



April 21, 2021
Cardno 03144702.R04

Mr. Jason Cook
Washington State Department of Ecology
Toxics Cleanup Program
P.O. Box 47600
Olympia, Washington 98504-7600

Cardno

801 Second Avenue
Suite 1150
Seattle, WA 98104
USA

Phone +1 206 269 0104
Toll-free +1 877 470 4334
Fax +1 206 269 0098

www.cardno.com

SUBJECT **Port of Everett – Excavation Delineation Report**
ExxonMobil ADC
Agreed Order No.: DE 6184
2717/2731 Federal Avenue
Everett, Washington

Mr. Cook:

At the request of ExxonMobil Environmental and Property Solutions, on behalf of ExxonMobil Oil Corporation (ExxonMobil) and American Distribution Company (ADC), Cardno prepared the enclosed *Port of Everett – Excavation Delineation Report* presenting results of the soil investigation conducted between October 12 through October 14, 2020, January 25 through January 27, 2021, and February 5, 2021, at the subject site.

The purpose of the work was to pre-establish the vertical and lateral extents of the proposed remedial excavation such that collection of soil samples at the time of excavation is not necessary. Cardno requests that the Washington State Department of Ecology provide an opinion regarding whether the excavation extents have been adequately vertically and laterally defined as summarized in the enclosed report.

Please contact Mr. Bobby Thompson, Cardno Project Manager for this site, at 206 510 5855, or Ms. Jennifer Sedlachek, ExxonMobil Project Manager for this site at 469 913 3672 with any questions.

Sincerely,

Cameron Penner-Ash
Assistant Project Manager
Cardno
Direct Line +1 503 869 1196
Email: cameron.penner-ash@cardno.com

Bobby Thompson
Project Manager
Cardno
Direct Line +1 206 510 5855
Email: robert.thompson@cardno.com

ENCLOSURE

Cardno's ExxonMobil Environmental and Property Solutions *Port of Everett – Excavation Delineation Drilling Report*, dated April 21, 2021

April 21, 2021
Cardno 03144702.R04 ExxonMobil ADC, Everett, Washington



cc: w/ enclosure
Mr. Erik Gerking, Port of Everett (*Electronic copy via email*)
Mr. Steve Miller, American Distribution Company (*Electronic copy via email*)
Ms. Sandra Caldwell, Washington State Department of Ecology (*Electronic copy via email*)
Ms. Jennifer Sedlachek, ExxonMobil Environmental and Property Solutions Company (*Filed in project folder*)

Port of Everett – Excavation Delineation Report

ExxonMobil ADC
2717/2731 Federal Avenue
Everett, Washington

Cardno 03144702.R04



Prepared for
ExxonMobil Environmental and Property
Solutions

April 21, 2021

Port of Everett – Excavation Delineation Report

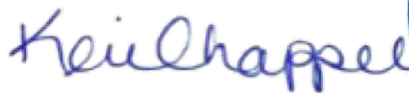
ExxonMobil ADC
2717/2731 Federal Avenue
Everett, Washington

Cardno 03144702.R04

April 21, 2021



Cameron Penner-Ash
Assistant Project Manager
Cardno
Direct Line +1 503 869 1196
Email: cameron.penner-ash@cardno.com



Keri Chappell, L.G. 2719
Project Geologist
Cardno
Direct Line +1 707 766 2011
Email: keri.chappell@cardno.com



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1 Introduction

1.1 Site Information

Site Name: ExxonMobil ADC
Address: 2717/2731 Federal Avenue
Everett, Washington
Township/Section/Range: Township 29 North, Section 19, Range 5 East
Northern Tax Parcels: 00437161900101
00437161900100
Southern Tax Parcels: 00437161901000
Current Property Owners: Northern Parcel – American Distribution Company (ADC)
Southern Parcel – ExxonMobil Oil Corporation (ExxonMobil)
Agency/Regulatory ID No: Washington Department of Ecology (Ecology) / FSID #2728
Agreed Order No.: DE 6184

1.2 Purpose

Cardno prepared this report presenting results of the soil sampling investigation conducted on October 12 to October 14, 2020, January 25 to January 27, 2021, and February 5, 2021, on Port of Everett property. The scope of work was performed in order to achieve the following objectives:

- > Advance exploratory soil borings to delineate the proposed remedial excavation extents.
- > Evaluate soil heterogeneity as related to potential preferential pathways that might impact the lateral and vertical extents of the proposed targeted remedial excavation.
- > Characterize the extent of hydrocarbons in soil on the Port of Everett property so that the collection of soil samples during the remedial excavation is not necessary.

The scope of work included:

- > The advancement of 44 excavation delineation soil borings (EB1 through EB41, EB31A, EB31B, and EB32A) to define the extents of the proposed remedial excavation on the Port of Everett property.
- > The advancement of seven step out excavation delineation soil borings (SB1 through SB7) to further define the extents of the proposed remedial excavation on the Port of Everett property.
- > The advancement of two geotechnical borings (GB1 and GB2) to aid in the development of future shoring wall plans to protect Federal Avenue during the remedial excavation.
- > Conduct a site survey by a professional survey contractor following the delineation drilling activities to survey the locations of the borings and other relevant site features and utilities. The survey will be used to accurately document the lateral and vertical spacing of each data point to direct the planned remedial activities with a high level of precision.

