 8.5'	3583-47	15700	<1500
SB-6 4'	3583-48	<35	662
SB-6 4'	3583-48D	<35	723
SB-6 8.5'	3583-51	17400	<1500
SB-7 3'	3583-52	<10	<60
SB-7 7'	3583-54	95	<60
SB-7 8.5'	3583-55	7180	<500
SB-8 3'	3583-56	16	33
SB-8 7.5'	3583-58	43500	<3300
SB-8 9'	3583-59	283	<60
SB-9 3'	3583-60	4800	<400
SB-9 8'	3583-62	46200	<3400
SB-9 9.5'	3583-63	47100	<3100
SB-10 3'	3583-64	11	188
SB-10 9.5'	3583-67	<100	<600
SB-10 11'	3583-68	429	<80
SB-11 2.5'	3583-69	<10	<60
SB-11 7'	3583-71	5020	<900
SB-11 8.5'	3583-72	417	122
SB-12 7'	3583-76	<5	56
SB-12 8.5'	3583-77	<10	113

D = Duplicate

Table 1
Summary of Groundwater and LNAPL Thickness Measurements
Aluminum Heat Treating Shop Area
Jorgensen Forge Facility
Seattle, Washington

Well I.D.	Reference Elevation[1] (ft, MSL)	Depth to LNAPL[2] (ft, bgs)	Depth to Water (ft, bgs)	LNAPL[2] Thickness (ft)	Adjusted Depth to Water[3] (ft, bgs)	Groundwater Elevation (ft, MSL)	Apparent LNAPL Composition
EW-1	14.16	9.39	12.52	3.13	9.67	4.49	Diesel
EW-2	NA	ND	9.95	0	9.95	NA	ND
EW-3	NA	Not Accessible	Not Accessible	Not Accessible	Not Accessible	Not Accessible	Not Accessible
EW-4	NA	9.55	13	3.45	9.86	NA	Hydraulic Oil
EW-5	NA	10.00	10.25	0.25	10.02	NA	Hydraulic Oil
MW-2	14.11	10.45	11.95	1.50	10.59	3.53	Hydraulic Oil
MW-12	13.71	9.72	13.25	3.53	10.04	3.67	Diesel
MW-13	13.99	9.97	14.00	4.03	10.33	3.66	Hydraulic Oil

Notes:
Measurements made January 13, 1999
ft, bgs = Feet below ground surface
ft, MSL = Feet above Mean Sea Level
NA = Data not currently available
ND = LNAPL not detected
[1] Elevations obtained from currently available SECOR documents
[2] LNAPL = Light non-aqueous phase liquid = immiscible hydocarbon
[3] Adjusted Depth To Water = Measured depth to water - (0.91[typical diesel/oil density] x LNAPL thickness in well)

Table 2
Results of Laboratory Analysis for TPH in Soils
Aluminum Heat Treating Shop Area
Jorgensen Forge Facility
Seattle, Washington

Sample Number	Sample Interval Depth (ft)	Date	Diesel-Range Hydrocarbons (mg/kg)	Heavy-Oil-Range Hydrocarbons (mg/kg)
P-1-7	7-10	12/23/98	**6,400**	ND
P-1-7 DUP	7-10	12/23/98	**5,300**	ND
P-2-7	7-10	12/23/98	**530**	ND
P-3-7	7-10	12/23/98	**14,000**	ND
P-4-7	7-10	12/23/98	**15,000**	ND
P-7-7	7-10	12/23/98	34	ND
MTCA Method A Cleanup Levels			200	200
Proposed MTCA Method A Cleanup Levels [a]			2,000	2,000

Notes:
Bold = Value exceeds MTCA Method A soil cleanup levels
ND = Not detected at or above reporting limits
[a] = Proposed (12/98 Draft) changes to MTCA

Table 3
Results of Laboratory Analysis for TPH in Groundwater
Aluminum Heat Treating Shop Area
Jorgensen Forge Facility
Seattle, Washington

Sample Number	Sample Interval Depth (ft)	Date	Diesel-Range Hydrocarbons (mg/L)	Heavy-Oil-Range Hydrocarbons (mg/L)
P-1-W	7-10	12/23/98	**10.3**	ND
P-2-W	7-10	12/23/98	**1.2**	ND
P-3-W	7-10	12/23/98	**20.0**	ND
P-4-W	7-10	12/23/98	**15.0**	ND
P-4-W DUP	7-10	12/23/98	**16.0**	ND
P-5-W	7-10	12/23/98	**1.8**	ND
P-7-W	8-11	12/23/98	**30.0**	ND
P-W-DUP*	8-11	12/23/98	**96.0**	ND
P-9-W	8-11	12/23/98	ND	ND
EW-2	NA	1/13/99	ND	ND
MTCA Method A Cleanup Levels[a]			1.0	1.0
Proposed MTCA Method A Cleanup Levels[a,b]			0.7	0.7

Notes:
Bold = Value exceeds MTCA Method A soil cleanup Levels
ND = Not detected at or above reporting limits
* = Duplicate sample collected from boring P-7
[a] = Drinking water cleanup level
[b] = Proposed (12/98 Draft) changes to MTCA

8,000 gallon UST

SEACOR

UNDERGROUND STORAGE TANK REMOVAL INVESTIGATION EARLE M. JORGENSEN COMPANY 8531 EAST MARGINAL WAY SOUTH SEATTLE, WASHINGTON

SEACOR Project No. 00075-004-01

Submitted by
SEACOR

for
Earle M. Jorgensen Company

April 30, 1991

Prepared by:

Klaus Rohwer,
Geologist

Reviewed by:

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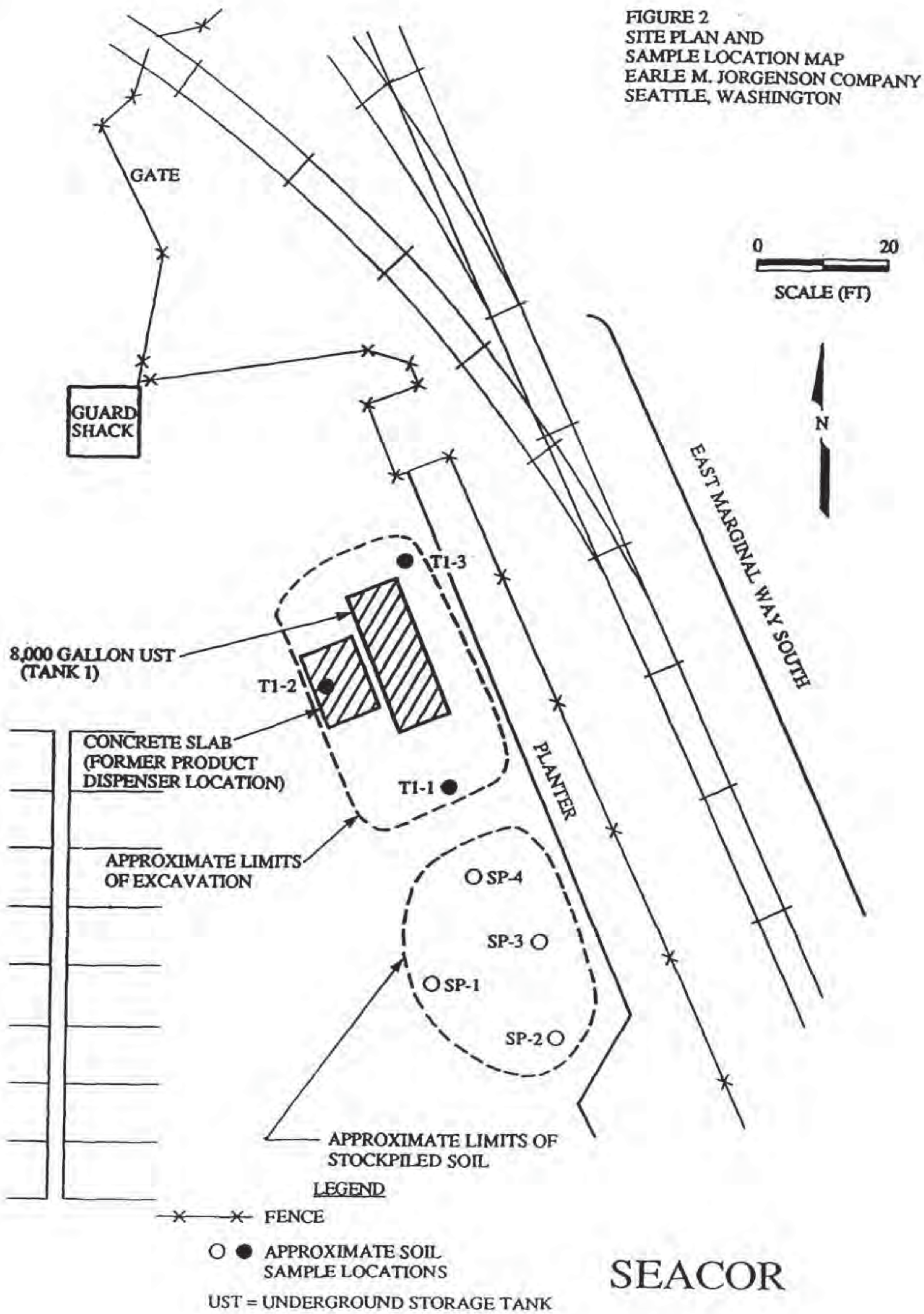
FIGURE 2
SITE PLAN AND
SAMPLE LOCATION MAP
EARLE M. JORGENSON COMPANY
SEATTLE, WASHINGTON
0
20
SCALE (FT)
N
GATE
GUARD SHACK
EAST MARGINAL WAY SOUTH
T1-3
8,000 GALLON UST (TANK 1)
T1-2
CONCRETE SLAB (FORMER PRODUCT DISPENSER LOCATION)
T1-1
PLANTER
APPROXIMATE LIMITS OF EXCAVATION
SP-4
SP-3
SP-1
SP-2
APPROXIMATE LIMITS OF STOCKPILED SOIL
LEGEND
FENCE
APPROXIMATE SOIL SAMPLE LOCATIONS
UST = UNDERGROUND STORAGE TANK
SEACOR

TABLE 2
ANALYTICAL LABORATORY RESULTS
(sample results in parts per million (ppm))

Sample Number[1]	TPH[2] (as gasoline)	Ethyl-Benzene	Toluene	Benzene	Xylene
T1-1	(1.0)[3]	(0.050)	(0.10)	(0.10)	(0.10)
T1-2	(1.0)	(0.050)	(0.10)	(0.10)	(0.10)
T1-3	2.2	(0.050)	(0.10)	(0.10)	(0.10)
Composite SP-1&SP-2	(1.0)	(0.050)	(0.10)	(0.10)	(0.10)
Composite SP-3&SP-4	(1.0)	(0.050)	(1.0)	(1.0)	(1.0)
MTCA Soil Cleanup Level[4]	100	0.5	40	20	20

Notes:

1 T1 = Tank 1 - a 8,000-gallon tank; SP = Stockpile.
2 TPH = Total petroleum hydrocarbons.
3 () indicates constituent not detected above the enclosed analytical detection limit.
4 Soil cleanup levels from the Model Toxics Control Act Regulation (MTCA) Washington Administration Code (WAC) Chapter 173-340, dated February 11, 1991.

1,000 & 2,000 gallon UST

SEACOR

UNDERGROUND STORAGE TANK REMOVAL INVESTIGATION EARLE M. JORGENSEN COMPANY 8531 EAST MARGINAL WAY SOUTH SEATTLE, WASHINGTON

SEACOR Project No. 00075-004-01

Submitted by
SEACOR

for
Earle M. Jorgensen Company

May 8, 1991

Prepared by:

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Bellevue, WA 98004
206.646.0280

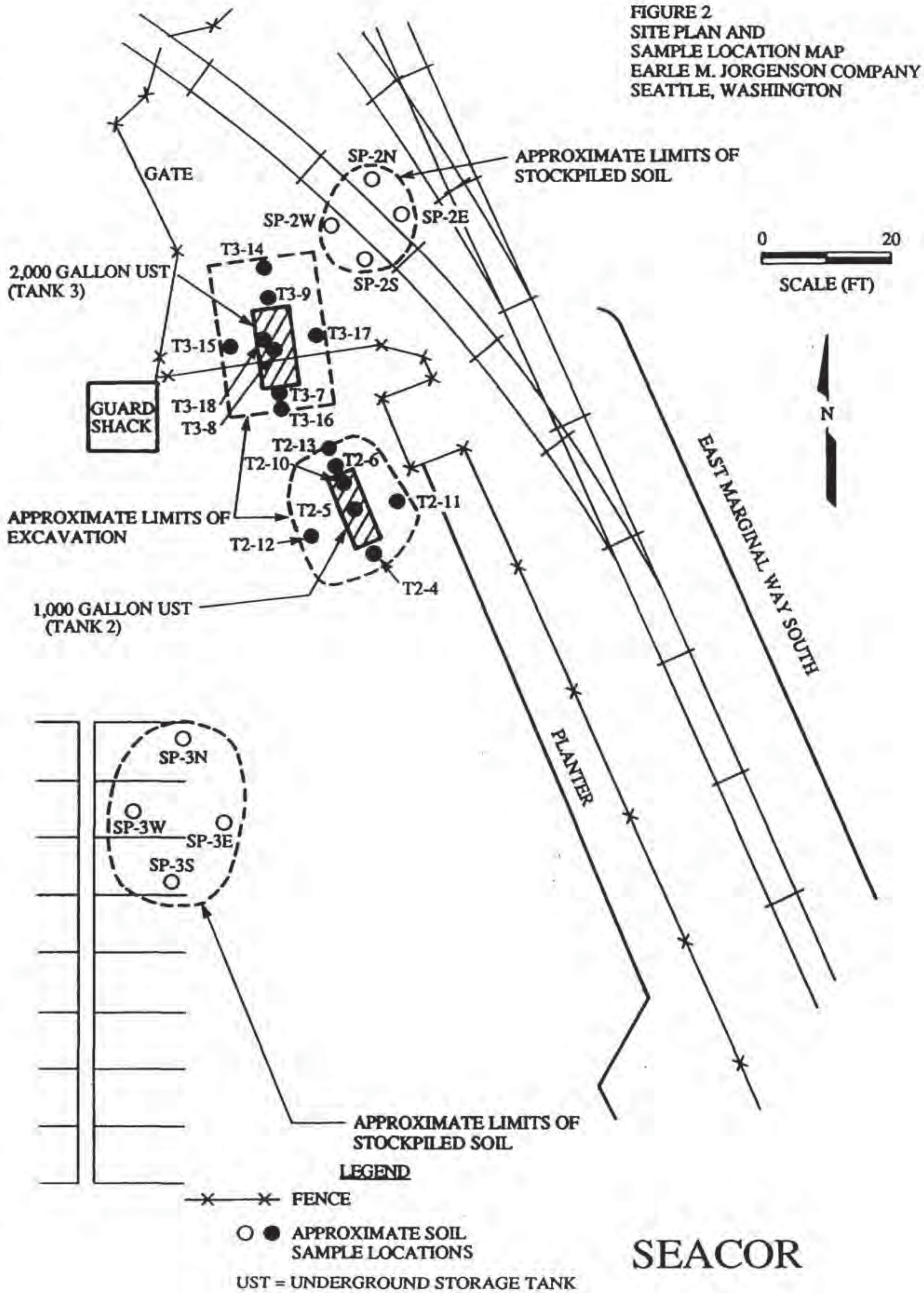


FIGURE 2
SITE PLAN AND
SAMPLE LOCATION MAP
EARLE M. JORGENSON COMPANY
SEATTLE, WASHINGTON
SP-2N
APPROXIMATE LIMITS OF
STOCKPILED SOIL
GATE
SP-2W
SP-2E
SP-2S
0
20
SCALE (FT)
T3-14
2,000 GALLON UST
(TANK 3)
T3-9
T3-17
T3-15
T3-7
T3-18
T3-8
T3-16
GUARD
SHACK
N
T2-13
T2-10
T2-6
T2-11
T2-5
APPROXIMATE LIMITS OF
EXCAVATION
T2-12
T2-4
1,000 GALLON UST
(TANK 2)
EAST MARGINAL WAY SOUTH
PLANTER
SP-3N
SP-3W
SP-3E
SP-3S
APPROXIMATE LIMITS OF
STOCKPILED SOIL
LEGEND
FENCE
APPROXIMATE SOIL
SAMPLE LOCATIONS
UST = UNDERGROUND STORAGE TANK
SEACOR

TABLE 2
ANALYTICAL LABORATORY RESULTS
(sample results in parts per million (ppm))

Sample Number[1]	Petroleum Oil	TPH[2] (as gasoline)	Benzene	Toluene	Ethyl-benzene	Xylene	Total Lead
T2-4	45	86	(0.050)[3]	(0.10)	1.2	8.0	NA[4]
T2-10	**960**[5]	**1,500**	(0.050)	12	10	**99**	9.7
T2-11	44	(1.0)	(0.050)	(0.10)	(0.10)	(0.10)	NA
T2-12	(5.0)	(1.0)	(0.50)	(0.10)	(0.10)	(0.10)	NA
T2-13	(5.0)	(1.0)	(0.50)	(0.10)	(0.10)	(0.0)	NA
T3-8	130	**180**	0.12	1.1	0.91	4.0	NA
T3-14	11	1.5	(0.050)	(0.10)	(0.10)	(0.10)	NA
T3-15	(5.0)	(1.0)	(0.050)	(0.10)	(0.10)	(0.10)	NA
T3-16	(5.0)	(1.0)	(0.050)	(0.12)	(0.10)	(0.11)	NA
T3-17	(5.0)	(1.0)	(0.050)	(0.10)	(0.10)	(0.10)	NA
Composite SP-2N,S,E,&W	26	44	(0.050)	(0.10)	(0.10)	(0.10)	NA
Composite SP-3N,S,E,&W	61	(1.0)	(0.050)	(1.0)	(0.10)	(0.10)	NA
MTCA Soil Cleanup Level[6]	200	100	0.5	40	20	20	250

Notes:
1 T2 = Tank 2 - a 1,000-gallon tank; T3 = Tank 3 - a 2,000-gallon tank; SP = Stockpile.
2 TPH = Total petroleum hydrocarbons.
3 ( ) indicates constituent not detected above the enclosed analytical detection limit.
4 NA = not applicable.
5 Bold type indicates sample concentration exceedsthe MTCA cleanup level.
6 Soil cleanup levels from the Model Toxics Control Act Regulation (MTCA) Washington Administration Code (WAC) Chapter 173-340, dated February 11, 1991.

SEACOR
Science & Engineering Analysis Corporation
DRAFT AREA 3 RI/FS REPORT

AREA 3 - FORMER UST AREA
FOCUSED REMEDIAL INVESTIGATION/ FEASIBILITY STUDY
FORGE FACILITY
8531 EAST MARGINAL WAY SOUTH SEATTLE, WASHINGTON

SEACOR Job No. 00075-013-01

Submitted by

SEACOR

For

Earle M. Jorgensen Company
3050 Birch Street
Brea, California 92621

April 1, 1993

Prepared by:

Lauren L. Gee
Project Hydrogeologist

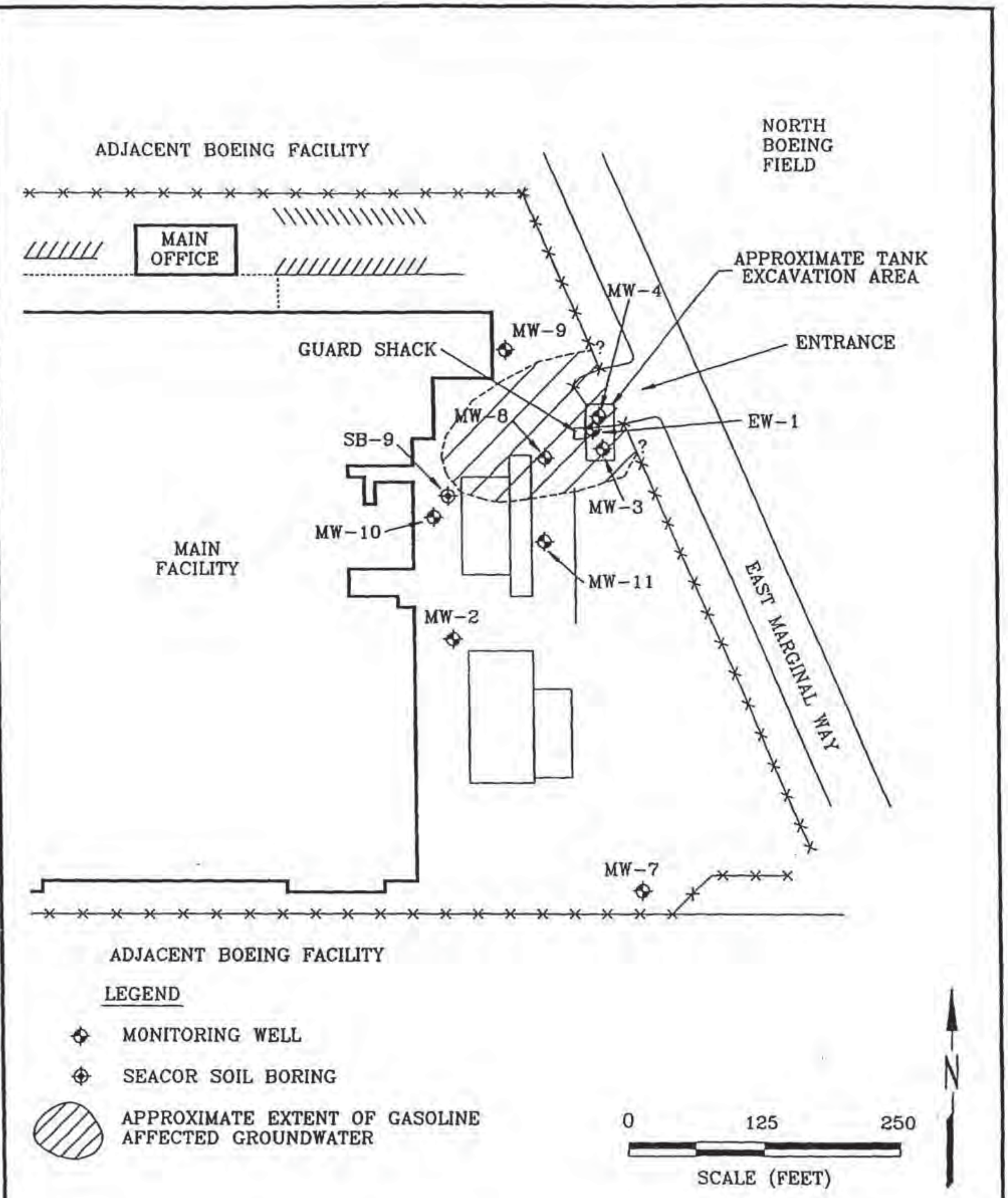
Reviewed by:

Daniel Martin
Senior Hydrogeologist

Bert Hyde, RPG
Senior Project Manager

JR5001.RPT/1
04/01/93

11040 Main Street, Suite 240, Bellevue, WA 98004 (206) 646-0280 Ph (206) 646-0283 Fax



SEACOR	DWN CC APPR DATE 2-11-93 JOB# 00075-013-01	FIGURE 5 ESTIMATE OF ON-SITE LATERAL EXTENT OF HYDROCARBON-AFFECTED GROUNDWATER FORGE FACILITY AREA 3 SEATTLE, WASHINGTON

DISK:0035 DWG:JOR13F3A

TABLE 1
GROUNDWATER AND SOIL ANALYTICAL RESULTS (SAMPLING MARCH 24, 1992)
Forge Facility Area 3
Seattle, Washington

	EPA Method 8020 µg/l[1]				Modified EPA Method 8015 (µg/l)[1]	EPA Method 418.1 (µg/l)[1]
Media/Well No.	Benzene	Toluene	Ethyl Benzene	Xylenes	TPH[2] (as gasoline)	Petroleum Oils
Groundwater						
MW-9	(0.5)[3]	(0.5)	(0.5)	(0.5)	(50)	1,800
MW-10	(0.5)	(0.5)	(0.5)	(0.5)	(50)	(1,000)
MW-11	0.65	0.66	(0.5)	1.2	71	1,600
EW-1[4]	570	4,200	840	4,500	30,000	29,000
Soil						
MW-10 (7.0' to 8.5')	NA[5]	NA	NA	NA	NA	34 (mg/kg)[6]

NOTES:

1 µg/l is equivalent to parts per billion (ppb).
2 TPH = total petroleum hydrocarbons.
3 ( ) indicates constituent not detected at a concentration above the enclosed method detection limit.
4 EW-1 is the same as EX-1 shown in the laboratory report.
5 NA = Not Analyzed.
6 mg/kg is equivalent to ppm.