2 Background

The ExxonMobil ADC site is located at 2717/2731 Federal Avenue, Everett, Snohomish County, Washington, adjacent to the Port of Everett (Plate 1). The site consists of three tax parcels: 00437161900101, 00437161900100, and 00437161901000 (Snohomish County, 2018). The northern parcels are owned by ADC and the southern parcel is owned by ExxonMobil. The property historically operated as a bulk petroleum storage, transfer, and distribution facility. The area of proposed excavation is located directly west

of the ExxonMobil ADC site within five combined tax parcels: 29051900301600, 29051900302500, 29051900302700, 29051900302800, and 29051900302900 (Snohomish County, 2018). The combined tax parcels, located within the Port of Everett, are currently leased for heavy industrial use to Everett Ship Repair, LLC, a subsidiary of Ice Cap Holding, LLC, and Dunlap Towing Company (Wood, 2019). In the early 1900s, the historical shoreline was approximately located along present day Federal Avenue (Plate 2). As development continued, the shoreline was extended westward until it reached its current boundary in 1973 (Wood, 2019). The proposed excavation will take place primarily in material used to backfill the bay and extend the shoreline.

3 Cleanup Level Selection

The site-specific residual saturation concentrations used as remediation levels to guide excavation delineation drilling activities, as defined in Wood Environmental & Infrastructure Solutions, Inc. draft *Site characterization/focused feasibility study report*, dated August 23, 2019 (Wood, 2019), are as follows:

- > TPHg: 2,470 mg/kg
- > TPHd: 4,800 mg/kg
- > TPHmo: 5,810 mg/kg

4 Port of Everett Subsurface Investigation and Survey

The purpose of this work was to delineate the proposed remedial excavation on the Port of Everett property. All soil boring activities were conducted in accordance with Cardno's *Excavation Delineation Work Plan – Port of Everett Property*, dated September 1, 2020 (Cardno 2020a); Cardno's *Subsequent Excavation Delineation Drilling Work Plan*, dated December 21, 2020 (Cardno, 2020b); Cardno's standard field protocol (Appendix A); and under the supervision of a licensed geologist.

4.1 Pre-Field Activities

During pre-planning, Cardno contracted Advanced Underground Utility Locating (AUUL), of Bellevue, Washington, to conduct a comprehensive evaluation of subsurface structures located on Port of Everett property and the City of Everett right-of-way (Federal Avenue). Using a combination of ground penetrating radar and portable electromagnetic survey, AUUL located the extents of sanitary sewer lines, underground power lines, telecommunication lines, and storm sewer lines. Holocene Drilling, Inc. (Holocene), of Puyallup, Washington, obtained Washington start cards from Ecology.

4.2 Subsurface Investigation

In order to completely define the extents of the Port of Everett targeted remedial excavation such that soil sampling at the time of the excavation will not be necessary, Cardno observed Holocene advance 51 excavation delineation soil borings (EB1 through EB41, EB31A, EB31B, EB32A, and SB1 through SB7) where historical data indicated residual concentrations of hydrocarbons above the site-specific residual saturation levels. Drilling was performed during two mobilizations with the first occurring in October 2020 and the second in late January through early February 2021. It was determined following the initial mobilization in October 2020 that supplementary delineation was required; however, additional coordination with the various stakeholders was necessary prior to the second mobilization.

4.2.1 October 2020 Mobilization

On October 12 through October 14, 2020, Cardno observed Holocene advance excavation delineation soil borings in accordance with Cardno's *Excavation Delineation Work Plan – Port of Everett Property*, dated September 1, 2020 (Cardno, 2020a). Per the work plan, 21 borings were advanced by a direct push drill rig. Based on the analytical results reported by the mobile laboratory (Appendix B), nine additional step out borings were advanced to further delineate the extents of the proposed remedial excavation. The locations of borings EB1 through EB30 are shown on Plates 3 through Plate 9 and boring logs are located in Appendix C. Soil samples collected from the borings were field screened and evaluated for the presence of residual hydrocarbon concentrations. Soil samples that indicated the presence of residual hydrocarbons were analyzed on site by Libby Environmental, Inc. (Libby Environmental), a State of Washington-certified mobile laboratory, for constituents of concern. Samples that did not indicate the presence of residual hydrocarbons were preserved for analysis at Libby Environmental's fixed-based laboratory.

Delineation of the remedial excavation extents was largely achieved during the October 2020 mobilization; however, it was determined a subsequent delineation drilling event was warranted to complete delineation activities to the north, northwest, and south.

4.2.2 January/February 2021 Mobilization

On January 25 through January 27 and February 5, 2021, Cardno observed Holocene advance excavation delineation soil borings in accordance with Cardno's *Subsequent Excavation Delineation Drilling Work Plan*, dated December 21, 2020 (Cardno, 2020b). A total of 11 borings were advanced by a direct push drill rig during the mobilization. Based on the analytical results reported by the mobile laboratory, seven additional step out borings were advanced by a direct push drill rig to further delineate the extents of the proposed remedial excavation. The locations of borings EB31 through EB41 and step out borings SB1 through SB7 are shown on Plates 3 through Plate 9 and boring logs are located in Appendix C. Soil samples collected from the borings were field screened and evaluated for the presence of residual hydrocarbon concentrations. Soil samples that indicated the presence of residual hydrocarbons were analyzed on site by Libby Environmental for constituents of concern. Samples that did not indicate the presence of residual hydrocarbons were preserved for analysis at the Libby Environmental fixed-based laboratory.

4.2.3 January 2021 Duplicate Borings

On January 25, 2021, boring EB31 met refusal at 9.5 feet bgs. The 9.5-foot sample depth contained residual hydrocarbons below the site-specific residual saturation remediation levels. On January 25, 2021, boring EB32 was advanced to a maximum depth of 12.5 feet bgs and soil samples were collected at intervals of 10 and 12.5 feet bgs for laboratory analysis. The 10-foot sample depth contained residual hydrocarbons above the site-specific residual saturation remediation levels. Boring EB32 was located approximately 30 feet west of boring EB31 and it was determined that vertical delineation was not achieved at boring EB31 due to the presence of residual hydrocarbons above the site-specific residual saturation remediation levels in the 10-foot sample at boring EB32. On January 27, 2021, boring EB31A, located approximately 4 feet north of EB31, was advanced to a maximum depth of 15 feet bgs and soil samples were collected at 15 feet bgs for laboratory analysis. Field screening of the 15-foot sample at location EB31A did not indicate the presence of residual hydrocarbons and the boring was terminated at that depth. The fixed-based laboratory later reported that the 15-foot sample depth contained residual hydrocarbons above the site-specific residual saturation remediation levels. Vertical delineation was not achieved at EB31A thus EB31B, located approximately 4 feet north of EB31A, was advanced to a maximum depth of 20 feet bgs and soil samples were collected at 17.5 and 20 feet bgs for laboratory analysis. Both the 17.5 and 20-foot samples contained residual hydrocarbons below the site-specific residual saturation remediation levels and boring locations EB31, EB31A, and EB31B were determined to be vertically delineated.

Boring EB32 was located approximately 30 feet west of boring EB31A and it was determined that vertical delineation was not achieved at boring EB32 due to the presence of residual hydrocarbons above the site-specific residual saturation remediation levels in the 15-foot sample at boring EB31A. On January 27, 2021,

boring EB32A was advanced to a maximum depth of 20 feet bgs and soil samples were collected at 5, 7.5, 10, 15, 17.5, and 20 feet bgs for laboratory analysis. Only one sample, collected at 10 feet bgs, contained residual hydrocarbon concentrations above the site-specific residual saturation remediation levels and boring locations EB32 and EB32A were determined to be vertically delineated.

4.3 Laboratory Analyses

Soil samples were analyzed by either Libby's mobile or fixed-based laboratory for:

- > TPHg in accordance with NWTPH-Gx.
- > TPHd and TPHmo in accordance with NWTPH-Dx.

Cardno directed soil samples to be either analyzed in near real time in the mobile laboratory or preserved for analysis at the fixed-based laboratory based on field screening results. Laboratory results and COC documentation is included as Appendix B.

4.4 Geotechnical Boring Advancement

January 26, 2021, Cardno observed Holocene clear geotechnical borings GB1 and GB2 to 5 feet bgs using air knife clearance drilling equipment and hand tools. On January 27, 2021, Cardno observed Holocene advanced two geotechnical borings (GB1 and GB2) to aid in the development of a future shoring wall to protect Federal Avenue during the remedial excavation. The borings were advanced with a truck mounted hollow-stem auger drill rig. A split spoon sampler was advanced by a Diedric D-120 140-pound auto hammer calibrated and certified by Robber Miner Dynamic Testing, Inc., on November 19, 2020. Boring logs for GB1 and GB2 are included in Appendix C. Additional geotechnical data will be included in a future engineering design report for the site.

4.5 Topographic Land Survey

On February 4, 5, and 8, 2021, Cardno observed Alpha Subdivision Pro's Inc. Land Surveying and Planning (ASPI), of Everett, Washington, perform a comprehensive survey. The survey was conducted on and around the ExxonMobil ADC site and the Port of Everett parcels leased by Everett Ship Repair and Dunlap Towing Company. The survey consisted of physical site features, monitoring well locations, soil boring locations, above and below ground utilities, fence lines, property lines, right-of-ways, driveways, and vegetated areas. A comprehensive survey file was provided to Cardno on February 19, 2021.

4.6 Waste Management

The soil and decontamination water generated during drilling activities was temporarily stored on the ExxonMobil property in DOT-approved 55-gallon drums. Soil and decontamination water was transported by Advanced Chemical Transport, Inc., of Kent, Washington, to US Ecology Idaho Inc.'s Grandview, Idaho, facility, an ExxonMobil Approved Waste Sites List disposal facility. Waste documentation for soil and water are included in Appendix D.

5 Results of Excavation Delineation Investigation

Soil encountered during this investigation consisted of stratified layers of sand, silt, gravel with sand, and sand with gravel from surface to approximately 31.5 feet bgs (Appendix C). Laboratory results indicate 22 of 51 soil boring locations contained residual hydrocarbons above the site-specific residual saturation remediation levels for at least one sample-depth interval (Table 1). Soil concentrations exceeding the site-specific residual saturation remediation levels were confined to a north/south trending line of approximately 300 feet along Federal Avenue and extending west towards Possession Sound, approximately 75 feet.