JR5001.RPT/3
02/12/93

SEACOR
Science & Engineering Analysis Corporation

AREA 4 DRAFT
SUBSURFACE SOIL ASSESSMENT

AREA 4-VICINITY OF BORING SB-9
SUBSURFACE SOIL ASSESSMENT
FORGE FACILITY
8531 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

SEACOR Job No. 00075-016-01

Prepared by
SEACOR

For
Earle M. Jorgensen Company
3050 East Birch Street
Brea, CA 92621

February 18, 1993

Prepared by:

Susan Postlethwaite
Staff Geologist

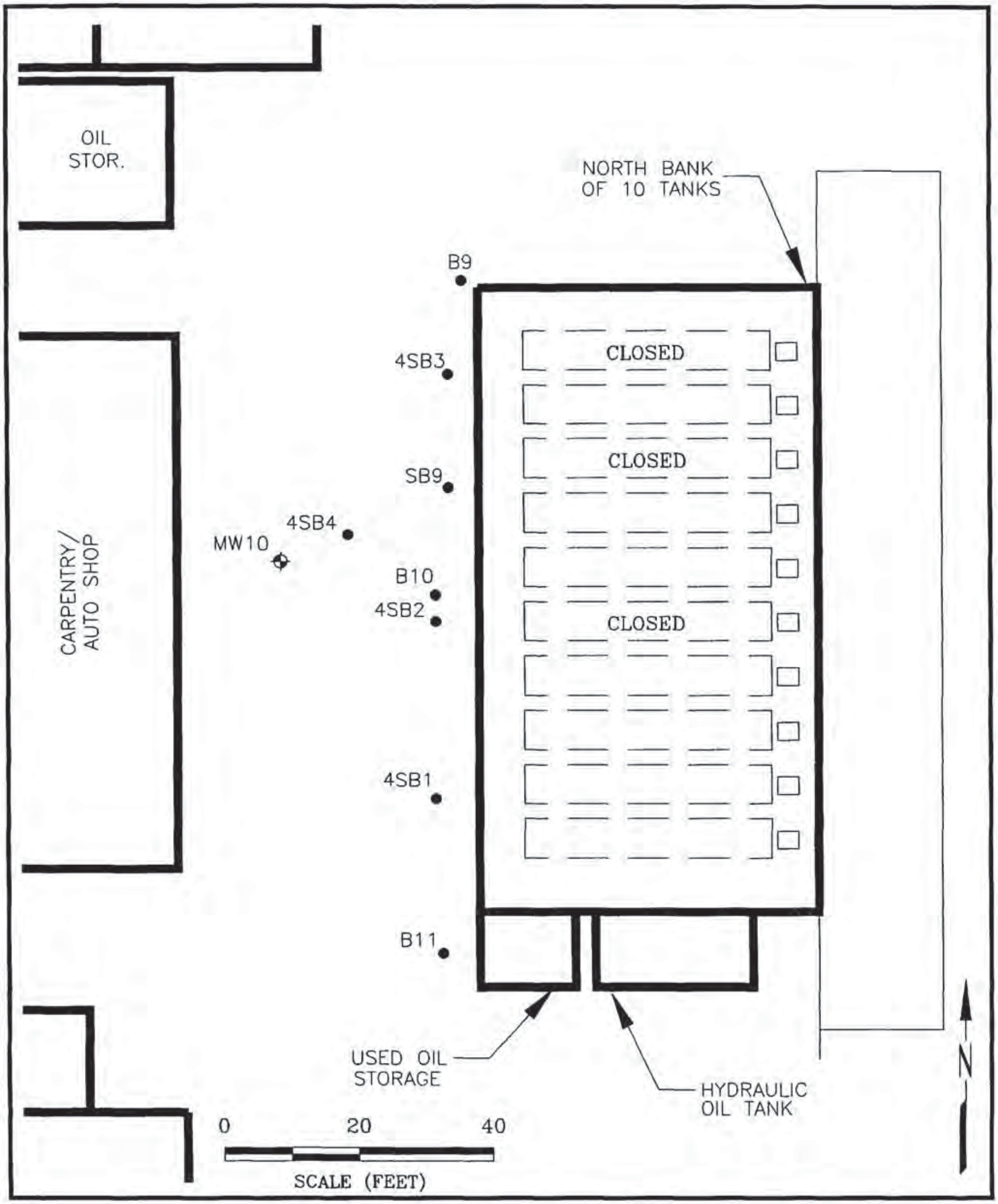
Reviewed by:

Sue Robinson
Senior Scientists

Bert Hyde
Senior Project Manager

JR4006.RPT/1
02/18/93

11040 Main Street, Suite 240, Bellevue, WA 98004 (206) 646-0280 Ph (206) 646-0283 Fax



SEACOR	DWN CC APPR DATE 2-11-93 JOB# 00075-016-01	FIGURE 3 SITE PLAN FORGE FACILITY AREA 4 SEATTLE, WASHINGTON

DISK:0062 DWG:JOR1607A

TABLE 1
HISTORICAL SOIL AND GROUNDWATER ANALYTICAL RESULTS AREA 4, FORGE FACILITY (IN PARTS PER MILLION)

		EPA Method 8020				Modified EPA Method 8015	EPA Method 418.1
Sample Identification (Depth in Feet)	Date of Analysis	Benzene	Toluene	Ethyl Benzene	Xylenes	Total Petroleum Hydrocarbons (as gasoline)	Petroleum Oil
Soil							
B9 (16)[1]	Mar 1990	NA[2]	NA	NA	NA	<6	NA
B10 (8)[1]	Mar 1990	NA	NA	NA	NA	12	NA
B11 (11)[1]	Mar 1990	NA	NA	NA	NA	<6	NA
SB9 (8-8.7)	Oct 1991	NA	NA	NA	NA	NA	**14,000**[3]
SB9 (10-11)	Oct 1991	NA	NA	NA	NA	NA	ND[4]
MW-10 (7-8.5)	Mar 1992	NA	NA	NA	NA	NA	34
4SB2 (9-9.5)	Sept 1992	ND[5]	ND[5]	ND[5]	ND[5]	NA	ND
4SB3 (9-9.5)	Sept 1992	NA	NA	NA	NA	NA	ND
4SB4 (6-6.5)	Sept 1992	ND	ND	ND	ND	NA	ND
4SB4 (9-9.5)	Sept 1992	NA	NA	NA	NA	NA	ND
Groundwater							
MW-10	Mar 1992	ND	ND	ND	ND	ND	ND
MTCA Soil Cleanup Levels[6]		0.5	40	20	20	100	200
MTCA Groundwater Cleanup Levels[7]		0.005	0.04	0.03	0.02	1.0	1.0

NOTES:

1 Dames and Moore soil boring.
2 NA = sample not analyzed for this constituent.
3 Results shown in **bold** type exceed MTCA Method A cleanup level.
4 ND = not detected at method detection limit.
5 Sample 4SB2 was analyzed for these constituents by EPA Method 8240/8260. See laboratory report for additional analytes.
6 Method A Soil Cleanup Levels from the Model Toxics Control Act (MTCA) Regulation, Washington Administration Code (WAC), Chapter 173-340, dated February 11, 1991.
7 Method A Groundwater Cleanup Levels from the Model Toxics Control Act (MTCA) Regulation, Washington Administration Code (WAC), Chapter 173-340, dated February 11, 1991.

JR4002.TBL/1

ATTACHMENT D-5

Tables and Figures from JFOS Pipe Sampling Events

APPENDIX D: EXCERPTS FROM PREVIOUS REPORTS

REPORT

HISTORICAL 6-INCH AND 12-INCH LATERAL PIPES INVESTIGATION REPORT

STORMWATER SOURCE CONTROL IMPLEMENTATION

JORGENSEN FORGE FACILITY, SEATTLE, WASHINGTON

Prepared for
Jorgensen Forge Corporation

Prepared by
Anchor QEA, LLC

December 2010

Table 1
Summary of Results

Sample Sample ID Sample Date	Soil Overlying 12-inch Lateral JFC-12S2-052110 5/21/2010	Soil collected from within 12-inch Lateral JFC-12S3-052110 5/21/2010	Overlying Solid Material from within the 12-inch Overlying Soil JFC-OLMS1-052110 5/21/2010	Bell Gasket Sample 1 JFC-GASKET S1-052110 5/21/2010	Bell Gasket Sample 2 JFC-GASKET S2-052110 5/21/2010
Conventional Parameters (pct)					
Total organic carbon	**0.269**	**4.32**	--	--	--
Total solids	**92.7**	**53.2**	--	--	--
Metals (mg/kg dry)					
Arsenic	5 U	**60**	--	--	--
Barium	**25.4**	**96**	--	--	--
Cadmium	**0.3**	**5**	--	--	--
Chromium	**12.5**	**165**	--	--	--
Lead	**3**	**2810**	--	--	--
Mercury	0.02 U	**32**	--	--	--
Selenium	5 U	40 U	--	--	--
Silver	0.3 U	**6**	--	--	--
Aromatic Hydrocarbons (µg/kg)					
Total 10 of 17 HPAH (U = 0)	4.8 U	**19580**	**5550000**	**523000**	**11100**
Total 17 PAH (U = 0)	4.8 U	**94900**	**16471000**	**1019700**	**161300**
Total 7 of 17 LPAH (U = 0)	4.8 U	**75320**	**10921000**	**496700**	**150200**
1-Methylnaphthalene	4.8 U	**10000**	**1200000**	**57000**	**77000**
2-Methylnaphthalene	4.8 U	**13000**	**1900000**	**80000**	**56000**
Acenaphthene	4.8 U	**2600**	**340000**	**17000**	**64000**
Acenaphthylene	4.8 U	**220**	**41000**	**4700**	4100 U
Anthracene	4.8 U	**1700**	**450000**	**24000**	4100 U
Benzo(a)anthracene	4.8 U	**1700**	**540000**	**36000**	4100 U
Benzo(a)pyrene	4.8 U	**1900**	**610000**	**78000**	4100 U
Benzo(b)fluoranthene	4.8 U	**830**	**240000**	**20000**	4100 U
Benzo(g,h,i)perylene	4.8 U	**950 J**	**280000 J**	**99000 J**	4100 U
Benzo(k)fluoranthene	4.8 U	**830**	**240000**	**20000**	4100 U
Chrysene	4.8 U	**1800**	**550000**	**54000**	**4100**
Dibenzo(a,h)anthracene	4.8 U	**230**	**110000**	**14000**	4100 U
Fluoranthene	4.8 U	**3100**	**790000**	**47000**	4100 U
Fluorene	4.8 U	**3800**	**690000**	**31000**	**8200**

Table 1
Summary of Results

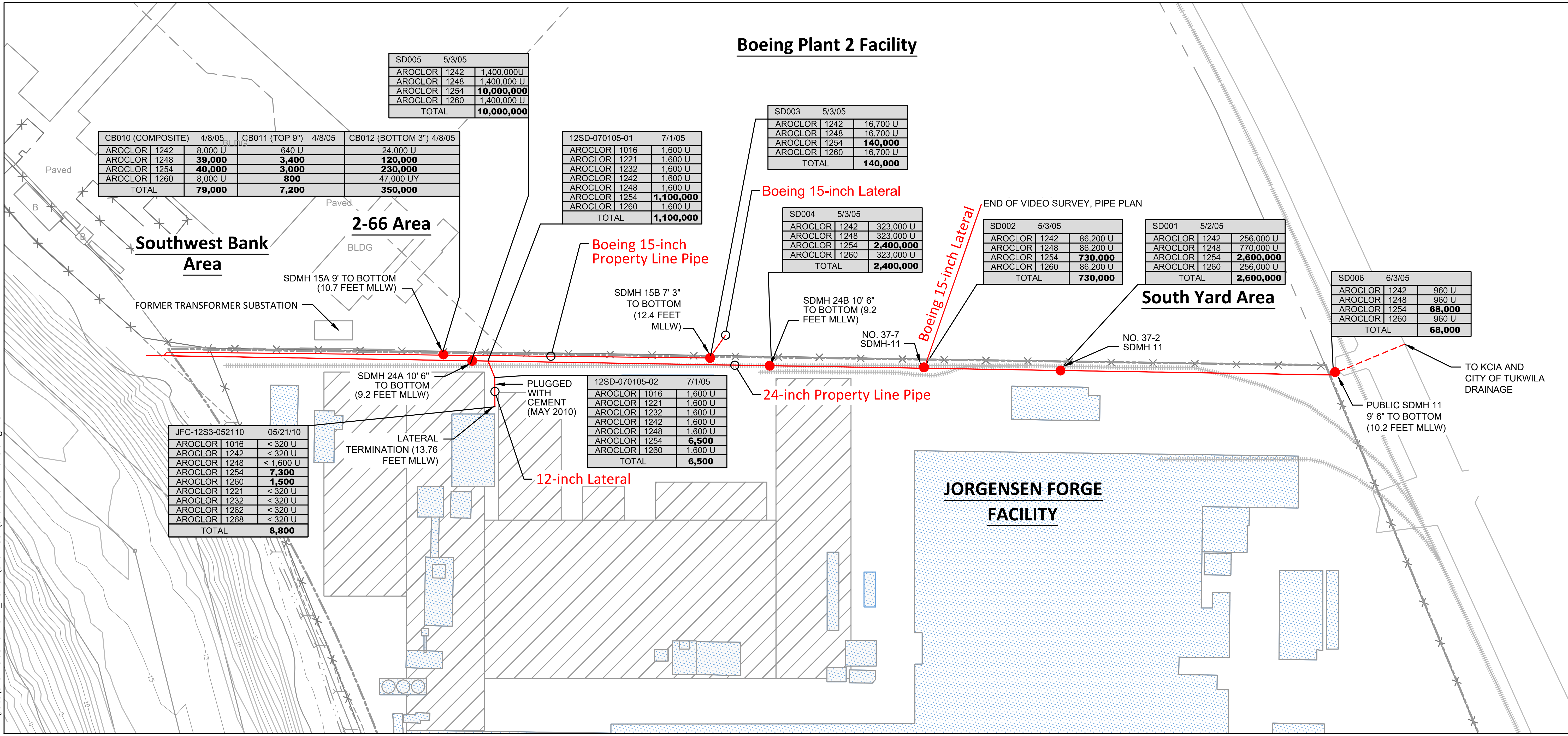
Sample Sample ID Sample Date	Soil Overlying 12-inch Lateral JFC-12S2-052110 5/21/2010	Soil collected from within 12-inch Lateral JFC-12S3-052110 5/21/2010	Overlying Solid Material from within the 12-inch Overlying Soil JFC-OLMS1-052110 5/21/2010	Bell Gasket Sample 1 JFC-GASKET S1-052110 5/21/2010	Bell Gasket Sample 2 JFC-GASKET S2-052110 5/21/2010
Indeno(1,2,3-c,d)pyrene	4.8 U	**640**	**190000**	**25000**	4100 U
Naphthalene	4.8 U	**42000**	**5000000**	**200000**	**7000**
Phenanthrene	4.8 U	**12000**	**2500000**	**140000**	**15000**
Pyrene	4.8 U	**7600**	**2000000**	**130000**	**7000**
Semivolatile Organics (µg/kg)					
Dibenzofuran	4.8 U	**990**	**130000**	**6000**	**46000**
PCB Aroclors (µg/kg)					
Total PCB Aroclors (U = 0)	32 U	**8800**	**2000**	**260000**	**290**
Aroclor 1016	32 U	320 U	61 U	19000 U	61 U
Aroclor 1221	32 U	320 U	61 U	19000 U	61 U
Aroclor 1232	32 U	320 U	61 U	19000 U	61 U
Aroclor 1242	32 U	320 U	61 U	19000 U	61 U
Aroclor 1248	32 U	1600 U	460 U	190000 U	61 U
Aroclor 1254	32 U	**7300**	**2000**	**260000**	**290**
Aroclor 1260	32 U	**1500**	91 U	19000 U	61 U
Aroclor 1262	32 U	320 U	61 U	19000 U	61 U
Aroclor 1268	32 U	320 U	61 U	19000 U	61 U

Notes:

µg/kg	micrograms per kilogram	**Bold**	Detected result
mg/kg	miligrams per kilogram	J	Estimated value
pct	percent	U	Compound analyzed, but not detected above detection limit
PCB	polychlorinated biphenyl	--	Not available

Total low polycyclic aromatic hydrocarbons (LPAH) are the total of naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, and 2-methylnapthalene

Total high polycyclic aromatic hydrocarbons (HPAH) are the total of fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene



SD005	5/3/05	
AROCLOR	1242	1,400,000U
AROCLOR	1248	1,400,000 U
AROCLOR	1254	**10,000,000**
AROCLOR	1260	1,400,000 U
TOTAL		**10,000,000**

		CB010 (COMPOSITE) 4/8/05	CB011 (TOP 9") 4/8/05	CB012 (BOTTOM 3") 4/8/05
AROCLOR	1242	8,000 U	640 U	24,000 U
AROCLOR	1248	**39,000**	**3,400**	**120,000**
AROCLOR	1254	**40,000**	**3,000**	**230,000**
AROCLOR	1260	8,000 U	**800**	47,000 UY
TOTAL		**79,000**	**7,200**	**350,000**

12SD-070105-01	7/1/05	
AROCLOR	1016	1,600 U
AROCLOR	1221	1,600 U
AROCLOR	1232	1,600 U
AROCLOR	1242	1,600 U
AROCLOR	1248	1,600 U
AROCLOR	1254	**1,100,000**
AROCLOR	1260	1,600 U
TOTAL		**1,100,000**

SD003	5/3/05	
AROCLOR	1242	16,700 U
AROCLOR	1248	16,700 U
AROCLOR	1254	**140,000**
AROCLOR	1260	16,700 U
TOTAL		**140,000**

SD004	5/3/05	
AROCLOR	1242	323,000 U
AROCLOR	1248	323,000 U
AROCLOR	1254	**2,400,000**
AROCLOR	1260	323,000 U
TOTAL		**2,400,000**

SD002	5/3/05	
AROCLOR	1242	86,200 U
AROCLOR	1248	86,200 U
AROCLOR	1254	**730,000**
AROCLOR	1260	86,200 U
TOTAL		**730,000**

SD001	5/2/05	
AROCLOR	1242	256,000 U
AROCLOR	1248	770,000 U
AROCLOR	1254	**2,600,000**
AROCLOR	1260	256,000 U
TOTAL		**2,600,000**

SD006	6/3/05	
AROCLOR	1242	960 U
AROCLOR	1248	960 U
AROCLOR	1254	**68,000**
AROCLOR	1260	960 U
TOTAL		**68,000**

JFC-12S3-052110	05/21/10	
AROCLOR	1016	< 320 U
AROCLOR	1242	< 320 U
AROCLOR	1248	< 1,600 U
AROCLOR	1254	**7,300**
AROCLOR	1260	**1,500**
AROCLOR	1221	< 320 U
AROCLOR	1232	< 320 U
AROCLOR	1262	< 320 U
AROCLOR	1268	< 320 U
TOTAL		**8,800**

12SD-070105-02	7/1/05	
AROCLOR	1016	1,600 U
AROCLOR	1221	1,600 U
AROCLOR	1232	1,600 U
AROCLOR	1242	1,600 U
AROCLOR	1248	1,600 U
AROCLOR	1254	**6,500**
AROCLOR	1260	1,600 U
TOTAL		**6,500**

LEGEND:

SDMH 24B Manhole Location

10' 6" TO BOTTOM Feet to Bottom of Pipe

(11.2 FEET MLLW) Assumes Surface Elevation of 19.7 Feet MLLW Across Jorgensen Forge Property

Property Boundary

Railroad Spur

Fence

Current Facility Structures

Former Bethlehem Steel Facility Structures (Not to scale)

BOLD Indicates Concentrations Above The Sediment Management Standards Second Lowest Apparent Threshold Screening Level (2LAET; 1,000 mg/kg)

U No Detectable Concentrations Above the Listed Laboratory Reporting Limit

Y Analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the limit

Note: All results in micrograms per kilogram (ug/kg)

SOURCE: Prepared from drawing provided by Farallon Consulting dated April 15, 2008.

NOTE: Additional buildings added and are not geo-referenced.

HORIZONTAL DATUM: Washington State Plane North, NAD83.

0 120

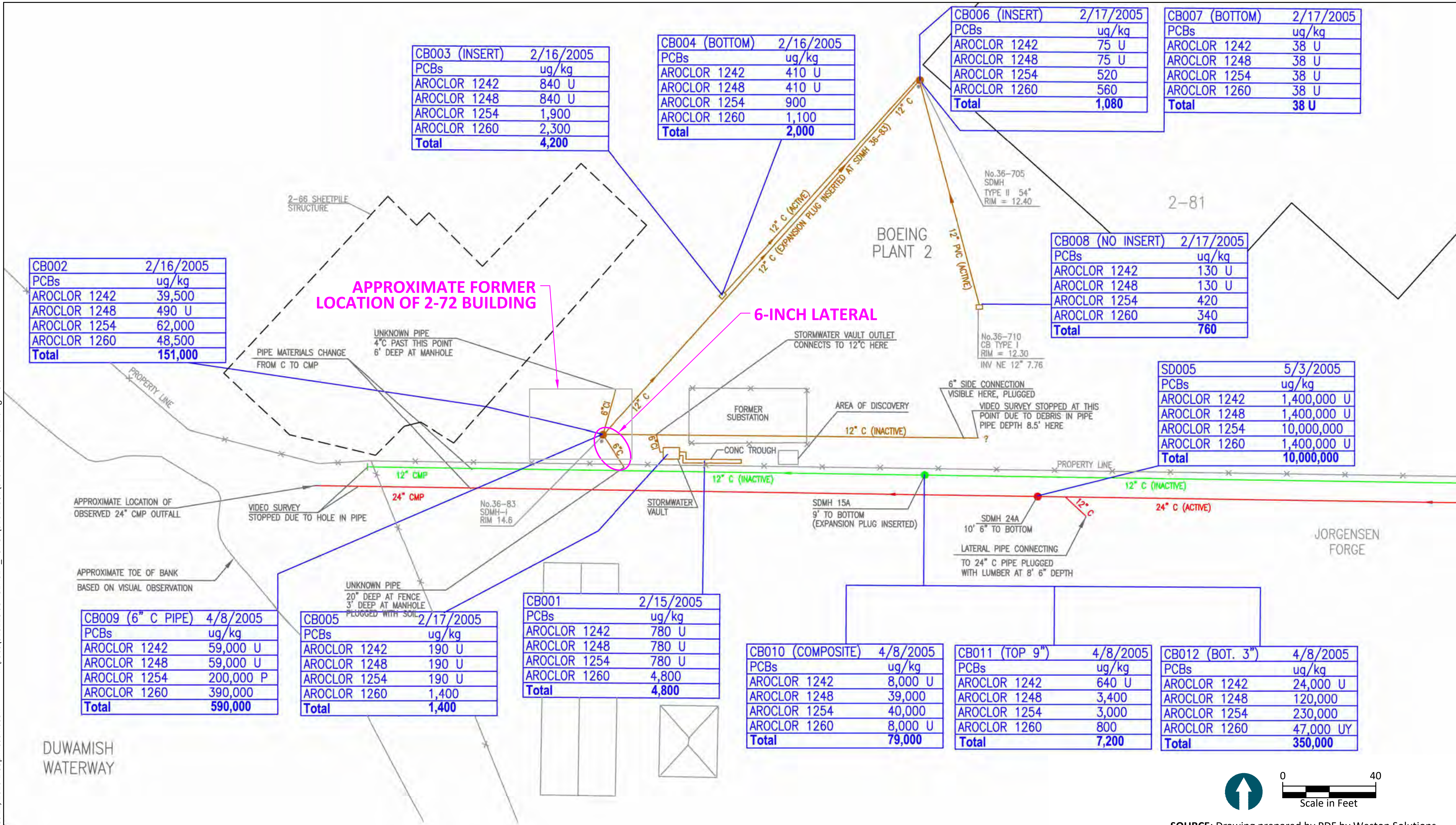
Scale in Feet

K:\Jobs\010128-JORGENSEN_FORGE\01012801\01012801-RP-010.dwg FIG 2

Dec 16, 2010 3:39pm cdavidson

ANCHOR QEA

Figure 2
Property Line Pipes PCB Analytical Results
6-inch and 12-inch Lateral Property Line Pipe Investigation
Jorgensen Forge Corporation
8531 East Marginal Way South, Seattle, Washington



CB002	2/16/2005
PCBs	ug/kg
AROCLOR 1242	39,500
AROCLOR 1248	490 U
AROCLOR 1254	62,000
AROCLOR 1260	48,500
Total	**151,000**

CB003 (INSERT)	2/16/2005
PCBs	ug/kg
AROCLOR 1242	840 U
AROCLOR 1248	840 U
AROCLOR 1254	1,900
AROCLOR 1260	2,300
Total	**4,200**

CB004 (BOTTOM)	2/16/2005
PCBs	ug/kg
AROCLOR 1242	410 U
AROCLOR 1248	410 U
AROCLOR 1254	900
AROCLOR 1260	1,100
Total	**2,000**

CB006 (INSERT)	2/17/2005
PCBs	ug/kg
AROCLOR 1242	75 U
AROCLOR 1248	75 U
AROCLOR 1254	520
AROCLOR 1260	560
Total	**1,080**

CB007 (BOTTOM)	2/17/2005
PCBs	ug/kg
AROCLOR 1242	38 U
AROCLOR 1248	38 U
AROCLOR 1254	38 U
AROCLOR 1260	38 U
Total	**38 U**

CB008 (NO INSERT)	2/17/2005
PCBs	ug/kg
AROCLOR 1242	130 U
AROCLOR 1248	130 U
AROCLOR 1254	420
AROCLOR 1260	340
Total	**760**

SD005	5/3/2005
PCBs	ug/kg
AROCLOR 1242	1,400,000 U
AROCLOR 1248	1,400,000 U
AROCLOR 1254	10,000,000
AROCLOR 1260	1,400,000 U
Total	**10,000,000**

CB009 (6" C PIPE)	4/8/2005
PCBs	ug/kg
AROCLOR 1242	59,000 U
AROCLOR 1248	59,000 U
AROCLOR 1254	200,000 P
AROCLOR 1260	390,000
Total	**590,000**

CB005	2/17/2005
PCBs	ug/kg
AROCLOR 1242	190 U
AROCLOR 1248	190 U
AROCLOR 1254	190 U
AROCLOR 1260	1,400
Total	**1,400**

CB001	2/15/2005
PCBs	ug/kg
AROCLOR 1242	780 U
AROCLOR 1248	780 U
AROCLOR 1254	780 U
AROCLOR 1260	4,800
Total	**4,800**

CB010 (COMPOSITE)	4/8/2005
PCBs	ug/kg
AROCLOR 1242	8,000 U
AROCLOR 1248	39,000
AROCLOR 1254	40,000
AROCLOR 1260	8,000 U
Total	**79,000**

CB011 (TOP 9")	4/8/2005
PCBs	ug/kg
AROCLOR 1242	640 U
AROCLOR 1248	3,400
AROCLOR 1254	3,000
AROCLOR 1260	800
Total	**7,200**

CB012 (BOT. 3")	4/8/2005
PCBs	ug/kg
AROCLOR 1242	24,000 U
AROCLOR 1248	120,000
AROCLOR 1254	230,000
AROCLOR 1260	47,000 UY
Total	**350,000**

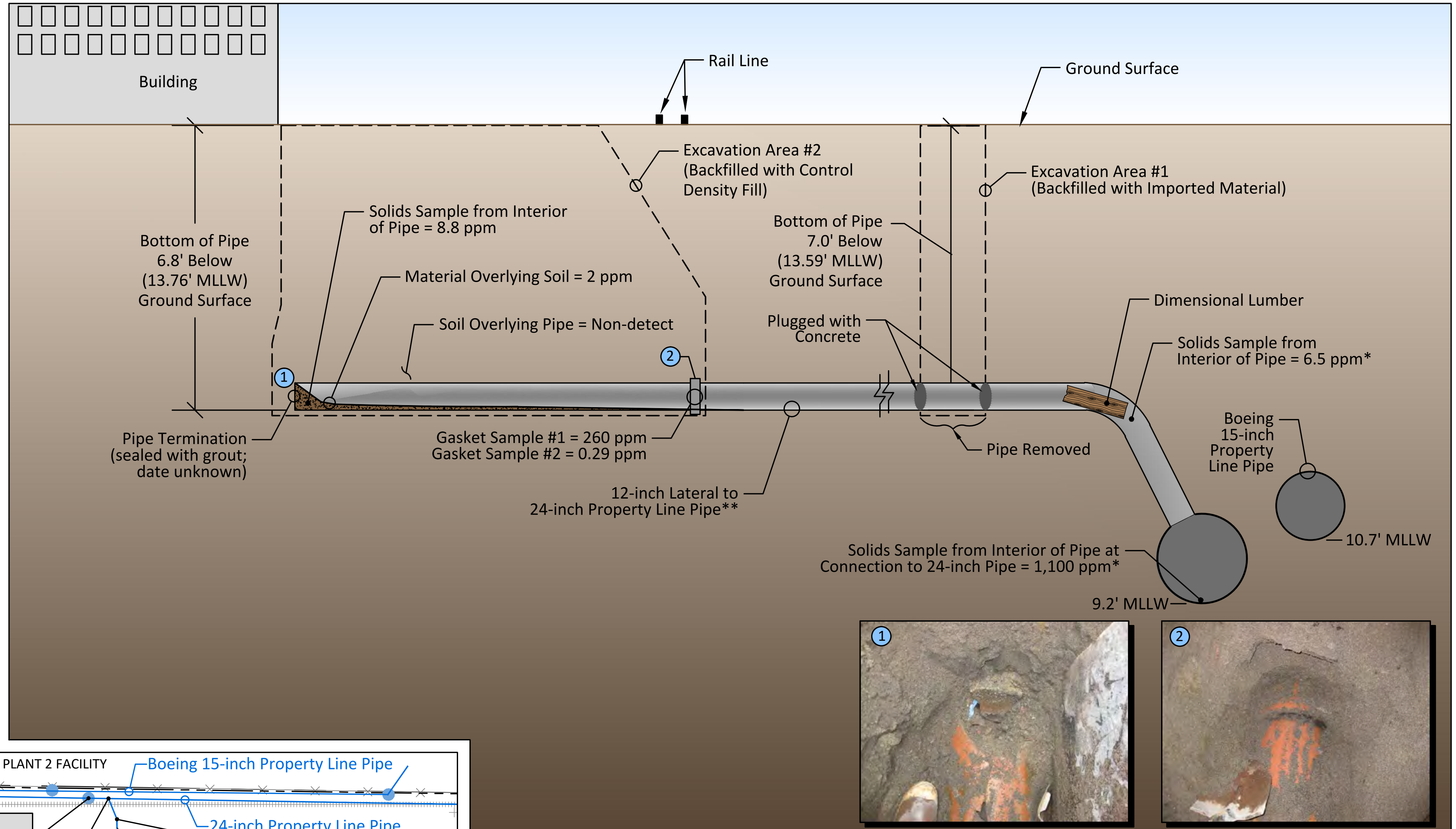
SOURCE: Drawing prepared by PDF by Weston Solutions.

K:\Jobs\010128-JORGENSEN_FORGE\01012801\01012801-RP-012.dwg FIG 3

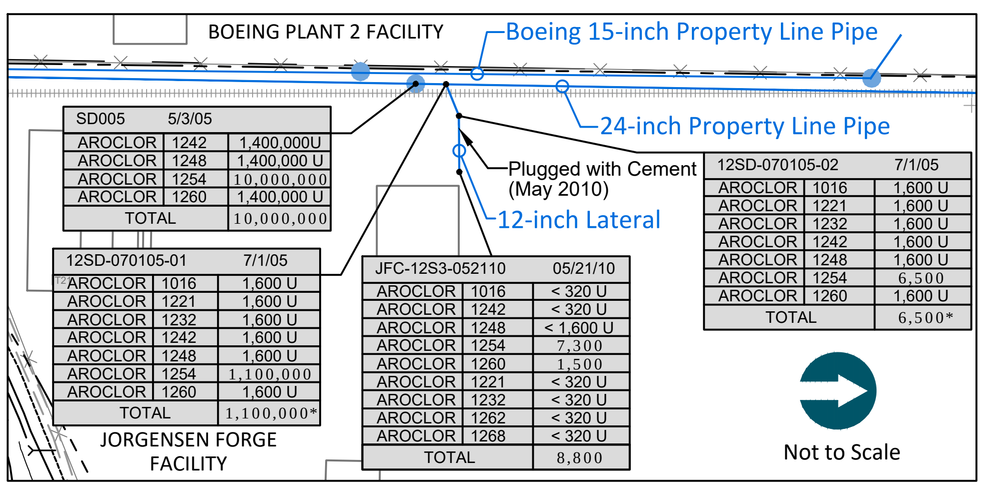
Dec 21, 2010 1:35pm cdavidson

ANCHOR QEA

Figure 3
Boeing Phase 2 Transformer Investigation
6-inch and 12-inch Lateral Property Line Pipe Investigation
Jorgensen Forge Corporation
8531 East Marginal Way South, Seattle, Washington



Not to Scale



SD005	5/3/05	
AROCLOR	1242	1,400,000U
AROCLOR	1248	1,400,000 U
AROCLOR	1254	10,000,000
AROCLOR	1260	1,400,000 U
TOTAL		10,000,000

12SD-070105-01	7/1/05	
AROCLOR	1016	1,600 U
AROCLOR	1221	1,600 U
AROCLOR	1232	1,600 U
AROCLOR	1242	1,600 U
AROCLOR	1248	1,600 U
AROCLOR	1254	1,100,000
AROCLOR	1260	1,600 U
TOTAL		1,100,000*

JFC-12S3-052110	05/21/10	
AROCLOR	1016	< 320 U
AROCLOR	1242	< 320 U
AROCLOR	1248	< 1,600 U
AROCLOR	1254	7,300
AROCLOR	1260	1,500
AROCLOR	1221	< 320 U
AROCLOR	1232	< 320 U
AROCLOR	1262	< 320 U
AROCLOR	1268	< 320 U
TOTAL		8,800

12SD-070105-02	7/1/05	
AROCLOR	1016	1,600 U
AROCLOR	1221	1,600 U
AROCLOR	1232	1,600 U
AROCLOR	1242	1,600 U
AROCLOR	1248	1,600 U
AROCLOR	1254	6,500
AROCLOR	1260	1,600 U
TOTAL		6,500*

Plan View

Not to Scale

NOTES:

*Farallon Consulting, LLC (Farallon), 2005. Storm Drain Line Data Summary, Jorgensen Forge Corporation Technical Memorandum, July 28, 2005.

**The 12-inch lateral was discovered to be a 10-inch clay pipe rather than the previously reported 12-inch concrete pipe. This Investigation Report refers to this pipe as the 12-lateral for consistency.

VERTICAL DATUM: Mean Lower Low Water (MLLW)

ANCHOR QEA

Figure 4

Total PCB Concentrations - 12-inch Lateral Investigation
6-inch and 12-inch Lateral Property Line Pipe Investigation
Jorgensen Forge Corporation
8531 East Marginal Way South, Seattle, Washington

APPENDIX D: EXCERPTS FROM PREVIOUS REPORTS

ATTACHMENT D-6

Stormwater Sampling Tables and Figures

FINAL
SOURCE CONTROL EVALUATION REPORT

JORGENSEN FORGE FACILITY
8531 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

Prepared for Submittal to

Washington State Department of Ecology
Northwest Regional Office
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On behalf of

Jorgensen Forge Corporation
8531 East Marginal Way South
Seattle, Washington 98108-4818

May 2008

Table 5-22
Summary of Stormwater Analytical Results for SMS Metals

Sample Location	Sample Identification	Sample Date	Sampled by	Sample Location	Analytical Results (micrograms per liter) [1] Arsenic		Cadmium		Chromium		Copper		Lead		Mercury		Nickel		Silver		Zinc	
					Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Stormwater Outfalls																						
Outfall 1	E-1	1990	Dames & Moore	Discharge	1 U	—	1 U	—	4 U	—	—	—	10 U	—	0.1 U	—	—	—	2 U	—	—	—
Outfall 2	E-2	1990	Dames & Moore	Discharge	26	—	1 U	—	4 U	—	—	—	10 U	—	0.3 U	—	—	—	2 U	—	—	—
	AJF-02SW-050519	5/19/2005	Anchor	Catch Basin	5.35	4.29	0.166 J	0.054 J	109	5.21	68.1	15.3	11.4	0.28 J	0.2 U	**0.2 U**	103	9.14	0.092 J	0.011 J	196	40.4
Outfall 3	E-3	1990	Dames & Moore	Discharge	7	—	1 U		4.2 U	—	—	—	10 U	—	0.2	—	—	—	2.1 U	—	—	—
	JOR-01SW-031015	10/15/2003	Anchor	Discharge	—	—	—	—	—	—	408	—	150	—	—	—	—	—	—	—	1,520	—
	JOR-01SW-040324	3/24/2004	Anchor	Discahrge	—	—	—	—	—	—	481	—	130	—	—	—	—	—	—	—	658	—
	JOR-02SW-041008	10/8/2004	Anchor	Catch Basin	—	—	—	—	—	—	32	—	20 U	—	—	—	—	—	—	—	217	—
	JOR-02SW-041206	12/6/2004	Anchor	Catch Basin	—	—	—	—	—	—	34	—	20 U	—	—	—	—	—	—	—	296	—
	JOR-02SW-050704	4/7/2005	Anchor	Catch Basin	—	—	—	—	—	—	39	—	20 U	—	—	—	—	—	—	—	578	—
	AJF-03SW-050519	5/19/2005	Anchor	Catch Basin	1.45	1.09	0.278 J	0.046 J	45.2	3.3	29.6	9.09	8.64	0.436 J	0.2 U	**0.2 U**	26.4	4.28	0.059 J	0.005 J	269	45.2
	JOR-01SW-051230	12/30/2005	Anchor	Discharge	—	—	—	—	—	—	16	—	20 U	—	—	—	—	—	—	—	284	—
	JOR-02SW-060316	3/16/2006	Anchor	Catch Basin	—	—	—	—	—	—	30	—	20 U	—	—	—	—	—	—	—	376	—
	JOR-02SW-060601	6/1/2006	Anchor	Catch Basin	—	—	—	—	—	—	25	—	20 U	—	—	—	—	—	—	—	715	—
	JOR-02SW-060919	9/19/2006	Anchor	Catch Basin	—	—	—	—	—	—	58	—	20 U	—	—	—	—	—	—	—	357	—
	JOR-04SW-060919	9/19/2006	Anchor	Catch Basin	—	—	—	—	—	—	9	—	20 U	—	—	—	—	—	—	—	70	—
	JOR-04SW-060919	9/19/2006	Anchor	Catch Basin	—	—	—	—	—	—	168	—	60	—	—	—	—	—	—	—	260	—
	JOR-03SW-061220	12/20/2006	Anchor	Catch Basin	—	—	—	—	—	—	43	—	20 U	—	—	—	—	—	—	—	456	—
	JOR-04SW-070409	4/9/2007	Anchor	Catch Basin	—	—	—	—	—	—	49	—	20 U	—	—	—	—	—	—	—	70	—
Outfall 4	E-4	1990	Dames & Moore	Discharge	<1	—	<1	—	<4.2	—	—	—	<10	—	<0.1	—	—	—	<2.1	—	—	—
Source Control Evaluation Screening Level Values					**NE**	**36** [2]	**NE**	**1.03** [3]	**NE**	**10** [3]	**NE**	**3.1** [2]	**NE**	**2.5** [3]	**NE**	**0.125** [5]	**NE**	**8.2** [2]	**NE**	**25,900** [4]	**NE**	**81** [2]

NOTES:

Results in **BOLD** indicate that the laboratory practical quantitation limit exceeds the screening level value.

Indicates detected concentration exceeds the Source Control Evaluation Screening Level Value.

[1] Analyzed by U.S. Environmental Protection Agency 6000/7000 Series Methods.

[2] Washington State Department of Ecology Water Quality Standards for Surface Waters of the State of Washington, Toxic Substances Criteria for Marine Water, Chronic Toxicity, Chapter 173-201A of the Washington Administrative Code, November 2006.

[3] Washington State Department of Ecology Water Quality Standards for Surface Waters of the State of Washington, Toxic Substances Criteria for Marine Water, Chronic Toxicity, Chapter 173-201A of the Washington Administrative Code, November 2006.

[4] Washington State Department of Ecology Cleanup Levels and Risk Calculations (CLARC) under the Model Toxics Control Act (MTCA) Cleanup Regulation, Standard Method B Formula Values for Surface Water, November 2001.

[5] Laboratory practical detection limit.

Concentrations of total/dissolved metals in Seep Sample Seep 20 correspond to unfiltered/filtered sample results.

— = not analyzed

J = denotes result reported is an estimate

U = no detectable concentrations above the listed laboratory practical quantitation limit

NE= not estabilshed

Table 5-23
Summary of Stormwater Analytical Results for Polychlorinated Biphenyls

Sample Location	Sample Identification	Sample Date	Sampled by	Analytical Results (micrograms per liter) [1]							
				Aroclor							
				1016	1221	1232	1242	1248	1254	1260	Total PCBs
Outfall 2	AJF-02SW-050519	5/19/2005	Anchor	**0.19 U**	**0.19 U**	**0.19 U**	**0.19 U**	**0.19 U**	**0.19 U**	**0.19 U**	**0.19 U**
Outfall 3	AJF-03SW-050519	5/19/2005	Anchor	**0.19 U**	**0.19 U**	**0.19 U**	**0.19 U**	**0.19 U**	**0.19 U**	**0.19 U**	**0.19 U**
Source Control Evaluation Screening Level Value [2]											**0.05**

NOTES:

Results in **BOLD** indicate that the laboratory practical quantitation limit exceeds the screening level value.