As shown on Cross Section A-A' (Plate 10) as well as the depth-interval map series (Plates 3 through 9), soil samples exceeding the site-specific residual saturation remediation levels (illustrated in red) tend to deepen from the 5-foot bgs range in the southern area to the 15-foot bgs range in the northern area. The depth of first encountered groundwater identified during the drilling activities demonstrates a similar pattern where groundwater was first observed at shallower depths in the 5-foot bgs range to the south and deeper depths in the 15-foot bgs range to the north.

According to historical aerial photography (Wood, 2019), most of the proposed remedial excavation area was infilled during shoreline expansion efforts between 1914 and 1947. The northwestern corner (north of approximately EB25 and east to the N-S cross section line A-A' drawn on Plates 3 through 9) was infilled during shoreline expansion efforts between 1967 and 1976. Select infill materials used in the northwestern corner differ from those in the south.

Cardno observed a concrete debris layer up to 4 feet thick in the northwestern corner in EB32, EB32A, and EB34 along with several gravel layers across the entire area that were not observed in other areas of the proposed remedial excavation. Additionally, the sandy infill material in the northwest corner has a higher average percent gravel component; this coarser-grained material has the potential to permit hydrocarbons to travel deeper in this area than in the mid- to southern portions of the proposed remedial excavation area.

In the southern portion of the proposed remedial excavation area, from approximately EB19 to the southern proposed remedial excavation extent, Cardno observed wood debris in layers up to 4 feet thick. The wood debris was characterized by a clay-like texture and matrix. This finer-grained material has the potential to inhibit the vertical migration of hydrocarbons.

Aside from the presence of coarser-grained gravel and concrete debris material in the north that may have permitted additional vertical migration of hydrocarbons, and the finer-grained wood debris material in the south that may have inhibited vertical migration of hydrocarbons, Cardno did not identify any subsurface preferential pathways. The subsurface is remarkably homogeneous given its infill history, comprising primarily coarse-grained sandy sediments. The vertical extent of residual hydrocarbon concentrations has been defined as illustrated on Plate 10 and Plates 3 through 9.

The lateral migration of hydrocarbons from east to west across the Port of Everett property is well-defined on its western extent along a predominantly straight line running longitudinally north-south from SB3 to EB37. The expression of the straight line, perpendicular to groundwater flow direction and downgradient of the known historical release, demonstrates that migration of hydrocarbons occurred uniformly and the likelihood of preferential pathways existing along any east-west axis across the area is low. The western boundary of the excavation, and the interpreted western extent of residual hydrocarbon concentrations, has been defined as illustrated on Plates 3 through 9.

6 Conclusions

The extents of the proposed Port of Everett remedial excavation have been defined and soil sampling at the time of the excavation will not be necessary.

7 Recommendations

The purpose of the work was to establish the vertical and lateral extents of the proposed remedial excavation such that collection of soil samples at the time of excavation is not necessary. Cardno requests that Ecology confirm whether the excavation extents have been adequately vertically and laterally defined based on comparison against the site-specific residual saturation remediation levels and that soil sampling at the time of excavation will not be necessary.

8 Contact Information

The responsible party contact is Ms. Jennifer Sedlachek, ExxonMobil Environmental and Property Solutions Company, 4096 Piedmont Avenue #194, Oakland, California 94611.

The consultant contact is Mr. Bobby Thompson, Cardno, 801 Second Avenue, Suite 1150, Seattle, Washington 98104.

The agency contact is Mr. Jason Cook, Washington State Department of Ecology, Toxics Cleanup Program, P.O. Box 47600, Olympia, Washington 98504.

9 Limitations

For documents cited that were not generated by Cardno, the data taken from those documents is used “as is” and is assumed to be accurate. Cardno does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents.

This report and the work performed have been undertaken in good faith, with due diligence and with the expertise, experience, capability and specialized knowledge necessary to perform the work in a good and workmanlike manner and within all accepted standards pertaining to providers of environmental services in Washington at the time of investigation. No soil engineering or geotechnical references are implied or should be inferred. The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points.

10 References

Snohomish County Online Property Information (Snohomish County). January 1, 2018. *Interactive Map (SCOPI)*. <https://snohomishcountywa.gov/5414/Interactive-Map-SCOPI>. Accessed August 27, 2020.