U = no detectable concentrations above the listed laboratory practical quantitation limit

Indicates detected concentration exceeds the Source Control Evaluation Screening Level Value.

[1] Analyzed by U.S. Environmental Protection Agency Method 608, 8080, 8081, or 8082.

[2] Laboratory Practical Detection Limit for PCBs in Water.

FINAL

SOURCE CONTROL EVALUATION ADDENDUM REPORT

JORGENSEN FORGE FACILITY
8531 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON

Prepared for

Washington State Department of Ecology
Northwest Regional Office
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Issaquah, Washington 98027

On behalf of

Jorgensen Forge Corporation

March 2011

Table 1

Data Gaps Investigation Subsurface Vault and Pit Water and Stormwater Sampling Results

			Outfall 001 Drainage				Outfall 002 Drainage					
Location ID			Outfall 001	Outfall 001	Vacuum De-gassing Pit	Vacuum De-gassing Pit	Outfall 002	Outfall 002	East Forge Shop Roof	East Forge Shop Roof	West Forge Shop Roof	West Forge Shop Roof
Sample ID			AJF-010D-090506	AJF-010D-090813	AJF-01VDP-090506	AJF-01VDP-090813	AJF-020D-090506	AJF-020D-090813	AJF-RFSE-090506	AJF-RFSE-090813	AJF-RFSW-090506	AJF-RFSW-090813
Sample Date			5/6/2009	08/13/2009	5/6/2009	08/13/2009	5/6/2009	08/13/2009	5/6/2009	08/13/2009	5/6/2009	08/13/2009
Description	Source Control Evaluation Screening Levels	NPDES Benchmark Values[d]	Outfall 001 Upgradient Vault	Outfall 001 Upgradient Vault	Vacuum De-gassing Pit Groundwater Discharge Into Cold Well	Vacuum De-gassing Pit Groundwater Discharge Into Cold Well	Outfall 002 Discharge	Outfall 002 Upgradient Vault	Roof Runoff East Portion of Forge Shop	Roof Runoff East Portion of Forge Shop	Roof Runoff West Portion of Forge Shop	Roof Runoff West Portion of Forge Shop
Conventional Parameters (µmhos/cm)												
Conductivity	--	--	**54**	**36**	--	--	**270**	**75**	--	--	--	--
Conventional Parameters (su)												
pH	--	5.0 - 9.0	**7.24**	**7.67 J**	--	**7.11 J**	**9.29**	**8.88 J**	--	--	--	--
Conventional Parameters (ntu)												
Turbidity	--	25	**2 J**	**4.3**	--	**28**	**0.42 J**	**35**	--	--	--	--
Conventional Parameters (mg/L)												
Hardness as CaCO3	--	--	--	--	--	--	--	--	--	--	--	--
Total organic carbon	--	--	**2.9**	**4**	--	--	**4.6**	**7.1**	--	--	--	--
Total Suspended Solids	--	--	2 U	**7.8**	--	**5**	2 U	**98**	2 U	2 U	2 U	2 U
Dissolved Metals (µg/L)												
Arsenic	36 [b]	--	**99**	**18**	**1.9 J**	2 U	**5.3**	2 U	2 U	**2 U**	**13**	**6.9**
Cadmium	1.03 [a]	--	**0.54 J**	**0.27 J**	2 U	2 U	2 U	2 U	**0.96 J**	**2.6**	2 U	2 U
Chromium	10 [a]	--	**7.4**	**4.3**	**3.5**	**0.68 J**	**12**	**11**	**4.8**	**2.6**	**10**	**13**
Copper	3.1 [b]	--	**10**	**14**	**1.8 J**	**0.5 J**	**3.2 J**	**48**	**2.6 J**	**12**	**4.7 J**	**12**
Lead	2.52 [a]	--	**0.32 J**	**0.97 J**	2 U	2 U	**0.2 J**	**0.26 J**	2 U	2 U	2 U	2 U
Mercury	--	--	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
Nickel	8.2 [b]	--	**3.3**	**3.6**	**4.6**	**2.6**	**2.4**	**4.2**	**3.2**	**15**	**1.9 J**	**3.1**
Silver	25900	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Zinc	81 [b]	--	**170**	**95**	**9.7**	7 U	**4.2 J**	9.9 U	**28**	**44**	**42**	**24**
Total Metals (µg/L)												
Arsenic	--	--	**100**	**20**	**6.1**	**4.7**	**3**	**0.66 J**	2 U	**0.24 J**	**13**	**6.7**
Cadmium	--	--	**0.64 J**	**0.29 J**	2 U	2 U	**0.3 J**	**0.34 J**	**1.2 J**	**2.7**	2 U	2 U
Chromium	--	--	**10**	**50**	**5.1**	6.9 U	**11**	**660**	**3.9**	**14**	**10**	**13**
Copper	--	14	**15**	**19**	**2.5 J**	**1.6 J**	**2.9 J**	**140**	**2.7 J**	**13**	**5.3**	**12**
Lead	--	81.6	**1.4 J**	**15**	**0.32 J**	**0.27 J**	**0.26 J**	**28**	**0.4 J**	**1 J**	**0.5 J**	**0.42 J**
Mercury	0.125 [c]	--	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
Nickel	--	--	**4.3**	**17**	**4.8**	**5**	**2.3**	**270**	**3.7**	**17**	**2.2**	**3.6**
Silver	--	--	2 U	2 U	2 U	2 U	2 U	**0.2 J**	2 U	2 U	2 U	2 U
Zinc	--	117	**190**	**130**	**5.5 J**	8 U	**3 J**	**320**	**29**	**47**	**43**	**27**
Volatile Organics (µg/L)												
Benzene	22.7	--	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Ethylbenzene	69100	--	1 U	1 U	1 U	**0.064 J**	1 U	1 U	--	--	--	--
m,p-Xylene	--	--	2 U	2 U	2 U	2 U	2 U	2 U	--	--	--	--
o-Xylene	--	--	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Toluene	48500	--	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--
Polycyclic Aromatic Hydrocarbons (µg/L)												
1-Methylnaphthalene	--	--	0.099 U	0.29 U	**0.046 J**	0.29 U	0.098 U	0.29 U	--	--	--	--
2-Methylnaphthalene	--	--	0.13 U	0.96 U	0.12 U	0.96 U	0.13 U	0.98 U	--	--	--	--
Acenaphthene	643	--	0.099 U	0.48 U	**0.82**	**0.74**	0.098 U	0.49 U	--	--	--	--
Acenaphthylene	--	--	0.099 U	0.38 U	**0.023 J**	0.39 U	0.098 U	0.39 U	--	--	--	--
Anthracene	25900	--	0.099 U	0.19 U	**0.057 J**	**0.053 J**	0.098 U	0.2 U	--	--	--	--
Benzo(a)anthracene	0.0296	--	0.099 U	0.29 U	0.095 U	0.29 U	0.098 U	0.29 U	--	--	--	--
Benzo(a)pyrene	0.0296	--	**0.027 J**	0.19 U	**0.027 J**	0.19 U	**0.027 J**	0.2 U	--	--	--	--
Benzo(b)fluoranthene	0.0296	--	0.099 U	0.38 U	0.095 U	0.39 U	0.098 U	0.39 U	--	--	--	--
Benzo(g,h,i)perylene	--	--	0.099 U	0.29 U	0.095 U	0.29 U	0.098 U	0.29 U	--	--	--	--
Benzo(k)fluoranthene	0.0296	--	0.099 U	0.29 U	0.095 U	0.29 U	0.098 U	0.29 U	--	--	--	--

Table 1
Data Gaps Investigation Subsurface Vault and Pit Water and Stormwater Sampling Results

			Outfall 001 Drainage				Outfall 002 Drainage					
Location ID			**Outfall 001**	**Outfall 001**	**Vacuum De-gassing Pit**	**Vacuum De-gassing Pit**	**Outfall 002**	**Outfall 002**	**East Forge Shop Roof**	**East Forge Shop Roof**	**West Forge Shop Roof**	**West Forge Shop Roof**
Sample ID			**AJF-010D-090506**	**AJF-010D-090813**	**AJF-01VDP-090506**	**AJF-01VDP-090813**	**AJF-020D-090506**	**AJF-020D-090813**	**AJF-RFSE-090506**	**AJF-RFSE-090813**	**AJF-RFSW-090506**	**AJF-RFSW-090813**
Sample Date			**5/6/2009**	**08/13/2009**	**5/6/2009**	**08/13/2009**	**5/6/2009**	**08/13/2009**	**5/6/2009**	**08/13/2009**	**5/6/2009**	**08/13/2009**
Description	**Source Control Evaluation Screening Levels**	**NPDES Benchmark Values[d]**	**Outfall 001 Upgradient Vault**	**Outfall 001 Upgradient Vault**	**Vacuum De-gassing Pit Groundwater Discharge Into Cold Well**	**Vacuum De-gassing Pit Groundwater Discharge Into Cold Well**	**Outfall 002 Discharge**	**Outfall 002 Upgradient Vault**	**Roof Runoff East Portion of Forge Shop**	**Roof Runoff East Portion of Forge Shop**	**Roof Runoff West Portion of Forge Shop**	**Roof Runoff West Portion of Forge Shop**
Chrysene	0.0296	--	0.099 U	0.19 U	0.095 U	0.19 U	0.098 U	0.2 U	--	--	--	--
Dibenzo(a,h)anthracene	0.0296	--	0.099 U	0.29 U	0.095 U	0.29 U	0.098 U	0.29 U	--	--	--	--
Fluoranthene	90.2	--	0.099 U	0.24 U	**0.085 J**	**0.076 J**	0.098 U	**0.19 J**	--	--	--	--
Fluorene	3460	--	0.099 U	0.29 U	**0.28**	**0.24 J**	0.098 U	0.29 U	--	--	--	--
Indeno(1,2,3-c,d)pyrene	0.0296	--	0.099 U	0.29 U	0.095 U	0.29 U	0.098 U	0.29 U	--	--	--	--
Naphthalene	49400	--	0.099 U	1.9 U	**0.055 J**	1.9 U	0.098 U	2 U	--	--	--	--
Phenanthrene	--	--	0.099 U	**0.054 J**	**0.048 J**	**0.057 J**	0.098 U	**0.34 J**	--	--	--	--
Pyrene	2590	--	0.099 U	0.29 U	**0.085 J**	**0.07 J**	0.098 U	**0.12 J**	--	--	--	--
Semi-Volatile Organic Compounds (µg/L)									--	--	--	--
1,2,4-Trichlorobenzene	227	--	2 U	1.9 U	1.9 U	1.9 U	2 U	2 U	--	--	--	--
1,2-Dichlorobenzene	4200	--	2 U	1.9 U	1.9 U	1.9 U	2 U	2 U	--	--	--	--
1,3-Dichlorobenzene	--	--	2 U	1.9 U	1.9 U	1.9 U	2 U	2 U	--	--	--	--
1,4-Dichlorobenzene	4.86	--	2 U	1.9 U	1.9 U	1.9 U	2 U	2 U	--	--	--	--
2,4-Dimethylphenol	--	--	5 U	4.8 U	4.7 U	4.8 U	3 U	4.9 U	--	--	--	--
2-Methylphenol (o-Cresol)	--	--	2 U	1.9 U	1.9 U	1.9 U	4 U	2 U	--	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	--	--	4 U	3.8 U	3.8 U	3.9 U	5 U	3.9 U	--	--	--	--
Benzoic acid	--	--	9.9 U	9.6 UJ	9.5 U	9.6 UJ	6 U	**8.5 J**	--	--	--	--
Benzyl alcohol	--	--	2 U	1.9 U	1.9 U	1.9 U	7 U	2 U	--	--	--	--
Bis(2-ethylhexyl) phthalate	3.56	--	15 U	14 U	14 U	14 U	8 U	15 U	--	--	--	--
Butylbenzyl phthalate	1250	--	3 U	**0.94 J**	2.8 U	2.9 U	9 U	**1.7 J**	--	--	--	--
Dibenzofuran	--	--	2 U	1.9 U	1.9 U	1.9 U	10 U	2 U	--	--	--	--
Diethyl phthalate	28400	--	2 U	1.9 U	1.9 U	1.9 U	11 U	2 U	--	--	--	--
Dimethyl phthalate	72000	--	2 U	1.9 U	1.9 U	1.9 U	12 U	2 U	--	--	--	--
Di-n-butyl phthalate	2910	--	2 U	**0.89 J**	1.9 U	1.9 U	13 U	**0.84 J**	--	--	--	--
Di-n-octyl phthalate	--	--	2 U	1.9 U	1.9 U	1.9 U	14 U	2 U	--	--	--	--
Hexachlorobenzene	0.000466	--	2 U	1.9 U	1.9 U	1.9 U	15 U	2 U	--	--	--	--
Hexachlorobutadiene	29.9	--	3 U	2.9 U	2.8 U	2.9 U	16 U	2.9 U	--	--	--	--
Hexachloroethane	--	--	3 U	2.9 U	2.8 U	2.9 U	17 U	2.9 U	--	--	--	--
N-Nitrosodiphenylamine	9.73	--	2 U	1.9 U	1.9 U	1.9 U	18 U	2 U	--	--	--	--
Pentachlorophenol	7.9 [b]	--	3.5 U	3.4 U	3.3 U	3.4 U	19 U	3.4 U	--	--	--	--
Phenol		--	3.0 U	2.9 UJ	2.8 U	2.9 UJ	20 U	**0.34 J**	--	--	--	--
Total Petroleum Hydrocarbons (mg/L)												
Diesel #2 Range	10[d]	10	**0.27**	**0.2**	**0.17**	**0.22**	**0.51**	**0.39**	--	--	--	--
Gasoline Range Hydrocarbons	--	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	--	--	--	--
Motor Oil Range	--	--	0.27 U	**0.099 J**	0.29 U	**0.13 J**	**0.54**	**0.72**	--	--	--	--
Oil and grease	--	--	--	--	--	--	--	--	--	--	--	--

Table 1
Data Gaps Investigation Subsurface Vault and Pit Water and Stormwater Sampling Results

			Outfall 003 Drainage										
Location ID			Outfall 003	Outfall 003	Outfall 003	Forge Shop Manhole	Forge Shop Manhole	Machine Shop Manhole	Machine Shop Manhole	East Machine Shop Roof	East Machine Shop Roof	West Machine Shop Roof	West Machine Shop Roof
Sample ID			AJF-030D-090506	AJF-530D-090506	AJF-030D-090813	AJF-MHFS-090506	AJF-MHFS-090813	AJF-MHMS-090506	AJF-MHMS-090813	AJF-RMSE-090506	AJF-RMSE-090813	AJF-RMSW-090506	AJF-RMSW-090813
Sample Date			5/6/2009	5/6/2009	08/13/2009	5/6/2009	08/13/2009	5/6/2009	08/13/2009	5/6/2009	08/13/2009	5/6/2009	08/13/2009
Description	Source Control Evaluation Screening Levels	NPDES Benchmark Values[d]	Outfall 003 Discharge	Outfall 003 Discharge (Duplicate)	Outfall 003 Discharge	Roof Drain Runoff Entering Subgrade Manhole from Forge Shop	Roof Drain Runoff Entering Subgrade Manhole from Forge Shop	Roof Drain Runoff Entering Subgrade Manhole from Machine Shop	Roof Drain Runoff Entering Subgrade Manhole from Machine Shop	Roof Runoff East Portion of Machine Shop	Roof Runoff East Portion of Machine Shop	Roof Runoff West Portion of Machine Shop	Roof Runoff West Portion of Machine Shop
Conventional Parameters (µmhos/cm)													
Conductivity	--	--	**69**	--	**76**	--		--	--	--	--	--	--
Conventional Parameters (su)													
pH	--	5.0 - 9.0	**8.48**	--	**8.18 J**	--	**7.73 J**	--	**7.31 J**	--	--	--	--
Conventional Parameters (ntu)													
Turbidity	--	25	**36 J**	--	**44**	--	**39**	--	**9.9**	--	--	--	--
Conventional Parameters (mg/L)													
Hardness as CaCO3	--	--	--	--	**38**	--	--	--	--	--	--	--	--
Total organic carbon	--	--	**2.6**	--	**9.9**	**2.4**	**5.5**	**1.6**	**12**	--	--	--	--
Total Suspended Solids	--	--	**41**	--	**36**	**52**	**18**	**5.4**	**5**	**17**	**15**	2 U	**6**
Dissolved Metals (µg/L)													
Arsenic	36 [b]	--	**0.32 J**	2 U	2 U	**0.24 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	1.03 [a]	--	2 U	2 U	**0.24 J**	2 U	**0.26 J**	2 U	**0.26 J**	**0.52 J**	**0.39 J**	**0.2 J**	**4.6**
Chromium	10 [a]	--	**6**	**6.3**	**12**	**5.7**	**4.7**	**6.4**	**6.2**	**4.9**	**3.5**	**7.8**	**3.8**
Copper	3.1 [b]	--	**15**	**14**	**46**	**19**	**25**	**4.5 J**	**26**	**5.6**	**7.6**	**18**	**36**
Lead	2.52 [a]	--	**0.26 J**	**0.26 J**	**0.24 J**	**0.26 J**	**0.18 J**	2 U	**0.28 J**	**0.7 J**	**3.8**	2 U	**0.66 J**
Mercury	--	--	0.2 U	0.2 U	**0.049 J**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	8.2 [b]	--	**5**	**4.7**	**13**	**7.9**	**8.6**	**3**	**10**	**5.8**	**4.2**	**21**	**92**
Silver	25900	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Zinc	81 [b]	--	**26**	**33**	**120**	**28**	**49**	**300**	**350**	**910**	**720**	**100**	**5800**
Total Metals (µg/L)													
Arsenic	--	--	**3.1**	**2.1**	**0.97 J**	**3.8**	2 U	2 U	2 U	2 U	2 U	**2.5**	2 U
Cadmium	--	--	**0.4 J**	**0.43 J**	**0.5 J**	**0.66 J**	**0.42 J**	**0.24 J**	**0.32 J**	**0.73 J**	**0.48 J**	**0.34 J**	**4.7**
Chromium	--	--	**120**	**97**	**110**	**130**	**24**	**16**	**11**	**7.6**	**26**	**180**	**4.9**
Copper	--	14	**80**	**64**	**93**	**130**	**56**	**11**	**29**	**5.9**	**14**	**49**	**39**
Lead	--	81.6	**8.9**	**7.9**	**9.6**	**12**	**4.7**	**2.6**	**2.2**	**1.7 J**	**56**	**6**	**2.4**
Mercury	0.125 [c]	--	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	0.2 U
Nickel	--	--	**110**	**81**	**120**	**180**	**58**	**12**	**16**	**18**	**18**	**140**	**96**
Silver	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Zinc	--	117	**250**	**280**	**280**	**310**	**120**	**380**	**350**	**1600**	**840**	**120**	**6100**
Volatile Organics (µg/L)													
Benzene	22.7	--	1 U	1 U	1 U	--	--	--	--	--	--	--	--
Ethylbenzene	69100	--	1 U	1 U	1 U	--	--	--	--	--	--	--	--
m,p-Xylene	--	--	2 U	2 U	2 U	--	--	--	--	--	--	--	--
o-Xylene	--	--	1 U	1 U	1 U	--	--	--	--	--	--	--	--
Toluene	48500	--	1 U	1 U	1 U	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (µg/L)													
1-Methylnaphthalene	--	--	0.095 U	0.096 U	0.29 U	0.099 U	0.28 U	0.1 U	0.29 U	--	--	--	--
2-Methylnaphthalene	--	--	0.12 U	0.13 U	0.97 U	0.13 U	0.95 U	0.13 U	0.95 U	--	--	--	--
Acenaphthene	643	--	0.095 U	0.096 U	0.48 U	**0.011 J**	0.47 U	0.1 U	0.48 U	--	--	--	--
Acenaphthylene	--	--	0.095 U	0.096 U	0.39 U	0.099 U	0.38 U	0.1 U	0.38 U	--	--	--	--
Anthracene	25900	--	0.095 U	0.096 U	0.19 U	**0.016 J**	0.19 U	0.1 U	0.19 U	--	--	--	--
Benzo(a)anthracene	0.0296	--	**0.029 J**	**0.03 J**	0.29 U	**0.046 J**	0.28 U	0.1 U	0.29 U	--	--	--	--
Benzo(a)pyrene	0.0296	--	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.21 U	0.19 U	--	--	--	--
Benzo(b)fluoranthene	0.0296	--	0.095 U	0.096 U	0.39 U	0.099 U	0.38 U	0.1 U	0.38 U	--	--	--	--
Benzo(g,h,i)perylene	--	--	0.095 U	0.096 U	0.29 U	**0.038 J**	0.28 U	0.1 U	0.29 U	--	--	--	--
Benzo(k)fluoranthene	0.0296	--	0.095 U	0.096 U	0.29 U	0.099 U	0.28 U	0.1 U	0.29 U	--	--	--	--

Table 1
Data Gaps Investigation Subsurface Vault and Pit Water and Stormwater Sampling Results

			Outfall 003 Drainage										
Location ID			Outfall 003	Outfall 003	Outfall 003	Forge Shop Manhole	Forge Shop Manhole	Machine Shop Manhole	Machine Shop Manhole	East Machine Shop Roof	East Machine Shop Roof	West Machine Shop Roof	West Machine Shop Roof
Sample ID			AJF-030D-090506	AJF-530D-090506	AJF-030D-090813	AJF-MHFS-090506	AJF-MHFS-090813	AJF-MHMS-090506	AJF-MHMS-090813	AJF-RMSE-090506	AJF-RMSE-090813	AJF-RMSW-090506	AJF-RMSW-090813
Sample Date			5/6/2009	5/6/2009	08/13/2009	5/6/2009	08/13/2009	5/6/2009	08/13/2009	5/6/2009	08/13/2009	5/6/2009	08/13/2009
Description	Source Control Evaluation Screening Levels	NPDES Benchmark Values[d]	Outfall 003 Discharge	Outfall 003 Discharge (Duplicate)	Outfall 003 Discharge	Roof Drain Runoff Entering Subgrade Manhole from Forge Shop	Roof Drain Runoff Entering Subgrade Manhole from Forge Shop	Roof Drain Runoff Entering Subgrade Manhole from Machine Shop	Roof Drain Runoff Entering Subgrade Manhole from Machine Shop	Roof Runoff East Portion of Machine Shop	Roof Runoff East Portion of Machine Shop	Roof Runoff West Portion of Machine Shop	Roof Runoff West Portion of Machine Shop
Chrysene	0.0296	--	**0.079 J**	**0.096 J**	0.19 U	**0.098 J**	0.19 U	**0.024 J**	0.19 U	--	--	--	--
Dibenzo(a,h)anthracene	0.0296	--	0.095 U	0.096 U	0.29 U	0.099 U	0.28 U	0.1 U	0.29 U	--	--	--	--
Fluoranthene	90.2	--	**0.14**	**0.16**	0.24 U	**0.23**	0.24 U	**0.035 J**	0.24 U	--	--	--	--
Fluorene	3460	--	**0.019 J**	**0.025 J**	0.29 U	**0.015 J**	0.28 U	0.1 U	0.29 U	--	--	--	--
Indeno(1,2,3-c,d)pyrene	0.0296	--	0.095 U	0.096 U	0.29 U	0.099 U	0.28 U	0.1 U	0.29 U	--	--	--	--
Naphthalene	49400	--	0.095 U	0.096 U	1.9 U	0.099 U	1.9 U	0.1 U	1.9 U	--	--	--	--
Phenanthrene	--	--	0.095 U	0.096 U	**0.12 J**	**0.089 J**	**0.1 J**	**0.03 J**	0.38 U	--	--	--	--
Pyrene	2590	--	**0.17**	**0.18**	0.29 U	**0.23**	0.28 U	**0.037 J**	**0.052 J**	--	--	--	--
Semi-Volatile Organic Compounds (µg/L)										--	--	--	--
1,2,4-Trichlorobenzene	227	--	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2.1 U	1.9 U	--	--	--	--
1,2-Dichlorobenzene	4200	--	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2.1 U	1.9 U	--	--	--	--
1,3-Dichlorobenzene	--	--	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2.1 U	1.9 U	--	--	--	--
1,4-Dichlorobenzene	4.86	--	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2.1 U	1.9 U	--	--	--	--
2,4-Dimethylphenol	--	--	4.7 U	4.8 U	4.8 U	4.9 U	4.7 U	5.2 U	4.8 U	--	--	--	--
2-Methylphenol (o-Cresol)	--	--	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2.1 U	1.9 U	--	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	--	--	**0.096 J**	3.9 U	**0.14 J**	4 U	3.8 U	4.1 U	3.8 U	--	--	--	--
Benzoic acid	--	--	**11**	9.6 U	**8.4 J**	**12**	**7.2 J**	10 U	**6.2 J**	--	--	--	--
Benzyl alcohol	--	--	**0.17 J**	**0.17 J**	**0.27 J**	**0.16 J**	1.9 U	2.1 U	1.9 U	--	--	--	--
Bis(2-ethylhexyl) phthalate	3.56	--	14 U	14 U	15 U	15 U	14 U	15 U	14 U	--	--	--	--
Butylbenzyl phthalate	1250	--	2.8 U	2.9 U	**1.4 J**	3 U	**1.3 J**	3.1 U	**1.6 J**	--	--	--	--
Dibenzofuran	--	--	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2.1 U	1.9 U	--	--	--	--
Diethyl phthalate	28400	--	1.9 U	**0.073 J**	1.9 U	2 U	1.9 U	2.1 U	1.9 U	--	--	--	--
Dimethyl phthalate	72000	--	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2.1 U	1.9 U	--	--	--	--
Di-n-butyl phthalate	2910	--	1.9 U	1.9 U	1.9 U	2 U	**0.62 J**	2.1 U	1.9 U	--	--	--	--
Di-n-octyl phthalate	--	--	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2.1 U	1.9 U	--	--	--	--
Hexachlorobenzene	0.000466	--	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2.1 U	1.9 U	--	--	--	--
Hexachlorobutadiene	29.9	--	2.8 U	2.9 U	2.9 U	3 U	2.8 U	3.1 U	2.9 U	--	--	--	--
Hexachloroethane	--	--	2.8 U	2.9 U	2.9 U	3 U	2.8 U	3.1 U	2.9 U	--	--	--	--
N-Nitrosodiphenylamine	9.73	--	**0.13 J**	1.9 U	1.9 U	2 U	1.9 U	2.1 U	1.9 U	--	--	--	--
Pentachlorophenol	7.9 [b]	--	**0.3 J**	**0.24 J**	3.4 U	**0.39 J**	3.3 U	3.6 U	3.3 U	--	--	--	--
Phenol		--	2.8 U	2.9 U	**0.35 J**	3.1 U	2.8 UJ	3.0 U	2.9 U	--	--	--	--
Total Petroleum Hydrocarbons (mg/L)													
Diesel #2 Range	10[d]	10	**8.1**	**8.1**	**1.2**	**0.35**	**0.55**	**0.41**	**1.4**	--	--	--	--
Gasoline Range Hydrocarbons	--	--	0.05 U	0.05 U	†	0.05 U	0.05 U	0.05 U	**0.014 J**	--	--	--	--
Motor Oil Range	--	--	**36**	**37**	**2.4**	**1.9**	**0.91**	**1.3**	**3.2**	--	--	--	--
Oil and grease	--	--	--	**11**	5 UJ	--	--	--	--	--	--	--	--

Table 1
Data Gaps Investigation Subsurface Vault and Pit Water and Stormwater Sampling Results

Location ID			Field QA/QC	
Sample ID			AJF-TBW-090506	AJF-TBW-090813
Sample Date			5/6/2009	08/13/2009
Description	Source Control Evaluation Screening Levels	NPDES Benchmark Values[d]	Trip Blank	Trip Blank
Conventional Parameters (µmhos/cm)				
Conductivity	--	--	--	--
Conventional Parameters (su)				
pH	--	5.0 - 9.0	--	--
Conventional Parameters (ntu)				
Turbidity	--	25	--	--
Conventional Parameters (mg/L)				
Hardness as CaCO3	--	--	--	--
Total organic carbon	--	--	--	--
Total Suspended Solids	--	--	--	--
Dissolved Metals (µg/L)				
Arsenic	36 [b]	--	--	--
Cadmium	1.03 [a]	--	--	--
Chromium	10 [a]	--	--	--
Copper	3.1 [b]	--	--	--
Lead	2.52 [a]	--	--	--
Mercury	--	--	--	--
Nickel	8.2 [b]	--	--	--
Silver	25900	--	--	--
Zinc	81 [b]	--	--	--
Total Metals (µg/L)				
Arsenic	--	--	--	--
Cadmium	--	--	--	--
Chromium	--	--	--	--
Copper	--	14	--	--
Lead	--	81.6	--	--
Mercury	0.125 [c]	--	--	--
Nickel	--	--	--	--
Silver	--	--	--	--
Zinc	--	117	--	--
Volatile Organics (µg/L)				
Benzene	22.7	--	1 U	1 U
Ethylbenzene	69100	--	**0.18 J**	1 U
m,p-Xylene	--	--	**0.92 J**	2 U
o-Xylene	--	--	**0.19 J**	1 U
Toluene	48500	--	**0.77 J**	1 U
Polycyclic Aromatic Hydrocarbons (µg/L)				
1-Methylnaphthalene	--	--	--	--
2-Methylnaphthalene	--	--	--	--
Acenaphthene	643	--	--	--
Acenaphthylene	--	--	--	--
Anthracene	25900	--	--	--
Benzo(a)anthracene	0.0296	--	--	--
Benzo(a)pyrene	0.0296	--	--	--
Benzo(b)fluoranthene	0.0296	--	--	--
Benzo(g,h,i)perylene	--	--	--	--
Benzo(k)fluoranthene	0.0296	--	--	--

Table 1
Data Gaps Investigation Subsurface Vault and Pit Water and Stormwater Sampling Results

Location ID			Field QA/QC	
Sample ID			AJF-TBW-090506	AJF-TBW-090813
Sample Date			5/6/2009	08/13/2009
Description	Source Control Evaluation Screening Levels	NPDES Benchmark Values[d]	Trip Blank	Trip Blank
Chrysene	0.0296	--	--	--
Dibenzo(a,h)anthracene	0.0296	--	--	--
Fluoranthene	90.2	--	--	--
Fluorene	3460	--	--	--
Indeno(1,2,3-c,d)pyrene	0.0296	--	--	--
Naphthalene	49400	--	--	--
Phenanthrene	--	--	--	--
Pyrene	2590	--	--	--
Semi-Volatile Organic Compounds (µg/L)				--
1,2,4-Trichlorobenzene	227	--	--	
1,2-Dichlorobenzene	4200	--	--	--
1,3-Dichlorobenzene	--	--	--	--
1,4-Dichlorobenzene	4.86	--	--	--
2,4-Dimethylphenol	--	--	--	--
2-Methylphenol (o-Cresol)	--	--	--	--
3-Methylphenol & 4-Methylphenol (m&p-Cresol)	--	--	--	--
Benzoic acid	--	--	--	--
Benzyl alcohol	--	--	--	--
Bis(2-ethylhexyl) phthalate	3.56	--	--	--
Butylbenzyl phthalate	1250	--	--	--
Dibenzofuran	--	--	--	--
Diethyl phthalate	28400	--	--	--
Dimethyl phthalate	72000	--	--	--
Di-n-butyl phthalate	2910	--	--	--
Di-n-octyl phthalate	--	--	--	--
Hexachlorobenzene	0.000466	--	--	--
Hexachlorobutadiene	29.9	--	--	--
Hexachloroethane	--	--	--	--
N-Nitrosodiphenylamine	9.73	--	--	--
Pentachlorophenol	7.9 [b]	--	--	--
Phenol		--	--	--
Total Petroleum Hydrocarbons (mg/L)				
Diesel #2 Range	10[d]	10	--	--
Gasoline Range Hydrocarbons	--	--	0.05 U	0.05 U
Motor Oil Range	--	--	--	--
Oil and grease	--	--	--	--

Table 1
Data Gaps Investigation Subsurface Vault and Pit Water and Stormwater Sampling Results

Notes:

NPDES	National Pollutant Discharge Elimination System
µmhos/cm	micromhos per centimeter
su	standard units
ntu	nephelometric turbidity nits
mg/L	milligrams per liter
µg/L	micrograms per liter
(yellow)	Detected concentration is greater than Washington State Department of Ecology (Ecology) Model Toxics Cotnrol Act (MTCA) Method B Standard Formula Values for Surface Water screening levels (unless otherwise
(light green)	Detected concentration is greater than Ecology Chronic Water Quality Criteria
(light blue)	Detected concentration is greater than Ecology NPDES Industrial Stormwater General Permit Benchmark Level (Levels effective January 1, 2010)
(orange)	Non-detected concentration is above one or more identified screening levels
a	Screening level from Ecology Freshwater Chronic Water Quality Criteria
b	Screening level from Ecology Marine Chronic Water Quality Criteria
c	Screening level equals Laboratory Practical Detection Limit
d	Screening level from the New NPDES Industrial Stormwater General Permit Benchmark Value dated October 21, 2009
J	Estimated value
U	Compound analyzed, but not detected
†	Analysis not performed
Bold	Detected result
	Level II validation has been applied

REPORT

NPDES ENGINEERING REPORT
INDUSTRIAL STORMWATER GENERAL PERMIT NUMBER WAR003231
JORGENSEN FORGE CORPORATION

Prepared for

Washington State Department of Ecology

Prepared by

Anchor QEA, LLC

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May 2012

Table 2

Outfall 001 Discharge Monitoring Results

Sample Date Quarter Drainage Area	Permit Benchmark Value	3/25/2010 1st 001	4/27/2010 2nd 001	9/26/2010 3rd 001	10/14/2010 4th 001	3/29/2011 1st 001	5/11/2011 2nd 001	9/26/2011 3rd 001	10/10/2011 4th 001	2/29/2012 1st 001
pH	5<pH<9	8.5	8.3	8.12	7.63	6.33	7.8	8.54	8.87	8.8
Turbidity (NTU)	25	1.3	10.1	5.6	2.5	CA	8.3	6.3	56	5.6
Hardness (mg $CaCO_3$/L)[a]	NL	7.2	28	9.4	10	NR	12	22	37	7.8
TPH (mg/L)	10	0.75 U	0.75 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21	0.13	0.2 U
Visible Oil Sheen	No	No	No	No	No	No	No	No	No	No
Copper (µg/L)	14	7	15.5	15.5	7.1	18.5	24.9	163	181	8.8
Lead (µg/L)	81.6	2 U	12	8	3	10.3	14	9	19.8	4.2
Zinc (µg/L)	117	410	234	187	450	450	248	121	228	410

Table 3

Outfall 002 Discharge Monitoring Results

Sample Date Quarter Drainage Area	Permit Benchmark Value	3/25/2010 1st 002	4/27/2010 2nd 002	9/26/2010 3rd 002	10/14/2010 4th 002	3/29/2011 1st 002	5/11/2011 2nd 002	9/26/2011 3rd 002	10/10/2011 4th 002	2/29/2012 1st 002
pH	5<pH<9	8.5	8.3	8.37	7.85	9.08	8.1	9.25	8.24	9.6
Turbidity (NTU)	25	2.8	4.5	3.7	3.9	CA	3.2	3	1.8	13.5
Hardness (mg $CaCO_3$/L)[a]	NL	20	16	30	36	NR	32	47	38	44
TPH (mg/L)	10	0.75 U	0.75 U	0.3 U	0.3 U	0.38	0.42	0.86	0.11	2.49
Visible Oil Sheen	No	No	No	No	No	No	No	No	No	No
Copper(µg/L)	14	46	31	23	26.5	18.7	9.9	13.7	9.6	16.7
Lead (µg/L)	81.6	9.6	4	7	2	2	0.8	0.9	1.5	2.2
Zinc (µg/L)	117	380	262	173	296	166	45	26	39	105

Table 4
Outfall 003 Discharge Monitoring Results

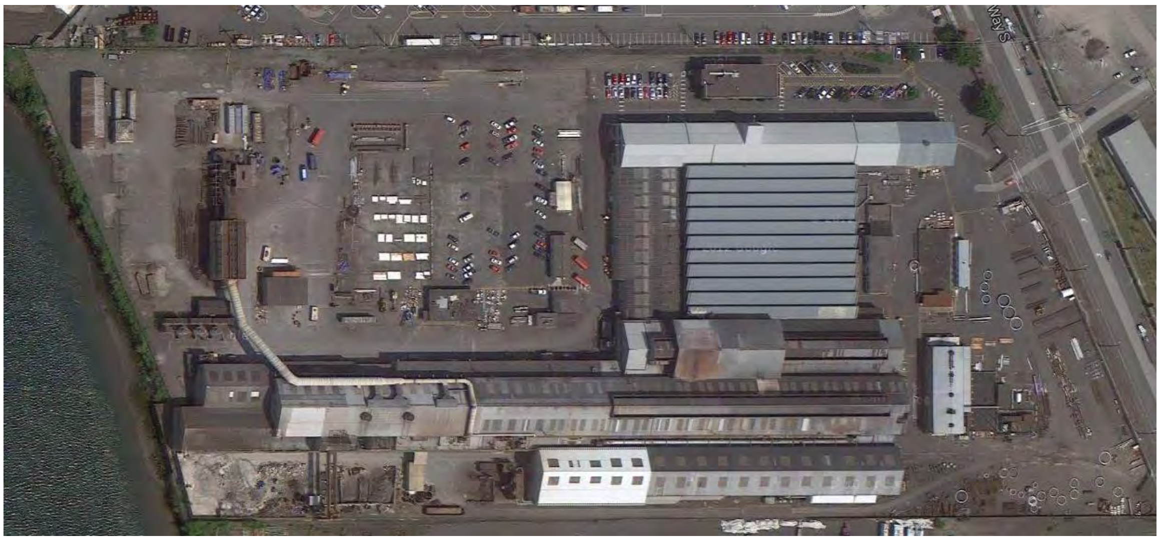
Sample Date Quarter Drainage Area	Permit Benchmark Value	3/25/2010 1st 003	4/27/2010 2nd 003	9/26/2010 3rd 003	10/14/2010 4th 003	3/29/2011 1st 003	5/11/2011 2nd 003	9/26/2011 3rd 003	10/10/2011 4th 003	2/29/2012 1st 003
pH	5<pH<9	8.7	7.8	8.1	7.61	8.13	8.2	8.36	7.17	8.96
Turbidity (NTU)	25	9.1	20	5.6	4.7	CA	41.2	18.8	14.7	51.8
Hardness (mg $CaCO_3$/L)[a]	NL	16	20	18	18	NR	39	26	27	120
TPH (mg/L)	10	0.75 U	0.75 U	2.67	2.14	0.98	0.67	1	0.77	2.9
Visible Oil Sheen	No	No	No	No	No	No	No	No	No	No
Copper (µg/L)	14	42	36	44.2	30.2	18.3	30.8	36	28.4	37.6
Lead (µg/L)	81.6	2 U	4	11	5	3	5.5	4.6	5	11.5
Zinc (µg/L)	117	570	410	440	470	500	340	320	440	450

Notes for Tables 2 through 4:

U Result was non-detect at the given detection limit.
CA Consistent attainment achieved for this parameter per Permit S4.6
NR Not reported
[a] Analysis not required under the Permit
NL Parameter not listed as 303(d) water effluent analyte
(yellow highlight) Exceedance of current Ecology benchmark value

SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

STORMWATER TREATMENT SYSTEM ENGINEERING REPORT



Property:
Jorgensen Forge Corporation
8531 East Marginal Way South
Seattle, Washington

Prepared for:
Jorgensen Forge Corporation
8531 East Marginal Way South
Seattle, Washington

Report Date:
May 15, 2014

rate for an off-line BMP. No additional water is added during the treatment process, and so, the current flows and predicted future flows are equivalent.

This report only covers the pilot-scale phase and not the permanent ATS. The pilot-scale ATS will only be active during the drier summer months and so a different design flow rate will be used. Details are discussed in the Hydraulic Capacity Section.

3.2 TREATMENT SYSTEM WATER QUALITY

The treatment system will be designed to meet the Permit benchmarks. Table 1 shows the results of the quarterly effluent sampling since the ATS was installed in March 2013. Table 1 shows that the existing ATS is not meeting Permit benchmarks. Historically the Property had consistent benchmark exceedances of copper and zinc with the occasional turbidity and pH exceedance. Since the ATS was installed the Property has had consistent benchmark exceedances of copper and zinc with the occasional turbidity and TPH exceedance.

The treatment system will be designed to reduce all of the parameters that have exceeded benchmarks below their benchmark levels.

Table 1 Historical ATS Sampling Results

Quarter	Date	Turbidity	pH	Oil & Grease	Total Copper	Total Zinc	Total Lead	TPH
2013 Q1	1/26/2013	15.5	8.6	No	**24.0**	**270.0**	7.2	0.92
	2/22/2013	**32**	8.85	No	**25.0**	**257.0**	7.7	0.98
	3/7/2013	7.8	8.2	No	11.9	**143.0**	2.1	0.58
	Average	18.4	N/A	N/A	**20.3**	**223.3**	5.7	0.8
2013 Q2	4/7/2013	3.3	7.87	No	11	87	0.9	1.26
	5/21/2013	8.4	8.01	No	**27.3**	**179**	3	1.18
	6/24/2013	4.5	8.28	No	**28.2**	**177**	2.1	1.16
	Average	5.4	N/A	N/A	**22.2**	**147.7**	2.0	1.2
2013 Q3	8/27/2013	1.8	7.7	No	**22.9**	**132**	1.22	1.8
	9/27/2013	4.74	7.49	No	11.1	**184**	1.73	0.67
	Average	3.3	N/A	N/A	**17.0**	**158.0**	1.5	1.2
2013 Q4	10/2/2013	**45.2**	8.21	No	**22.5**	**167**	3.22	**16.7**
	11/14/2013	13.7	8.54	No	13.0	**302**	1.3	8.4
	12/30/2013	6.58	8.10	No	10.1	**314**	1.53	0.57
	Average	10.1	N/A	N/A	**15.2**	**261.0**	2.0	8.6

Quarter	Date	Turbidity	pH	Oil & Grease	Total Copper	Total Zinc	Total Lead	TPH
2014 Q1	1/31/2014	19	6.2	No	**21**	**236**	2.12	**10.7**
	2/18/2014	62	8.77	No	**27.3**	**337**	8.16	0.98
	3/25/2014	8.14	8.99	No	**18.4**	**298**	1.27	6.1
	Average	**29.7**	N/A	N/A	**22.2**	**286.5**	3.9	5.9
Benchmark -->		***25 NTU***	***5-9 SU***	***Yes***	***14 µg/L***	***117 µg/L***	***81.6 µg/L***	***10 mg/L***

NOTES:
BOLD denotes benchmark exceedance.
µg/L = micrograms per liter
ATS = advanced treatment system
mg/L = milligrams per liter
N/A = not applicable
NTU = Nephelometric turbidity units
SU = standard units
TPH = total petroleum hydrocarbons

3.3 CONSERVATION, FLOW REDUCTION, AND POLLUTION PREVENTION

No municipal water will be used in the treatment system. Good housekeeping best management practices (BMP) will be used for pollution prevention. Current BMPs are contained in the SWPPP.

4.0 TREATMENT SYSTEM WATER TECHNOLOGIES ANALYSIS

In order to achieve the most viable and effective method for stormwater treatment and management, several engineering treatment alternatives were compared. Bench-scale tests were used to demonstrate that the project will not adversely impact water quality and show that the approach is protective of water quality and satisfies state and federal water quality laws.