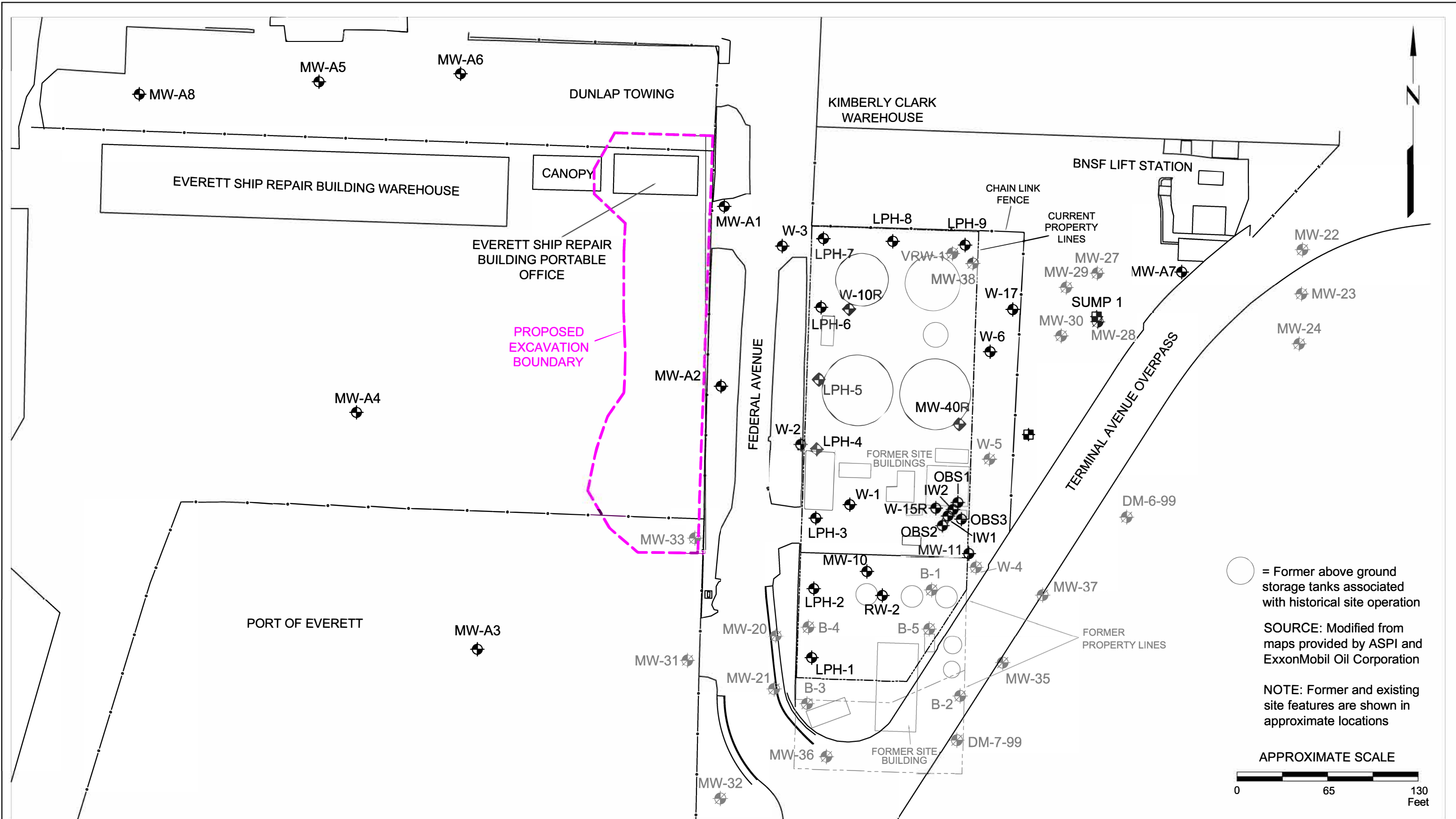
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Cardno. December 21, 2020b. *Subsequent Excavation Delineation Drilling Work*. ExxonMobil ADC, 2717/2713 Federal Avenue, Everett, Washington.

Wood Environmental & Infrastructure Solutions, Inc. (Wood). August 23, 2019. draft *Site characterization/focused feasibility study report, ExxonMobil/ADC Property, Ecology Site ID 2728, Everett, Washington*.

9 Acronym List

µg/L	Micrograms per liter	NAPL	Non-aqueous phase liquid
µg/m ³	Micrograms per cubic meter	NEPA	National Environmental Policy Act
µs	Microsiemens	NGVD	National Geodetic Vertical Datum
1,2-DCA	1,2-dichloroethane	NPDES	National Pollutant Discharge Elimination System
acfm	Actual cubic feet per minute	O&M	Operations and Maintenance
AS	Air sparge	ORP	Oxidation-reduction potential
AST	Aboveground storage tank	OSHA	Occupational Safety and Health Administration
bgs	Below ground surface	OVA	Organic vapor analyzer
BTEX	Benzene, toluene, ethylbenzene, and total xylenes	P&ID	Process and Instrumentation Diagram
cfm	Cubic feet per minute	PAH	Polycyclic aromatic (or polyaromatic) hydrocarbon
COC	Chain-of-Custody	PCB	Polychlorinated biphenyl
CPT	Cone Penetration (Penetrometer) Test	PCE	Tetrachloroethene or perchloroethylene
DIPE	Di-isopropyl ether	PID	Photo-ionization detector
DO	Dissolved oxygen	PLC	Programmable logic control
DOT	Department of Transportation	POTW	Publicly-owned treatment works
DPE	Dual-phase extraction	ppmv	Parts per million by volume
DTW	Depth to water	PQL	Practical quantitation limit
EDB	1,2-dibromoethane	psi	Pounds per square inch
EPA	Environmental Protection Agency	PVC	Polyvinyl chloride
ESL	Environmental screening level	QA/QC	Quality assurance/quality control
ETBE	Ethyl tertiary butyl ether	RBSL	Risk-based screening levels
FID	Flame-ionization detector	RCRA	Resource Conservation and Recovery Act
fpm	Feet per minute	RL	Reporting limit
GAC	Granular activated carbon	scfm	Standard cubic feet per minute
gpd	Gallons per day	SSTL	Site-specific target level
gpm	Gallons per minute	STLC	Soluble threshold limit concentration
GWPTS	Groundwater pump and treat system	SVE	Soil vapor extraction
HIT	High-intensity targeted	SVOC	Semi-volatile organic compound
HVOC	Halogenated volatile organic compound	TAME	Tertiary amyl methyl ether
J	Estimated value between MDL and PQL (RL)	TBA	Tertiary butyl alcohol
LEL	Lower explosive limit	TCE	Trichloroethene
LPC	Liquid-phase carbon	TOC	Top of well casing elevation; datum is msl
LRP	Liquid-ring pump	TOG	Total oil and grease
LUFT	Leaking underground fuel tank	TPH	Total petroleum hydrocarbons
LUST	Leaking underground storage tank	TPHd	Total petroleum hydrocarbons as diesel
MCL	Maximum contaminant level	TPHg	Total petroleum hydrocarbons as gasoline
MDL	Method detection limit	TPHmo	Total petroleum hydrocarbons as motor oil
mg/kg	Milligrams per kilogram	TPHs	Total petroleum hydrocarbons as stoddard solvent
mg/L	Milligrams per liter	TRPH	Total recoverable petroleum hydrocarbons
mg/m ³	Milligrams per cubic meter	UCL	Upper confidence level
MPE	Multi-phase extraction	USCS	Unified Soil Classification System
MRL	Method reporting limit	USGS	United States Geologic Survey
msl	Mean sea level	UST	Underground storage tank
MTBE	Methyl tertiary butyl ether	VCP	Voluntary Cleanup Program
MTCA	Model Toxics Control Act	VOC	Volatile organic compound
NAI	Natural attenuation indicators	VPC	Vapor-phase carbon