4.1 TREATMENT SYSTEM REQUIREMENTS

In order to determine what type of treatment system is applicable for the Property, technologies that could be used at the Property were identified and compared to the required criteria for the Property. The following criteria were used to evaluate the applicable technologies:

- Approval by Ecology. In order to determine which technologies are Ecology approved, resources from Ecology were used, including the current SWMMWW that identifies suggested stormwater treatment options for industrial yards and Ecology's Guidelines for the Preparation of Industrial Stormwater General Permit Engineering Reports (Ecology 2013).
- Appropriate to the Property, its operations and the anticipated pollutant concentrations.
- Able to meet the Permit benchmarks.
- Able to be implemented at the Property.
- Allow for simple and routine maintenance that can be accomplished by JFC personnel or outside vendors.

4.2 TREATMENT SYSTEM EVALUATION

Based on the above criteria as well as the screening results from the NPDES Engineering Report (Anchor 2012), the following technologies were evaluated but not carried forward:

SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

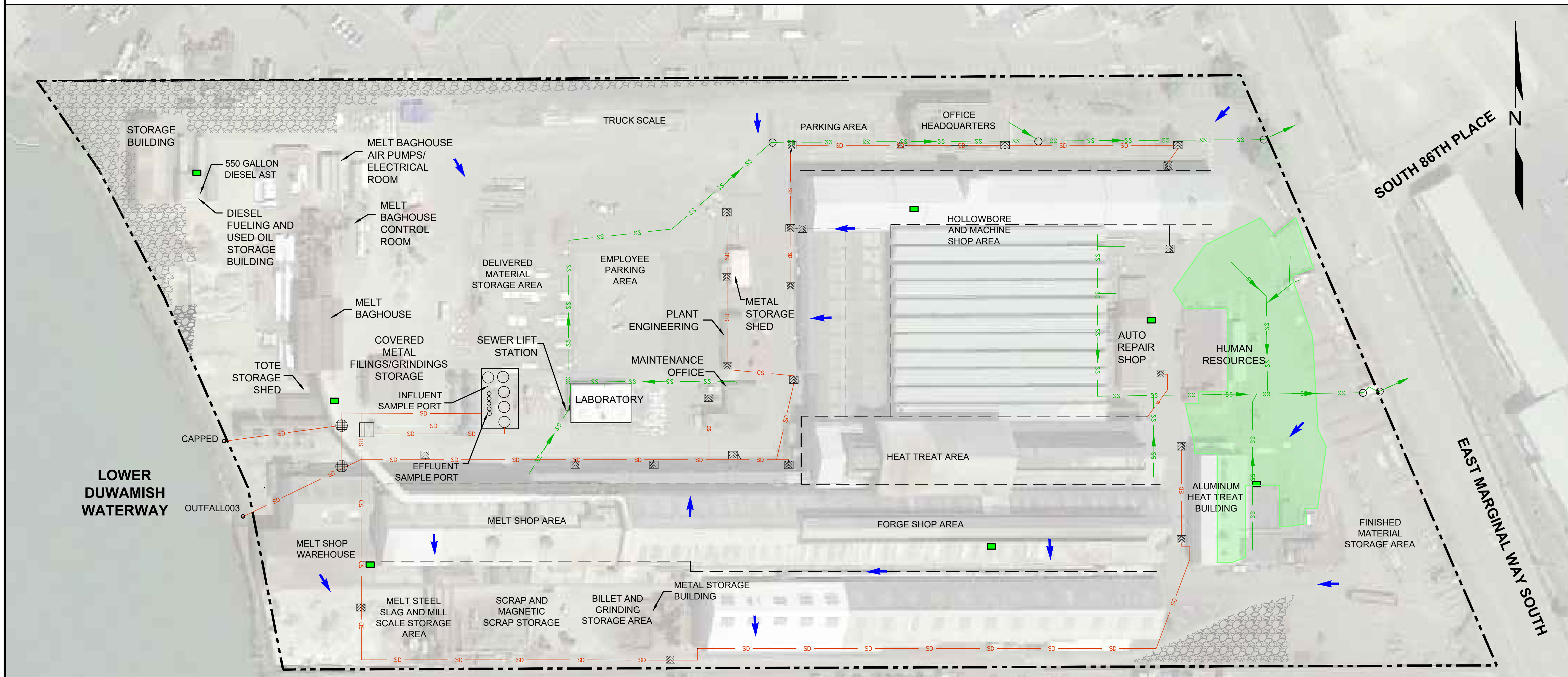
STORMWATER POLLUTION PREVENTION PLAN

PREPARED IN ACCORDANCE WITH THE PROVISIONS OF THE INDUSTRIAL STORMWATER GENERAL PERMIT (January 2015)

Property:
Jorgensen Forge
8531 East Marginal Way South
Seattle, Washington

Prepared for:
Jorgensen Forge Corporation
8531 East Marginal Way South
Seattle, Washington

Report Date:
February 4, 2015



LEGEND

PROPERTY BOUNDARY	GRAVEL SURFACE (PERVIOUS)	SPILL KIT LOCATION
STORMWATER PIPE	SANITARY SEWER DRAINAGE AREA	STORMWATER COLLECTION VAULT
ROOF CONVEYANCE	STORMWATER FLOW ARROW	CATCH BASIN
SANITARY SEWER PIPE AND FLOW DIRECTION		MANHOLE

NOTE:
STRUCTURES AND FEATURES SHOWN ON THIS FIGURE WERE NOT VERIFIED BY SURVEY BY SOUNDEARTH STRATEGIES INC. LOCATIONAL INFORMATION HAS BEEN ADAPTED FROM APPENDIX C OF THE ENGINEERING REPORT DRAFTED BY ANCHOR QEA, LLC.

SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

DATE: 04/08/14
DRAWN BY: JQC/AAE
CHECKED BY: JAC/LMK
CAD FILE: 0995-001-03_SWPPP_FIG2

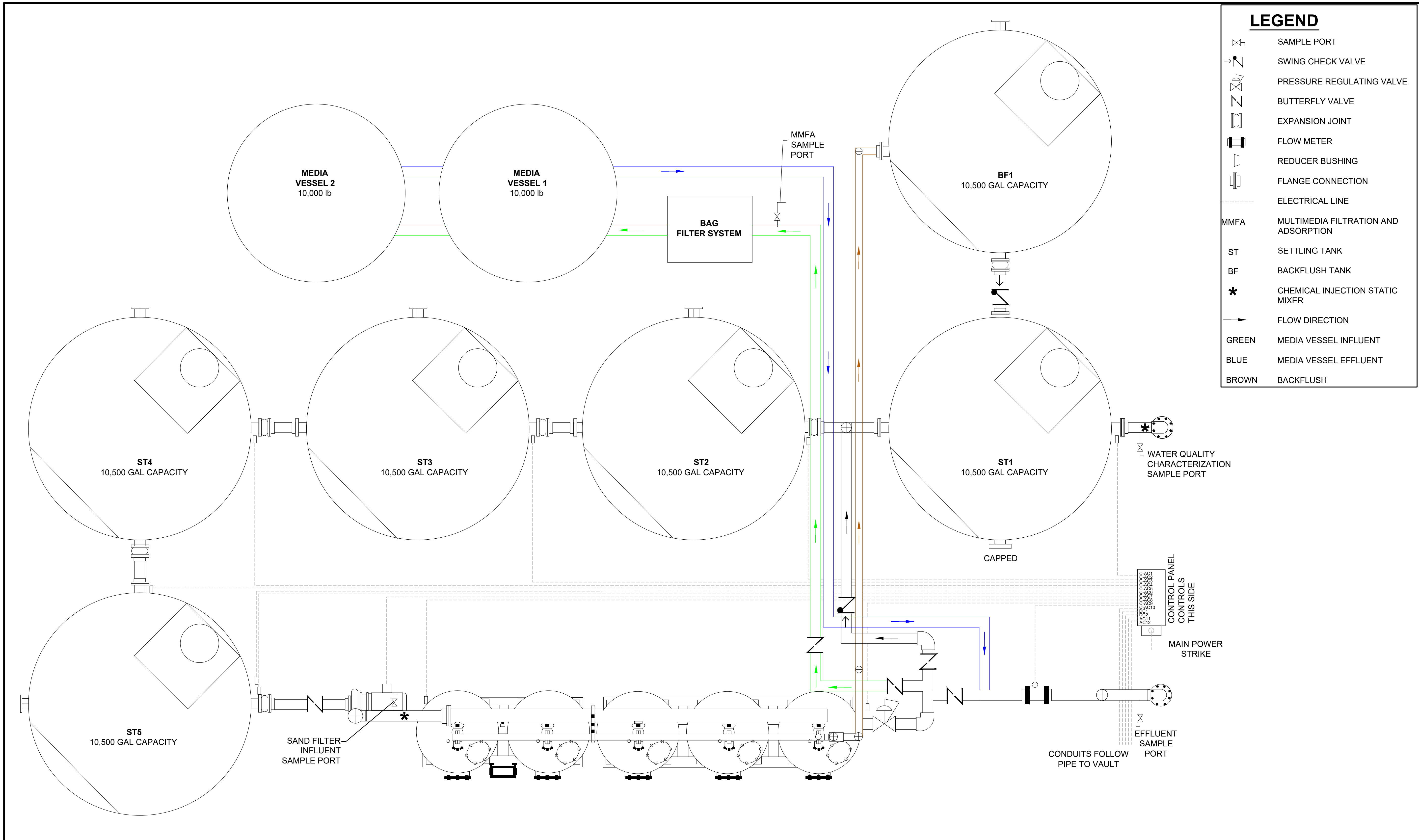
PROJECT NAME: JORGENSEN FORGE
PROJECT NUMBER: 0995-001-03
STREET ADDRESS: 8531 EAST MARGINAL WAY SOUTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 30 60 120 240
APPROXIMATE SCALE IN FEET

FIGURE 2
SITE LAYOUT

4/9/2014
P:\0995 JORGENSEN FORGE CORPORATION\TECHNICAL\CAD\STORMWATER\SWPPP\0995-001-03_SWPPP_FIG2_DFCR.DWG



SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

DATE: 09/09/14
DRAWN BY: BLR
CHECKED BY: LMK
CAD FILE: 0995-001-03_STS

PROJECT NAME: JORGENSEN FORGE CORPORATION
PROJECT NUMBER: 0995-002-02
STREET ADDRESS: 8531 EAST MARGINAL WAY SOUTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

NOT TO SCALE

FIGURE 4
STORMWATER TREATMENT SYSTEM

P:\0995 JORGENSEN FORGE CORPORATION\TECHNICAL\CAD\STORMWATER\SWPPP\0995-001-03_FIG4_STS.DWG
9/9/2014

SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

February 14, 2017

Mr. Miles Dyer
Jorgensen Forge
8531 East Marginal Way South
Tukwila, Washington 98108

SUBJECT: SEMIANNUAL TREATMENT SYSTEM MONITORING REPORT
Jorgensen Forge Facility
8531 East Marginal Way South Tukwila, Washington 98108
Project Number: 0995-002

Dear Mr. Dyer:

This Semiannual Treatment System Monitoring Report (Report) provides a summary of the sampling results collected from the stormwater treatment system at the Jorgensen Forge facility (Jorgensen) from July 2016 through December 2016. SoundEarth Strategies, Inc. (SoundEarth) plans to submit this Report to the Washington State Department of Ecology (Ecology). The initial submittal timelines were shifted because the treatment system was installed later than originally planned. In August 2013, Jorgensen sent Ecology a request to extend the time frame for submittal of the Report. Also, due to changes in Jorgensen personnel and consultants, the complete suite of sampling did not begin until September 2013. The required 6-month period was not complete until February 2014, and results were not fully obtained until early March 2014. Phase 2 installation was not completed until August 2014.

BACKGROUND

The stormwater treatment system Phase 1 installation was completed in March 2013. As described in the Supplemental Monitoring Plan (SMP), "Treatment Phase 2 will be installed only as necessary based on performance of the Phase 1 treatment system as indicated by the sampling results." During the Interim Phase, in accordance with the SMP, it was determined the Phase 1 stormwater treatment system could not meet performance standards; therefore, Jorgensen entered into Treatment Phase 2. Bench-scale testing occurred in March and April 2014. Results from these tests were summarized in the Stormwater Engineering Report dated May 15, 2014. The Phase 2 treatment system final design was determined based on recommendations included in that report. The Phase 2 treatment system treats Jorgensen stormwater by pumping from a central underground vault and through a series of five settling tanks. The water is then pumped through pressurized sand filters, through an inline bag filter fitted with 5-micron filter bags, then through a duplex Multi-Media Filtration and Adsorption (MMFA) unit, as described in the Stormwater Engineering Report, dated May 15, 2014. The final treated water discharges via gravity to Outfall 003. The sand filters backflush automatically, based on differential pressure, and convey the backflush water to a separate backflush settling tank which provides solids separation and overflows via gravity to settling tank 1.

SoundEarth Strategies

Table 1
Summary of Stormwater Analytical Results for PCBs
Jorgensen Forge Corporation
8531 East Marginal Way South
Tukwila, Washington

Location	Sample ID	Sampled By	Sample Date	PCBs[1] (micrograms/liter)									
				Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCBs[2]
Monthly Data													
WQC	JFC_WQC_20160713	SoundEarth	07/13/16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.017	0.017
Influent	--			--									
Effluent	JFC_EFF_20160713			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
WQC	JFC_WQC_20160804	SoundEarth	08/04/16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.022	0.022
Influent	--			--									
Effluent	JFC_EFF_20160804			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
WQC	JFC_WQC_20160902	SoundEarth	09/02/16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.074	0.074
Influent	--			--									
Effluent	JFC_EFF_20160902			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
WQC	JFC_WQC_20161004	SoundEarth	10/04/16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013	0.013
Influent	--			--									
Effluent	JFC_EFF_20161004			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
WQC	JFC_WQC_20161101	SoundEarth	11/01/16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	0.014
Influent	--			--									
Effluent	JFC_EFF_20161101			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
WQC	JFC_WQC_20161209	SoundEarth	12/09/16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Influent	--			--									
Effluent	JFC_EFF_20161209			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Permit Benchmark[3]				--	--	--	--	--	--	--	--	--	--
WAC Criteria[4]				--	--	--	--	--	--	--	--	--	**0.030**
MTCA Criteria[5]				--	--	--	--	--	--	--	--	--	--

NOTES:

Results in **bold** denote concentration that exceeds the Permit benchmark.

[1]Analyzed by EPA Method 8082A.

[2]PCBs are calculated by summing the detected PCB Aroclor concentrations. If no Aroclors are detected, then total PCBs are calculated using values equal to one half the practical quantitation limit for the two Aroclors that were analyzed in the Laboratory Control Sample (1016 and 1260).

[3]Industrial stormwater permit benchmark. To be applied to effluent results only.

[4]WAC 173-201A-240 Table 240(3) Toxics Substances Criteria- Chronic.

[5]MTCA Method B standard formula value for surface water.

LABORATORY DATA QUALIFIERS:

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

[jr]The RPD result in laboratory control sample associated with the analyte is out of control limits. The

-- = not applicable; not analyzed

< = analyte not detected at or above the reporting limit

EFF = Effluent

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

PCB = polychlorinated biphenyls

QA/QC = quality assurance/quality control

RPD = relative percent difference

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code

WQC = Water Quality Characterization

Table 2
Summary of Stormwater Analytical Results for Metals
Jorgensen Forge Corporation
8531 East Marginal Way South
Tukwila, Washington

Location	Sample ID	Sampled By	Sample Date	Metals[1] (µg/L) Arsenic		Cadmium		Chromium		Copper		Lead		Mercury		Nickel		Selenium		Silver		Zinc	
				Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]
Monthly Data																							
WQC	JFC_WQC_20160713	SoundEarth	07/13/16	--	--	--	--	--	--	**98.8**	--	<10	--	--	--	--	--	--	--	--	--	**320**	--
Influent	JFC_INF_20160713			--	--	--	--	--	--	**77.6**	--	<1	--	--	--	--	--	--	--	--	--	**563**	--
Sand Filter Effluent	JFC_SFEFF_20160713			--	--	--	--	--	--	<50	--	<10	--	--	--	--	--	--	--	--	--	**595**	--
Effluent	JFC_EFF_20160713			5.75	6.03	--	--	6.73	4.44	**59.5**	26.7	<5	<1	<5	<1	--	--	--	--	--	--	**681**	<5
Percent Removal[7]				--	--	--	--	--	--	23%	--	-400%	--	--	--	--	--	--	--	--	--	-21%	--
WQC	JFC_WQC_20160804	SoundEarth	08/04/16	--	--	--	--	--	--	9.53	--	1.65[J]	--	--	--	--	--	--	--	--	--	53.7	--
Influent	JFC_INF_20160804			--	--	--	--	--	--	**27.6**	--	0.609	--	--	--	--	--	--	--	--	--	**529**	--
Sand Filter Effluent	JFC_SFEFF_20160804			--	--	--	--	--	--	9.46	--	<0.5	--	--	--	--	--	--	--	--	--	**119**	--
GAC	JFC_GAC_20160804			--	7.36	--	--	--	2.17	9.31	<5	<0.5	<0.5	--	<1	--	--	--	--	--	--	92.8	89.6
Effluent	JFC_EFF_20160804			6.07	5.07	--	--	7.72	1.16	<5	<5	<0.5	0.5	<1	<1	--	--	--	--	--	--	25.0	10.1
Percent Removal[7]				--	--	--	--	--	--	91%	--	59%	--	--	--	--	--	--	--	--	--	95%	--
WQC	JFC_WQC_20160808	SoundEarth	08/08/16	--	--	--	--	--	--	**39.0**	--	--	--	--	--	--	--	--	--	--	--	**1,250**	--
Influent	JFC_INF_20160808			--	--	--	--	--	--	**22.7**	--	--	--	--	--	--	--	--	--	--	--	**463**	--
Sand Filter Effluent	JFC_SFEFF_20160808			--	--	--	--	--	--	8.43	--	--	--	--	--	--	--	--	--	--	--	**162**	--
Effluent	JFC_EFF_20160808			--	--	--	--	--	--	1.28	0.857	--	--	--	--	--	--	--	--	--	--	3.90	4.32
Percent Removal[7]				--	--	--	--	--	--	94%	--	--	--	--	--	--	--	--	--	--	--	99%	--
WQC	JFC_WQC_20160902	SoundEarth	09/02/16	--	--	--	--	--	--	**65.4**	--	29.0	--	--	--	--	--	--	--	--	--	**830**	--
Influent	JFC_INF_20160902			--	--	--	--	--	--	**81.4**	--	44.1	--	--	--	--	--	--	--	--	--	**1,140**	--
Sand Filter Effluent	JFC_SFEFF_20160902			--	--	--	--	--	--	**28.5**	--	2.12	--	--	--	--	--	--	--	--	--	**642**	--
Effluent	JFC_EFF_20160902			7.62	6.46	<0.25	--	6.02	2.90	2.62	2.85	<0.3	<0.3	0.0042	<0.1	16.9	--	--	--	<0.2[j, jl]	--	6.84	5.77
Percent Removal[7]				--	--	--	--	--	--	97%	--	100%	--	--	--	--	--	--	--	--	--	99%	--
WQC	JFC_WQC_20160919	SoundEarth	09/19/16	--	--	--	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	**--**	--
Influent	JFC_INF_20160919			--	--	--	--	--	--	**30.8**	--	--	--	--	--	--	--	--	--	--	--	**727**	--
Sand Filter Effluent	JFC_SFEFF_20160919			--	--	--	--	--	--	**14.5**	--	--	--	--	--	--	--	--	--	--	--	**676**	--
Effluent	JFC_EFF_20160919			--	--	--	--	--	--	<2	--	--	--	--	--	--	--	--	--	--	--	2.73	--
Percent Removal[7]				--	--	--	--	--	--	97%	--	--	--	--	--	--	--	--	--	--	--	100%	--
Permit Benchmark[2]				--	--	--	--	--	--	**14**	**--**	**81.6**	--	--	--	--	--	--	--	--	--	**117**	--
WAC Criteria[3]				--	**36[4]**	--	**9.3[4]**	**--**	**50[4]**	**--**	**3.1[4]**	**--**	**8.1[4]**	**0.125[5]**	--	--	--	**71[4]**	--	--	--	--	**81[4]**
MTCA Criteria[6]				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**25,900**	--	--

SoundEarth Strategies

Table 2
Summary of Stormwater Analytical Results for Metals
Jorgensen Forge Corporation
8531 East Marginal Way South
Tukwila, Washington

				Metals[1] (µg/L)																			
				Arsenic		Cadmium		Chromium		Copper		Lead		Mercury		Nickel		Selenium		Silver		Zinc	
Location	Sample ID	Sampled By	Sample Date	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]	Total	Dissolved[f]
WQC	JFC_WQC_20161004	SoundEarth	10/04/16	--	--	--	--	--	--	**33.9**	--	7.09	--	--	--	--	--	--	--	--	--	**734**	--
Influent	JFC_INF_20161004			--	--	--	--	--	--	**24.8**	--	3.46	--	--	--	--	--	--	--	--	--	**704**	--
Sand Filter Effluent	JFC_SFEFF_20161004			--	--	--	--	--	--	13.5	--	0.900	--	--	--	--	--	--	--	--	--	**551**	--
Effluent	JFC_EFF_20161004			3.81	3.94	<0.25	--	5.50	3.02	<2	<2	<0.5	<0.5	0.0018	<1	11.6	--	--	--	<0.2[j]	--	2.74	2.71
Percent Removal[7]				--	--	--	--	--	--	96%	--	93%	--	--	--	--	--	--	--	--	--	100%	--
WQC	JFC_WQC_20161101	SoundEarth	11/01/16	--	--	--	--	--	--	**22.3**	--	3.25	--	--	--	--	--	--	--	--	--	**309**	--
Influent	JFC_INF_20161101			--	--	--	--	--	--	**17.1**	--	3.65	--	--	--	--	--	--	--	--	--	**377**	--
Sand Filter Effluent	JFC_SFEFF_20161101			--	--	--	--	--	--	9.79	--	0.698	--	--	--	--	--	--	--	--	--	**388**	--
Effluent	JFC_EFF_20161101			0.913	0.936	<0.25	--	2.12	1.36	2.06	<2	<0.5	<0.5	0.0015	<1	1.33	--	--	--	<0.2[j, jl]	--	<2.5	3.69
Percent Removal[7]				--	--	--	--	--	--	88%	--	93%	--	--	--	--	--	--	--	--	--	100%	--
WQC	JFC_WQC_20161209	SoundEarth	12/09/16	--	--	--	--	--	--	**29.0**	--	2.35	--	--	--	--	--	--	--	--	--	**257**	--
Influent	JFC_INF_20161209			--	--	--	--	--	--	**22.0**	--	5.02	--	--	--	--	--	--	--	--	--	**725**	--
Sand Filter Effluent	JFC_SFEFF_20161209			--	--	--	--	--	--	12.9	--	2.07	--	--	--	--	--	--	--	--	--	**739**	--
Effluent	JFC_EFF_20161209			1.62	1.72	<0.25	--	4.69	3.61	2.2	<5	0.733	<1	0.0010	<1	1.66	--	--	--	<0.2[j]	--	3.71	<5
Percent Removal[7]				--	--	--	--	--	--	90%	--	85%	--	--	--	--	--	--	--	--	--	99%	--
Permit Benchmark[2]				--	--	--	--	--	--	**14**	**--**	**81.6**	--	--	--	--	--	--	--	--	--	**117**	--
WAC Criteria[3]				--	**36[4]**	--	**9.3[4]**	**--**	**50[4]**	**--**	**3.1[4]**	**--**	**8.1[4]**	**0.125[5]**	--	--	--	**71[4]**	--	--	--	--	**81[4]**
MTCA Criteria[6]				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**25,900**	--	--

NOTES:

Results in **bold** denote concentration that exceeds the Permit benchmark.

[1]Analyzed by EPA Method 200.8 except for total mercury which is EPA Method 1631E.

[2]Industrial stormwater permit benchmark. To be applied to effluent results only.

[3]WAC 173-201A-240 Table 240(3) Toxics Substances Criteria-Chronic. To be applied to effluent results only.

[4]Marine water criterion. These ambient criteria in the table are for the dissolved fraction. A 4-day average concentration not to be exceeded more than once every 3 years on the average.

[5]The Marine TSC values (0.025 µg/L) are less than the practical detection limit and so the practical detection limit is used. These criteria are based on the total-recoverable fraction. A 4-day average concentration not to be exceeded more than once every 3 years on the average.

[6]MTCA Method B standard formula value for surface water.

[7]For the purposes of calculating percent removal, if a parameter was not detected, then a value equal to one half the laboratory reporting limit is used.

LABORATORY DATA QUALIFIERS:

[f]The samples were laboratory filtered prior to analysis for dissolved metals for dates of 07/13/16, 08/04/16, 08/08/16, 09/02/16, 09/19/16, 10/04/16, 11/01/16, 12/09/16.

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

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

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

-- = not applicable; not analyzed

< = analyte not detected at or above the reporting limit

% = percentage

µg/L = micrograms per liter

EFF = Effluent

EPA = U.S. Environmental Protection Agency

GAC= granular-activated carbon

INF = Influent

MTCA = Washington State Model Toxics Control Act

SFEFF = Sand Filter Effluent

SoundEarth = SoundEarth Strategies, Inc.

TSC= toxics substance criteria

WAC = Washington Administrative Code

WQC= Water Quality Characterization

SoundEarth Strategies

Table 3
Summary of Stormwater Analytical Results
for Bis(2-ethylhexyl) phthalate
Jorgensen Forge Corporation
8531 East Marginal Way South
Tukwila, Washington

Location	Sample ID	Sampled By	Sample Date	Bis(2-ethylhexyl) phthalate[1] (micrograms/liter)
Analysis of Bis (2-ethylhexyl) phthalate suspended after August 2015 sampling event				
Permit Benchmark[2]				--
WAC Criteria[3]				--
MTCA Criteria[4]				--

NOTES:

[1]Analyzed by Method EPA 8270D

[2]Industrial stormwater permit benchmark. To be applied to effluent results only.

[3]WAC 173-201A-240 Table 240(3) Toxics Substances Criteria- Chronic. To be applied to effluent results only.

[4]MTCA Method B standard formula value for surface water.

-- = not applicable

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

WAC = Washington Administrative Code

SoundEarth Strategies

Table 4
Summary of Stormwater Analytical Results for TPH
Jorgensen Forge Corporation
8531 East Marginal Way South
Tukwila, Washington

Location	Sample ID	Sampled By	Sample Date	Total Petroleum Hydrocarbons[1] (micrograms/liter)			
				DRPH	ORPH	DMR Reporting Value for Total TPH [2]	Total TPH Values for Calculating Removal Efficiency[3]
Influent	JFC_INF_20160713	SoundEarth	07/13/16	200[x]	<250	--	450
Effluent	JFC_EFF_20160713			<50	<250	<300	< 300
Percent Removal							33%
Influent	JFC_INF_20160804	SoundEarth	08/04/16	220[x]	<250	--	470
Effluent	JFC_EFF_20160804			<50	<250	<300	< 300
Percent Removal							36%
Influent	JFC_INF_20160902	SoundEarth	09/02/16	890[x]	560[x]	--	1,450
Effluent	JFC_EFF_20160902			55[x]	<250	<305	< 305
Percent Removal							79%
Influent	JFC_INF_20161004	SoundEarth	10/04/16	280[x]	<250	--	530
Effluent	JFC_EFF_20161004			<50	<250	<300	< 300
Percent Removal							43%
Influent	JFC_INF_20161101	SoundEarth	11/01/16	160[x]	<260	--	420
Effluent	JFC_EFF_20161101			<50	<250	<300	< 300
Percent Removal							29%
Influent	JFC_INF_20161209	SoundEarth	12/09/16	210[x]	<250	--	460
Effluent	JFC_EFF_20161209			<50	<250	<300	< 300
Percent Removal							35%
Permit Benchmark[4]				--	--	--	**10,000**
WAC Criteria[5]				--	--	--	--
MTCA Criteria[6]				--	--	--	--

NOTES:

Results in **bold** denote concentration that exceeds the Permit benchmark.

[1]Analyzed by Method NWTPH-Dx.

[2] For the purpose of DMR reporting, the detected concentrations of DRPH and ORPH are added together. If one or more analytes are not detected, then a value equal to the reporting limit is used to calculate the Total TPH value, and the total is qualified with a '<' symbol.

[3] For the purpose of calculating Percent Removal, the detected concentrations of DRPH and ORPH are summed. If DRPH and/or ORPH are not detected, then a value equal to the reporting limit is used to calculate a total value.

[4]Industrial stormwater permit benchmark. To be applied to effluent results only.

[5]WAC 173-201A-240 Table 240(3) Toxics Substances Criteria- Chronic. To be applied to effluent results only.

[6]MTCA Method B standard formula value for surface water.

LABORATORY DATA QUALIFIERS:

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

-- = not applicable

< = less than

% = percentage

DMR = Discharge Monitoring Report

DRPH = diesel-range petroleum hydrocarbons

EFF = Effluent

INF = Influent

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

SoundEarth = SoundEarth Strategies, Inc.

TPH = total petroleum hydrocarbons

WAC = Washington Administrative Code

SoundEarth Strategies

Table 5
Summary of Stormwater Analytical Results for TSS
Jorgensen Forge Corporation
8531 East Marginal Way South
Tukwila, Washington

Location	Sample ID	Sampled By	Sample Date	TSS[1] (milligrams/liter)
Influent	JFC_INF_20160713	SoundEarth	07/13/16	2
Effluent	JFC_EFF_20160713			<1
Percent Removal[5]				75%
Influent	JFC_INF_20160804	SoundEarth	08/04/16	<5
Effluent	JFC_EFF_20160804			<5
Percent Removal[5]				0%
Influent	JFC_INF_20160902	SoundEarth	09/02/16	18
Effluent	JFC_EFF_20160902			2.1
Percent Removal[5]				88%
Influent	JFC_INF_20161004	SoundEarth	10/04/16	2.8
Effluent	JFC_EFF_20161004			<1
Percent Removal[5]				82%
Influent	JFC_INF_20161101	SoundEarth	11/01/16	7.8
Effluent	JFC_EFF_20161101			<1
Percent Removal[5]				94%
Influent	JFC_INF_20161209	SoundEarth	12/09/16	9.2
Effluent	JFC_EFF_20161209			<1
Percent Removal[5]				95%
Permit Benchmark[2]				--
WAC Criteria[3]				--
MTCA Criteria[4]				--

NOTES:
[1]Analyzed by EPA Method 2540D.
[2]Industrial stormwater permit benchmark. To be applied to effluent results only.
[3]WAC 173-201A-240 Table 240(3) Toxics Substances Criteria- Chronic. To be applied to effluent results only.
[4]MTCA Method B standard formula value for surface water.
[5]For the purposes of calculating percent removal, if a value was not detected, then a value equal to one half the laboratory reporting limit is used.

-- = not applicable
< = analyte not detected at or above the reporting limit
% = percentage
EFF = Effluent
EPA = U.S. Environmental Protection Agency
INF = Influent
MTCA = Washington State Model Toxics Control Act
SoundEarth = SoundEarth Strategies, Inc.
TSS = total suspended solids
WAC = Washington Administrative Code

Table 6
Summary of Stormwater Analytical Results for pH
Jorgensen Forge Corporation
8531 East Marginal Way South
Tukwila, Washington

Location	Sampled By	Sample Date	pH (SU)
Influent	SoundEarth	07/13/16	6.65
Effluent			6.64
Influent	SoundEarth	08/04/16	6.93
Effluent			6.49
Influent	SoundEarth	09/02/16	7.30
Effluent			6.77
Influent	SoundEarth	10/04/16	7.27
Effluent			7.01
Influent	SoundEarth	11/01/16	7.77
Effluent			7.93
Influent	SoundEarth	12/09/16	8.22
Effluent			8.51
Permit Benchmark[(1)]			**5–9**

NOTES:
Results in **bold** denote concentration that exceeds the Permit benchmark.
[(1)]Industrial stormwater permit benchmark. To be applied to effluent results only.
SoundEarth = SoundEarth Strategies, Inc.
SU = standard units

Table 7
Summary of Stormwater Analytical Results for Turbidity
Jorgensen Forge Corporation
8531 East Marginal Way South
Tukwila, Washington

Location	Sampled By	Sample Date	Turbidity (NTU)
WQC	SoundEarth	7/13/16	3.7
Influent			1.1
Effluent			0.7
Percent Removal[2]			36%
WQC	SoundEarth	8/4/16	8.8
Influent			1.8
Effluent			1.3
Percent Removal[2]			28%
WQC	SoundEarth	9/2/16	10
Influent			13
Effluent			0.9
Percent Removal[2]			93%
WQC	SoundEarth	10/4/16	7.0
Influent			4.4
Effluent			1.5
Percent Removal[2]			66%
WQC	SoundEarth	11/1/16	9.3
Influent			5.4
Effluent			<0.5
Percent Removal[2]			95%
WQC	SoundEarth	12/9/16	12
Influent			13
Effluent			2.8
Percent Removal[2]			78%
Permit Benchmark[1]			**25**

NOTES:
Results in **bold** denote concentration that exceeds the Permit benchmark.
[1]Industrial stormwater permit benchmark. To be applied to effluent results only.
[2]For the purposes of calculating percent removal, if a value was not detected, then a value equal to one half the laboratory reporting limit is used.

% = percentage
NTU = nephelometric turbidity unit
SoundEarth = SoundEarth Strategies, Inc.
WQC = water quality characterization

Table 8
Summary of Stormwater Analytical Results for Visible Oil Sheen
Jorgensen Forge Corporation
8531 East Marginal Way South
Tukwila, Washington

Location	Sampled By	Sample Date	Oil sheen (Yes/No)
Influent	SoundEarth	07/13/16	No
Effluent			No
Influent	SoundEarth	08/04/16	No
Effluent			No
Influent	SoundEarth	09/02/16	No
Effluent			No
Influent	SoundEarth	10/04/16	No
Effluent			No
Influent	SoundEarth	11/01/16	No
Effluent			No
Influent	SoundEarth	12/09/16	No
Effluent			No
Permit Benchmark(1)			**Yes**

NOTES:

Results in **bold** denote concentration that exceeds the Permit benchmark.

(1)Industrial stormwater permit benchmark. To be applied to effluent results only.

SoundEarth = SoundEarth Strategies, Inc.

Table 9
Summary of Stormwater Treatment System Details
Jorgensen Forge Corporation
8531 East Marginal Way South
Tukwila, Washington

Location	Sample Date	Flow (gallons)	Filter Pressure (psi)	Flow Rate (gpm)	Bag Filter Pressure (psi)	GAC Pressure A (psi)	GAC Pressure B (psi)
Influent	07/13/16	29,062,516	45	515	38	31	16
Effluent		34,723,091	44	606 to 636	32	18	9
Influent	08/04/16	29,117,907	45	515	39	32	17
Effluent		34,774,124	45	655	33	18	10
Influent	08/08/16	29,124,421	45	517	38	32	16
Effluent		34,781,006	45	657	33	18	10
Influent	09/02/16	29,184,351	49	510	40	30	18
Effluent		34,841,567	49	655	33	20	10
Influent	09/19/16	29,291,102	40	not recorded while system was running	39	29	15
Effluent		34,956,290	40	~600	30	17	8
Influent	10/04/16	29,322,437	48	~500	40	32	16
Effluent		34,987,451	46	~600	32	18	9
Influent	11/01/16	31,617,981	56	520	50	42	16
Effluent		37,280,918	56	615	42	17	8
Influent	12/09/16	33,691,519	55	322	49	46	17
Effluent		39,356,083	55	620	46	19	9

NOTES:

GAC = granular-activated carbon

gpm = gallons per minute

psi = pounds per square inch

ATTACHMENT D-7

SB3/SB4 Upland Interim Action Figures

APPENDIX D: EXCERPTS FROM PREVIOUS REPORTS

SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

December 10, 2013

Mr. Miles Dyer
Jorgensen Forge Corporation
8531 East Marginal Way South
Seattle, Washington 98108

SUBJECT: INTERIM ACTION REPORT
SB3/SB4 Upland Interim Action
Jorgensen Forge Corporation
8531 East Marginal Way South
Seattle, Washington
First Amendment to Agreed Order No. DE 4127

Dear Mr. Dyer:

On behalf of Jorgensen Forge Corporation (JFC), SoundEarth Strategies, Inc. (SoundEarth) has prepared this Interim Action Report (IAR) for upland interim action conducted in at the JFC Property, located at 8531 East Marginal Way South in Seattle, Washington (the Site; Figure 1). This IAR was prepared pursuant to Washington State Department of Ecology's (Ecology) First Amendment to Agreed Order No. DE 4127, effective July 8, 2013. The IAR was prepared in general accordance with the Washington State Model Toxics Control Act promulgated in the Washington Administrative Code Chapter 173-340-350 (WAC 173-340-430).

The upland interim action was performed in accordance with the Interim Action Work Plan (IAWP) in preparation for a planned shoreline bank removal action to be completed within the adjacent Lower Duwamish Waterway (LDW) Superfund Site (Figure 2). Ecology is the lead agency overseeing JFC's investigation and remediation of the upland environment. U.S. Environmental Protection Agency (EPA) is the lead agency overseeing the investigation and removal actions within the LDW Superfund Site. The Jorgensen Forge Property and a portion of the adjacent LDW are depicted on Figure 2.

The following sections of this IAR present the project background, purpose and scope, methodology, description of the work, sampling results, results of data validation, description of variations from the work plan, closure, and limitations. Attachments to this IAR include tabulated data, maps, and laboratory analytical reports.

BACKGROUND

Agreed Order No. DE 4127 (2007 Order) required JFC to conduct a source control evaluation to determine if the JFC Property is an ongoing source of contamination to sediments in the LDW. The resulting Source Control Evaluation Report (SCER) documented concentrations of polychlorinated biphenyls (PCBs) and metals in upland soil exceeding Washington State Sediment Management Standards (SMS) Sediment Quality Standards (SQS) criteria (WAC 173-204-320) within two upland areas

LEGEND

PROPERTY BOUNDARY (PLS, 2003)

3286 SURVEY CONTROL POINT (AQEA 2013; PLS 2003)

MLLW MEAN LOWER LOW WATER

NOTES:

1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83 FEET
2. VERTICAL DATUM: MLLW

REFERENCES:

ANCHOR QEA, LLC (AQEA), 2013. BID SET DRAWINGS, JORGENSEN FORGE EARLY ACTION AREA, SEATTLE, WA. MAY.

GOOGLE EARTH, 2012. AERIAL MAP. JULY 5.

PROFESSIONAL LAND SURVEYORS, INC. (PLS), 2003. PROPERTY SURVEY. AUGUST 22.

SURVEY CONTROL POINTS (AQEA 2013; PLS 2003)

POINT NO.	NORTHING	EASTING	ELEVATION (MLLW)
1	195688.69	1277167.71	18.18
4	195719.17	1276650.21	18.36
9	194654.89	1276620.80	18.18
13	195689.79	1277162.27	18.22
16	195727.17	1276293.70	18.02
22	195609.06	1275931.45	18.32
103	195570.2	1275948.1	21.50
111	195432.7	1275997.7	20.92
3286	195378.09	1276003.93	18.79

SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

DATE: 11/20/13
DRAWN BY: BLR
CHECKED BY: DHG
CAD FILE: 0995-001-03_2013_F2_PROP

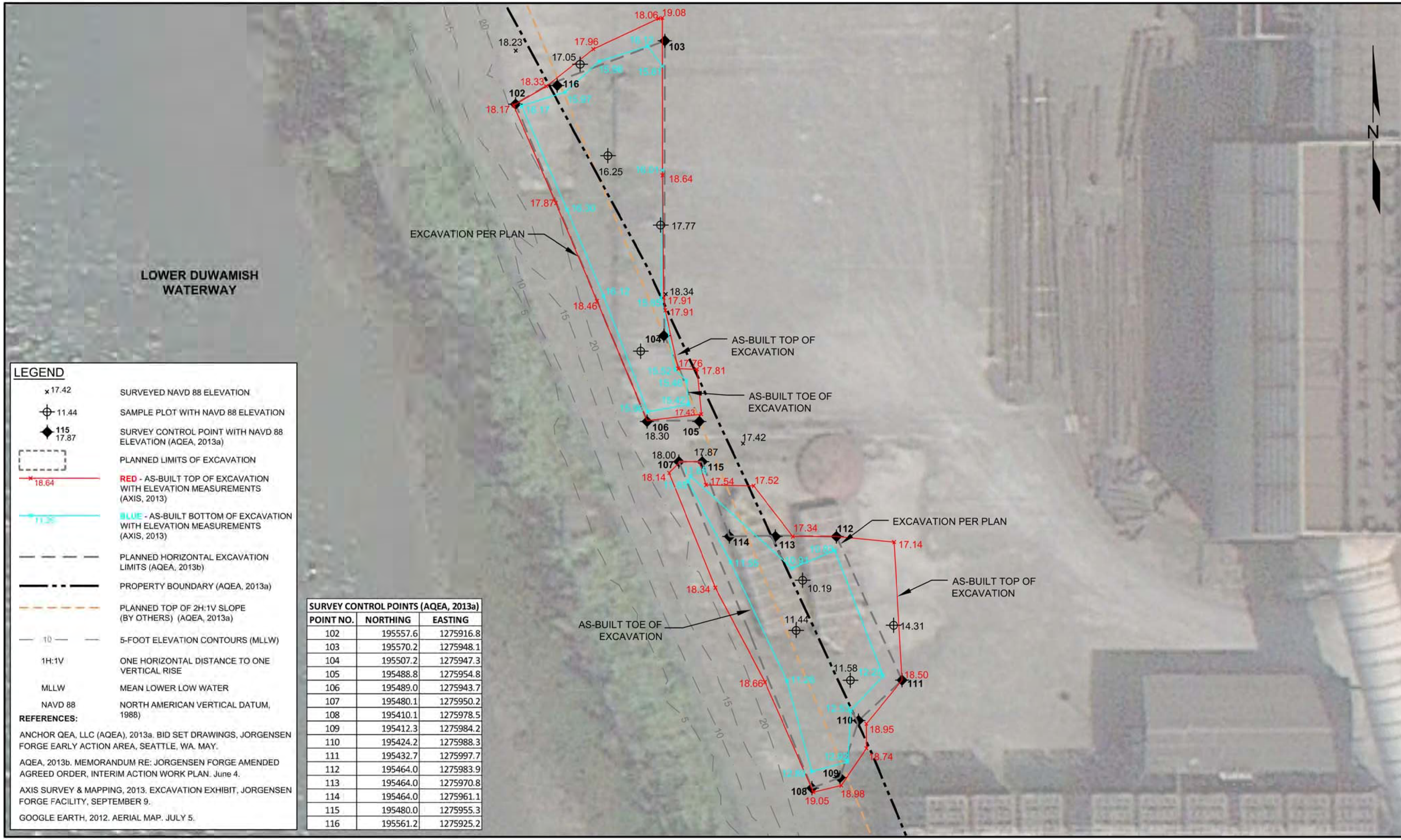
PROJECT NAME: SB3/SB4 UPLAND INTERIM ACTION
PROJECT NUMBER: 0995-001-03
STREET ADDRESS: 8531 EAST MARGINAL WAY SOUTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 30 60 120 240
APPROXIMATE SCALE IN FEET

FIGURE 2
PROPERTY FEATURES MAP

P:\0995 JORGENSEN FORGE CORPORATION\TECHNICAL\CAD\SB3SB4\0995-001-03_2013_F2_PROP_F.DWG 11/20/2013



LEGEND

× 17.42	SURVEYED NAVD 88 ELEVATION
⌖ 11.44	SAMPLE PLOT WITH NAVD 88 ELEVATION
◆ 115 17.87	SURVEY CONTROL POINT WITH NAVD 88 ELEVATION (AQEA, 2013a)
	PLANNED LIMITS OF EXCAVATION
18.64	RED - AS-BUILT TOP OF EXCAVATION WITH ELEVATION MEASUREMENTS (AXIS, 2013)
11.26	BLUE - AS-BUILT BOTTOM OF EXCAVATION WITH ELEVATION MEASUREMENTS (AXIS, 2013)
	PLANNED HORIZONTAL EXCAVATION LIMITS (AQEA, 2013b)
	PROPERTY BOUNDARY (AQEA, 2013a)
	PLANNED TOP OF 2H:1V SLOPE (BY OTHERS) (AQEA, 2013a)
10	5-FOOT ELEVATION CONTOURS (MLLW)
1H:1V	ONE HORIZONTAL DISTANCE TO ONE VERTICAL RISE
MLLW	MEAN LOWER LOW WATER
NAVD 88	NORTH AMERICAN VERTICAL DATUM, 1988)

REFERENCES:

ANCHOR QEA, LLC (AQEA), 2013a. BID SET DRAWINGS, JORGENSEN FORGE EARLY ACTION AREA, SEATTLE, WA. MAY.