FN 0314470002



GENERALIZED SITE PLAN

ExxonMobil ADC
 2717/2731 Federal Avenue
 Everett, Washington

EXPLANATION

- MW-A8 Groundwater Monitoring Well
- SUMP 2 Groundwater Sump
- MW37 Destroyed Groundwater Monitoring Well

PROJECT NO.

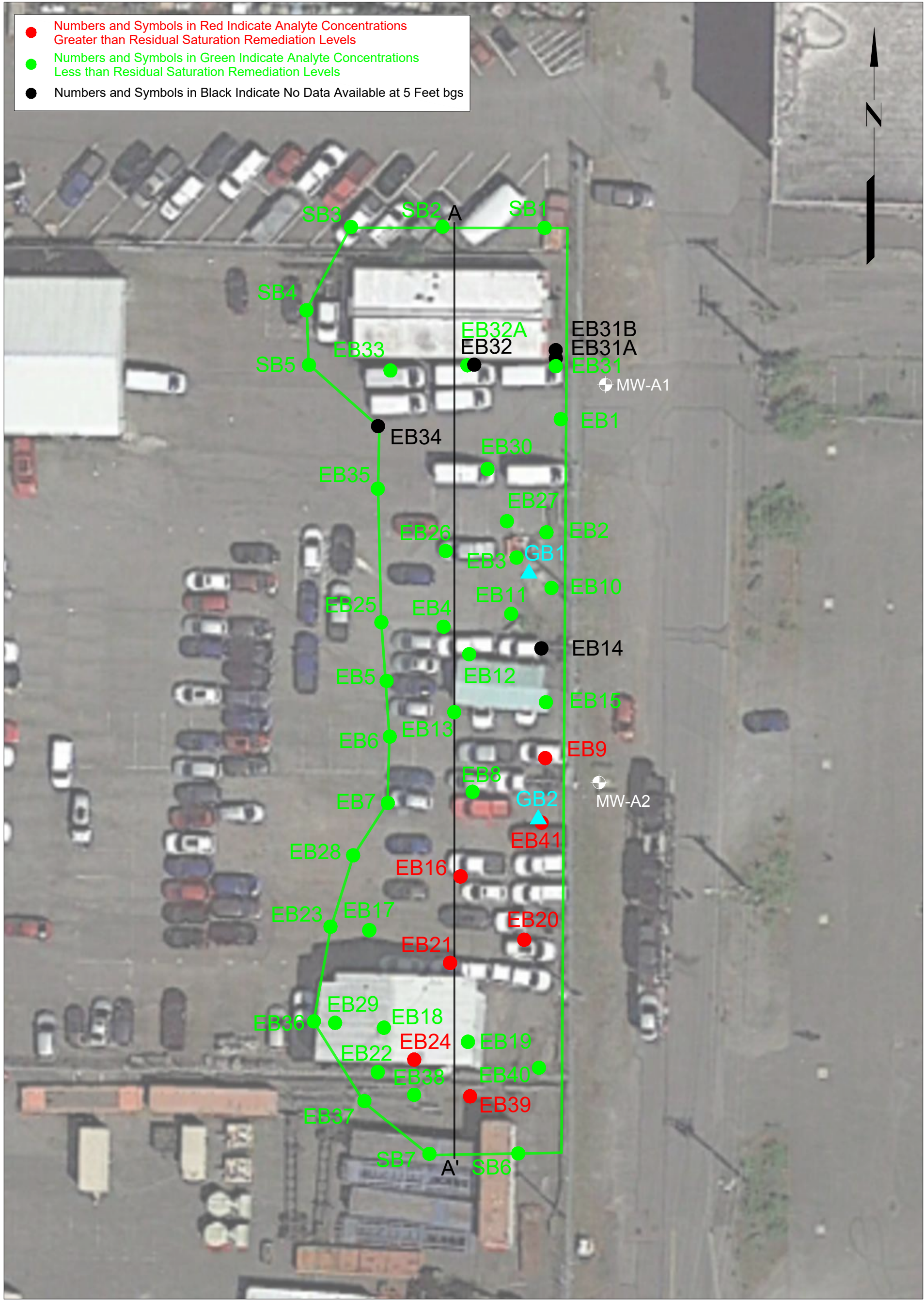
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PLATE