AQEA, 2013b. MEMORANDUM RE: JORGENSEN FORGE AMENDED AGREED ORDER, INTERIM ACTION WORK PLAN. June 4.

AXIS SURVEY & MAPPING, 2013. EXCAVATION EXHIBIT, JORGENSEN FORGE FACILITY, SEPTEMBER 9.

GOOGLE EARTH, 2012. AERIAL MAP. JULY 5.

SURVEY CONTROL POINTS (AQEA, 2013a)

POINT NO.	NORTHING	EASTING
102	195557.6	1275916.8
103	195570.2	1275948.1
104	195507.2	1275947.3
105	195488.8	1275954.8
106	195489.0	1275943.7
107	195480.1	1275950.2
108	195410.1	1275978.5
109	195412.3	1275984.2
110	195424.2	1275988.3
111	195432.7	1275997.7
112	195464.0	1275983.9
113	195464.0	1275970.8
114	195464.0	1275961.1
115	195480.0	1275955.3
116	195561.2	1275925.2

SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

DATE: 12/06/13
DRAWN BY: NAC
CHECKED BY: DHG
CAD FILE: 0995-001-03_2013_EXC

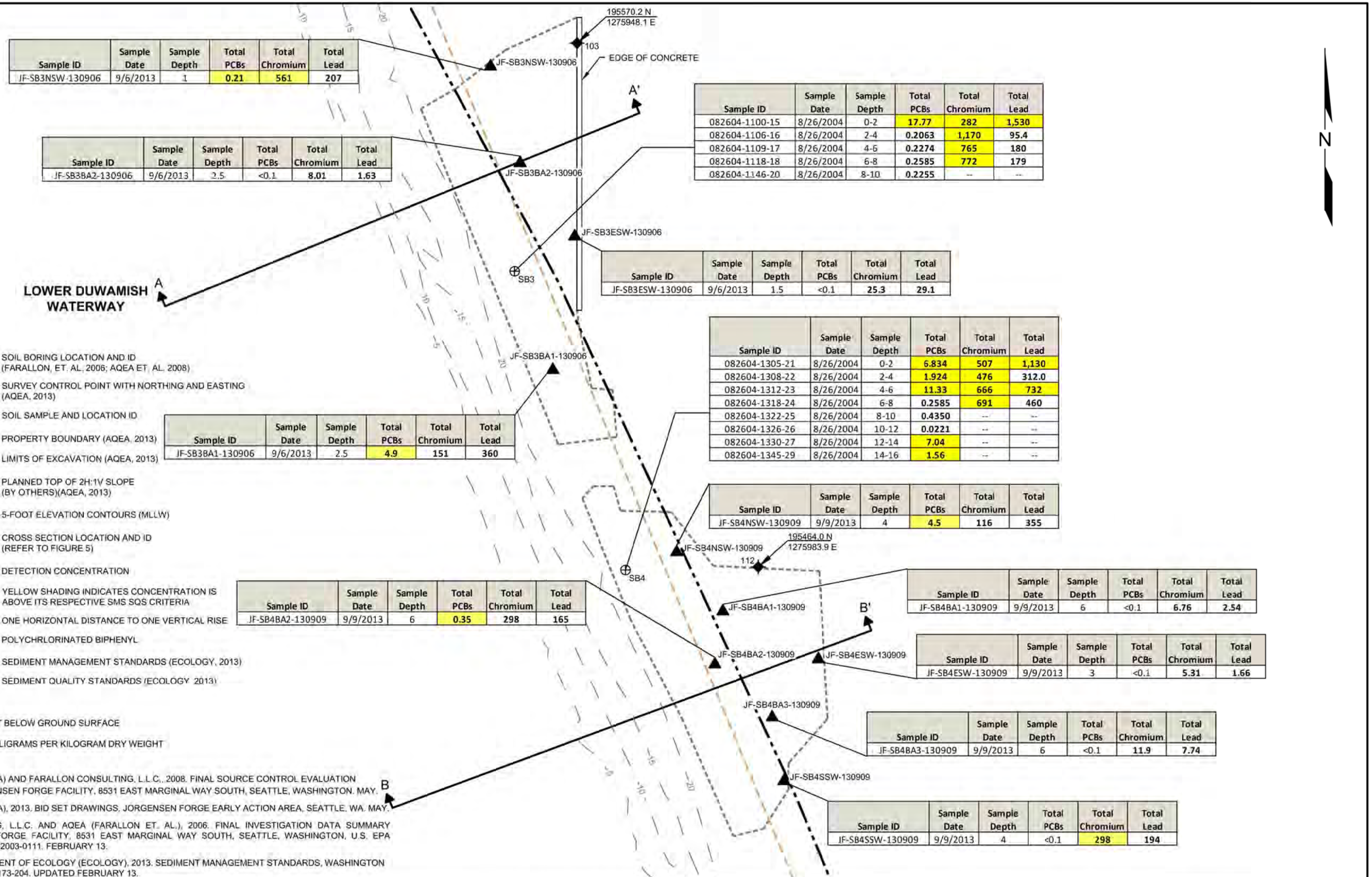
PROJECT NAME: SB3/SB4 UPLAND INTERIM ACTION
PROJECT NUMBER: 0995-001-03
STREET ADDRESS: 8531 EAST MARGINAL WAY SOUTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 10 20 40
APPROXIMATE SCALE IN FEET

FIGURE 3
EXCAVATION PLAN

P:\0995 JORGENSEN FORGE CORPORATION\TECHNICAL\CAD\SB3SB4\0995-001-03_2013_EXC_F.DWG 12/6/2013



Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
JF-SB3NSW-130906	9/6/2013	1	**0.21**	**561**	**207**

Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
JF-SB3BA2-130906	9/6/2013	2.5	<0.1	**8.01**	**1.63**

Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
082604-1100-15	8/26/2004	0-2	**17.77**	**282**	**1,530**
082604-1106-16	8/26/2004	2-4	**0.2063**	**1,170**	**95.4**
082604-1109-17	8/26/2004	4-6	**0.2274**	**765**	**180**
082604-1118-18	8/26/2004	6-8	**0.2585**	**772**	**179**
082604-1146-20	8/26/2004	8-10	**0.2255**	--	--

Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
JF-SB3ESW-130906	9/6/2013	1.5	<0.1	**25.3**	**29.1**

Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
082604-1305-21	8/26/2004	0-2	**6.834**	**507**	**1,130**
082604-1308-22	8/26/2004	2-4	**1.924**	**476**	**312.0**
082604-1312-23	8/26/2004	4-6	**11.33**	**666**	**732**
082604-1318-24	8/26/2004	6-8	**0.2585**	**691**	**460**
082604-1322-25	8/26/2004	8-10	**0.4350**	--	--
082604-1326-26	8/26/2004	10-12	**0.0221**	--	--
082604-1330-27	8/26/2004	12-14	**7.04**	--	--
082604-1345-29	8/26/2004	14-16	**1.56**	--	--

Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
JF-SB3BA1-130906	9/6/2013	2.5	**4.9**	**151**	**360**

Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
JF-SB4NSW-130909	9/9/2013	4	**4.5**	**116**	**355**

Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
JF-SB4BA2-130909	9/9/2013	6	**0.35**	**298**	**165**

Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
JF-SB4BA1-130909	9/9/2013	6	<0.1	**6.76**	**2.54**

Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
JF-SB4ESW-130909	9/9/2013	3	<0.1	**5.31**	**1.66**

Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
JF-SB4BA3-130909	9/9/2013	6	<0.1	**11.9**	**7.74**

Sample ID	Sample Date	Sample Depth	Total PCBs	Total Chromium	Total Lead
JF-SB4SSW-130909	9/9/2013	4	<0.1	**298**	**194**

LEGEND

SB4	SOIL BORING LOCATION AND ID (FARALLON, ET. AL. 2006; AQEA ET. AL. 2008)
103 195570.2 N 1275948.1 E	SURVEY CONTROL POINT WITH NORTHING AND EASTING (AQEA, 2013)
JF-SB4ESW-130909	SOIL SAMPLE AND LOCATION ID
	PROPERTY BOUNDARY (AQEA, 2013)
	LIMITS OF EXCAVATION (AQEA, 2013)
	PLANNED TOP OF 2H:1V SLOPE (BY OTHERS)(AQEA, 2013)
10	5-FOOT ELEVATION CONTOURS (MLLW)
B B'	CROSS SECTION LOCATION AND ID (REFER TO FIGURE 5)
BOLD	DETECTION CONCENTRATION
	YELLOW SHADING INDICATES CONCENTRATION IS ABOVE ITS RESPECTIVE SMS SQS CRITERIA
1H:1V	ONE HORIZONTAL DISTANCE TO ONE VERTICAL RISE
PCB	POLYCHLRORINATED BIPHENYL
SMS	SEDIMENT MANAGEMENT STANDARDS (ECOLOGY, 2013)
SQS	SEDIMENT QUALITY STANDARDS (ECOLOGY, 2013)

NOTES:

1. ALL DEPTHS IN FEET BELOW GROUND SURFACE
2. ALL RESULTS IN MILLIGRAMS PER KILOGRAM DRY WEIGHT

REFERENCES:

ANCHOR QEA, LLC (AQEA) AND FARALLON CONSULTING, L.L.C., 2008. FINAL SOURCE CONTROL EVALUATION REPORT [SCER], JORGENSEN FORGE FACILITY, 8531 EAST MARGINAL WAY SOUTH, SEATTLE, WASHINGTON. MAY.

ANCHOR QEA, LLC (AQEA), 2013. BID SET DRAWINGS, JORGENSEN FORGE EARLY ACTION AREA, SEATTLE, WA. MAY.

FARALLON CONSULTING, L.L.C. AND AQEA (FARALLON ET. AL.), 2006. FINAL INVESTIGATION DATA SUMMARY REPORT, JORGENSEN FORGE FACILITY, 8531 EAST MARGINAL WAY SOUTH, SEATTLE, WASHINGTON, U.S. EPA DOCKET NO. CERCLA 10-2003-0111. FEBRUARY 13.

WASHINGTON DEPARTMENT OF ECOLOGY (ECOLOGY), 2013. SEDIMENT MANAGEMENT STANDARDS, WASHINGTON ADMINISTRATIVE CODE 173-204. UPDATED FEBRUARY 13.

SoundEarth Strategies
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DATE: 12/06/13
DRAWN BY: BLR
CHECKED BY: DHG
CAD FILE: 0995-001-03_2013_EL

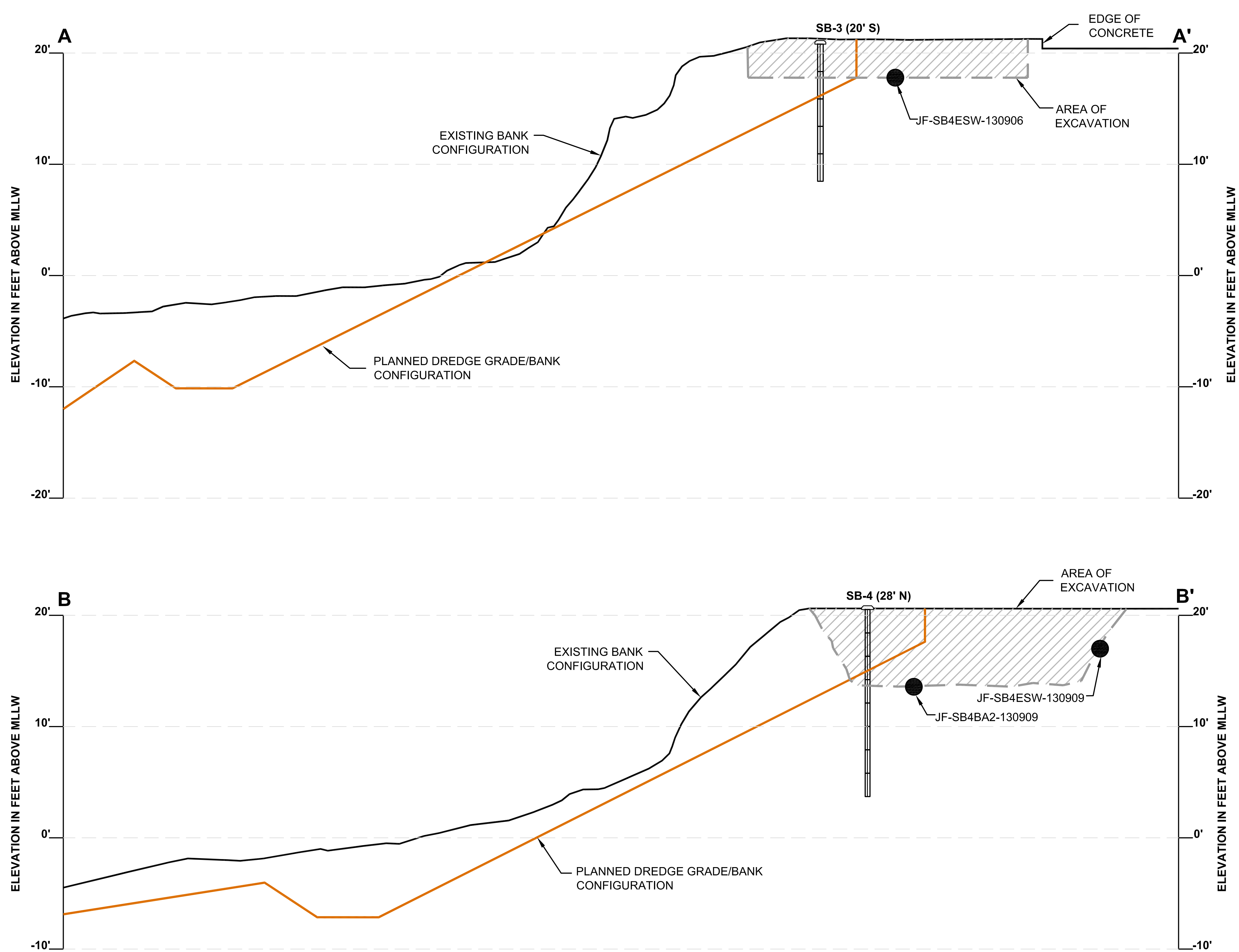
PROJECT NAME: SB3/SB4 UPLAND INTERIM ACTION
PROJECT NUMBER: 0995-001-03
STREET ADDRESS: 8531 EAST MARGINAL WAY SOUTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 10 20 40
APPROXIMATE SCALE IN FEET

FIGURE 4
LIMITS OF EXCAVATIOIN AND SAMPLE LOCATION MAP

12/6/2013
P:\0995 JORGENSEN FORGE CORPORATION\TECHNICAL\CAD\SB3SB4\0995-001-03_2013_EL_F.DWG



LEGEND

LIMITS OF INTERIM ACTION EXCAVATION

EXISTING TOPOGRAPHY

PLANNED 2H:1V SLOPE (AQEA, 2013)

AREA OF EXCAVATION

SB-4 (28' N) BORING (TRANSPOSED 28' NORTH)

SAMPLE INTERVAL

AQEA ANCHOR QEA, LLC

NOTES:

1. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).
2. EXISTING TOPOGRAPHY CREATED FROM A MERGE OF SURVEY DATA FROM AQEA INCLUDING UPLAND SURVEY BY PLS INC. (1/24/12). BATHYMETRIC SURVEY BY ETRAC (2/8/12), BANK SURVEY BY AEC CONSULTANTS INC. (2/21/12), AND ADDITIONAL BANK SURVEY BY DUANE HARTMAN & ASSOCIATES, INC. (10/25/12).

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DATE: 12/06/13
DRAWN BY: BLR
CHECKED BY: DHG
CAD FILE: 0995-001-03_2013_XS

PROJECT NAME: SB3/SB4 UPLAND INTERIM ACTION
PROJECT NUMBER 0995-001-03
STREET ADDRESS: 8531 EAST MARGINAL WAY SOUTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 5 10 20
APPROXIMATE SCALE IN FEET

FIGURE 5
CROSS SECTIONS A-A' AND B-B'

12/6/2013
P:\0995 JORGENSEN FORGE CORPORATION\TECHNICAL\CAD\SB3SB4\0995-001-03_2013_XS_F.DWG

Appendices E, F, G, and H are provided within a separate PDF (Part 2).

Important Information

About Your Geotechnical/Environmental Report

IMPORTANT INFORMATION

IMPORTANT INFORMATION

CONSULTING SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES AND FOR SPECIFIC CLIENTS.

Consultants prepare reports to meet the specific needs of specific individuals. A report prepared for a civil engineer may not be adequate for a construction contractor or even another civil engineer. Unless indicated otherwise, your consultant prepared your report expressly for you and expressly for the purposes you indicated. No one other than you should apply this report for its intended purpose without first conferring with the consultant. No party should apply this report for any purpose other than that originally contemplated without first conferring with the consultant.

THE CONSULTANT'S REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

A geotechnical/environmental report is based on a subsurface exploration plan designed to consider a unique set of project-specific factors. Depending on the project, these may include the general nature of the structure and property involved; its size and configuration; its historical use and practice; the location of the structure on the site and its orientation; other improvements such as access roads, parking lots, and underground utilities; and the additional risk created by scope-of-service limitations imposed by the client. To help avoid costly problems, ask the consultant to evaluate how any factors that change subsequent to the date of the report may affect the recommendations. Unless your consultant indicates otherwise, your report should not be used (1) when the nature of the proposed project is changed (for example, if an office building will be erected instead of a parking garage, or if a refrigerated warehouse will be built instead of an unrefrigerated one, or chemicals are discovered on or near the site); (2) when the size, elevation, or configuration of the proposed project is altered; (3) when the location or orientation of the proposed project is modified; (4) when there is a change of ownership; or (5) for application to an adjacent site. Consultants cannot accept responsibility for problems that may occur if they are not consulted after factors that were considered in the development of the report have changed.

SUBSURFACE CONDITIONS CAN CHANGE.

Subsurface conditions may be affected as a result of natural processes or human activity. Because a geotechnical/environmental report is based on conditions that existed at the time of subsurface exploration, construction decisions should not be based on a report whose adequacy may have been affected by time. Ask the consultant to advise if additional tests are desirable before construction starts; for example, groundwater conditions commonly vary seasonally.

Construction operations at or adjacent to the site and natural events such as floods, earthquakes, or groundwater fluctuations may also affect subsurface conditions and, thus, the continuing adequacy of a geotechnical/environmental report. The consultant should be kept apprised of any such events and should be consulted to determine if additional tests are necessary.

MOST RECOMMENDATIONS ARE PROFESSIONAL JUDGMENTS.

Site exploration and testing identifies actual surface and subsurface conditions only at those points where samples are taken. The data were extrapolated by your consultant, who then applied judgment to render an opinion about overall subsurface conditions. The actual interface between materials may be far more gradual or abrupt than your report indicates. Actual conditions in areas not sampled may differ from those predicted in your report. While nothing can be done to prevent such situations, you and your consultant can work together to help reduce their impacts. Retaining

IMPORTANT INFORMATION

your consultant to observe subsurface construction operations can be particularly beneficial in this respect.

A REPORT'S CONCLUSIONS ARE PRELIMINARY.

The conclusions contained in your consultant's report are preliminary, because they must be based on the assumption that conditions revealed through selective exploratory sampling are indicative of actual conditions throughout a site. Actual subsurface conditions can be discerned only during earthwork; therefore, you should retain your consultant to observe actual conditions and to provide conclusions. Only the consultant who prepared the report is fully familiar with the background information needed to determine whether or not the report's recommendations based on those conclusions are valid and whether or not the contractor is abiding by applicable recommendations. The consultant who developed your report cannot assume responsibility or liability for the adequacy of the report's recommendations if another party is retained to observe construction.

THE CONSULTANT'S REPORT IS SUBJECT TO MISINTERPRETATION.

Costly problems can occur when other design professionals develop their plans based on misinterpretation of a geotechnical/environmental report. To help avoid these problems, the consultant should be retained to work with other project design professionals to explain relevant geotechnical, geological, hydrogeological, and environmental findings, and to review the adequacy of their plans and specifications relative to these issues.

BORING LOGS AND/OR MONITORING WELL DATA SHOULD NOT BE SEPARATED FROM THE REPORT.

Final boring logs developed by the consultant are based upon interpretation of field logs (assembled by site personnel), field test results, and laboratory and/or office evaluation of field samples and data. Only final boring logs and data are customarily included in geotechnical/environmental reports. These final logs should not, under any circumstances, be redrawn for inclusion in architectural or other design drawings, because drafters may commit errors or omissions in the transfer process.

To reduce the likelihood of boring log or monitoring well misinterpretation, contractors should be given ready access to the complete geotechnical engineering/environmental report prepared or authorized for their use. If access is provided only to the report prepared for you, you should advise contractors of the report's limitations, assuming that a contractor was not one of the specific persons for whom the report was prepared, and that developing construction cost estimates was not one of the specific purposes for which it was prepared. While a contractor may gain important knowledge from a report prepared for another party, the contractor should discuss the report with your consultant and perform the additional or alternative work believed necessary to obtain the data specifically appropriate for construction cost estimating purposes. Some clients hold the mistaken impression that simply disclaiming responsibility for the accuracy of subsurface information always insulates them from attendant liability. Providing the best available information to contractors helps prevent costly construction problems and the adversarial attitudes that aggravate them to a disproportionate scale.

READ RESPONSIBILITY CLAUSES CLOSELY.

Because geotechnical/environmental engineering is based extensively on judgment and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, consultants have developed a number of clauses for use in their contracts, reports, and other documents. These responsibility clauses are not exculpatory clauses designed to transfer the consultant's liabilities to other parties; rather, they are definitive clauses that identify where the consultant's responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses are likely to appear in your report, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to your questions.

The preceding paragraphs are based on information provided by the ASFE/Association of Engineering Firms Practicing in the Geosciences, Silver Spring, Maryland