2

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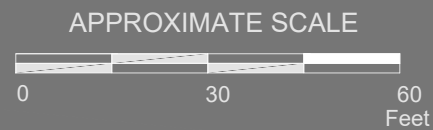
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- Numbers and Symbols in Black Indicate No Data Available at 5 Feet bgs



FN 0314470002

EXPLANATION

- | | | |
|----------------------------------------|-------------------------------------------------|-------------------------------|
| MW-A2
⊕ Groundwater Monitoring Well | EB41
● Excavation Delineation Boring | —— Defined Excavation Extents |
| GB2
▲ Geotechnical Boring | SB7
● Step Out Excavation Delineation Boring | BGS = Below Ground Surface |



PORT OF EVERETT EXCAVATION DELINEATION MAP - 5 FEET BGS

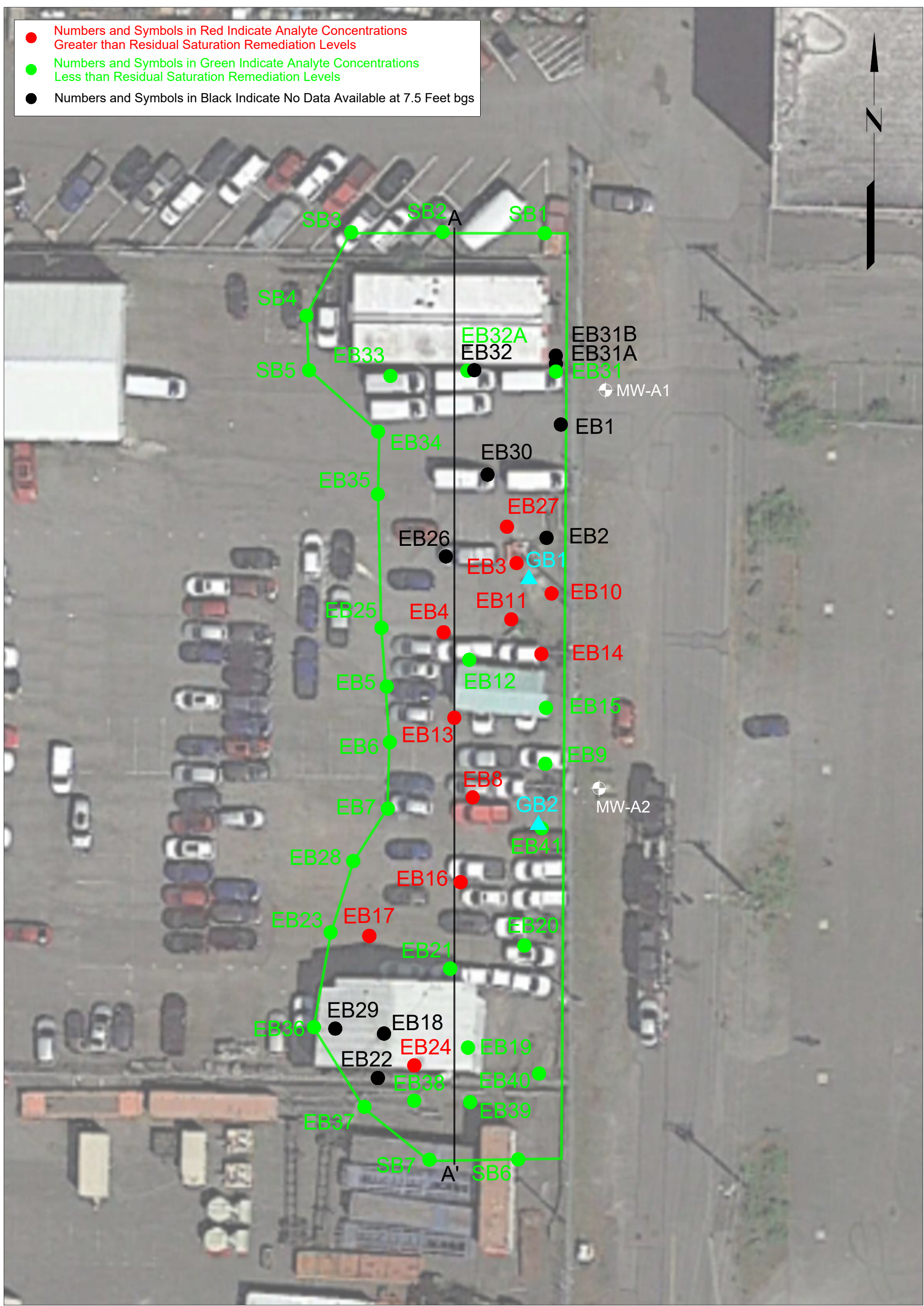
EXXONMOBIL ADC
2717/2731 Federal Avenue
Everett, Washington

PROJECT NO.
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PLATE
3

CPA: 04/01/21

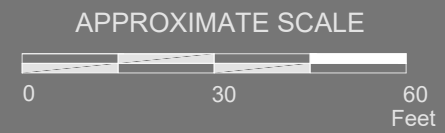
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- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
- Numbers and Symbols in Black Indicate No Data Available at 7.5 Feet bgs



FN 0314470002

EXPLANATION

- | | | |
|----------------------------------------|-------------------------------------------------|-------------------------------|
| MW-A2
⊕ Groundwater Monitoring Well | EB41
● Excavation Delineation Boring | —— Defined Excavation Extents |
| GB2
▲ Geotechnical Boring | SB7
● Step Out Excavation Delineation Boring | BGS = Below Ground Surface |



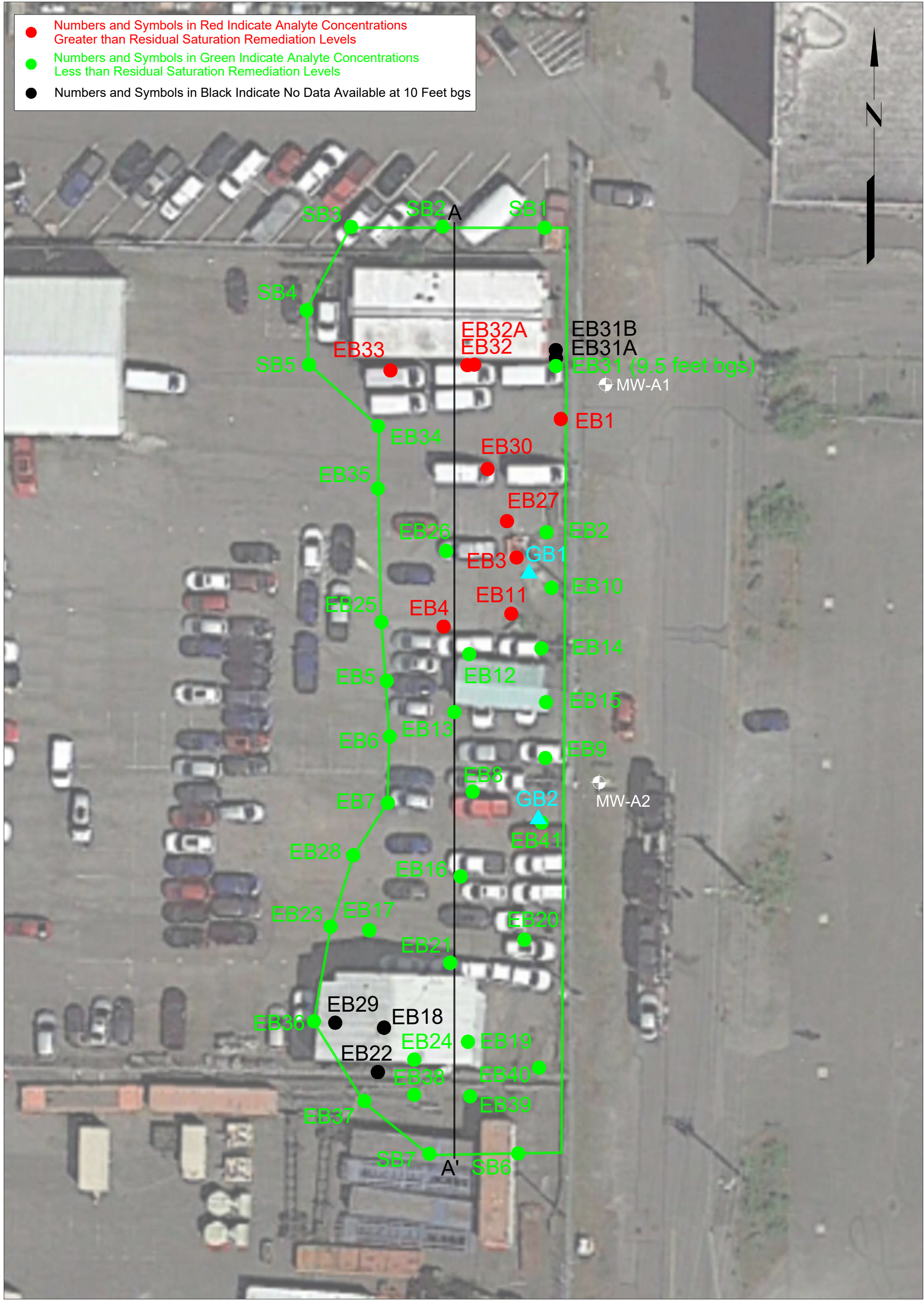
PORT OF EVERETT EXCAVATION DELINEATION MAP - 7.5 FEET BGS

EXXONMOBIL ADC
2717/2731 Federal Avenue
Everett, Washington

PROJECT NO.
031447

PLATE
4
CPA: 03/30/21

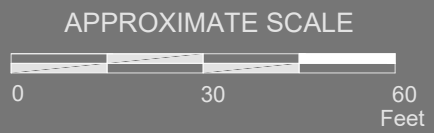
- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
- Numbers and Symbols in Black Indicate No Data Available at 10 Feet bgs



FN 0314470002

EXPLANATION

- | | | |
|----------------------------------------|-------------------------------------------------|-------------------------------|
| MW-A2
● Groundwater Monitoring Well | EB41
● Excavation Delineation Boring | —— Defined Excavation Extents |
| GB2
▲ Geotechnical Boring | SB7
● Step Out Excavation Delineation Boring | BGS = Below Ground Surface |



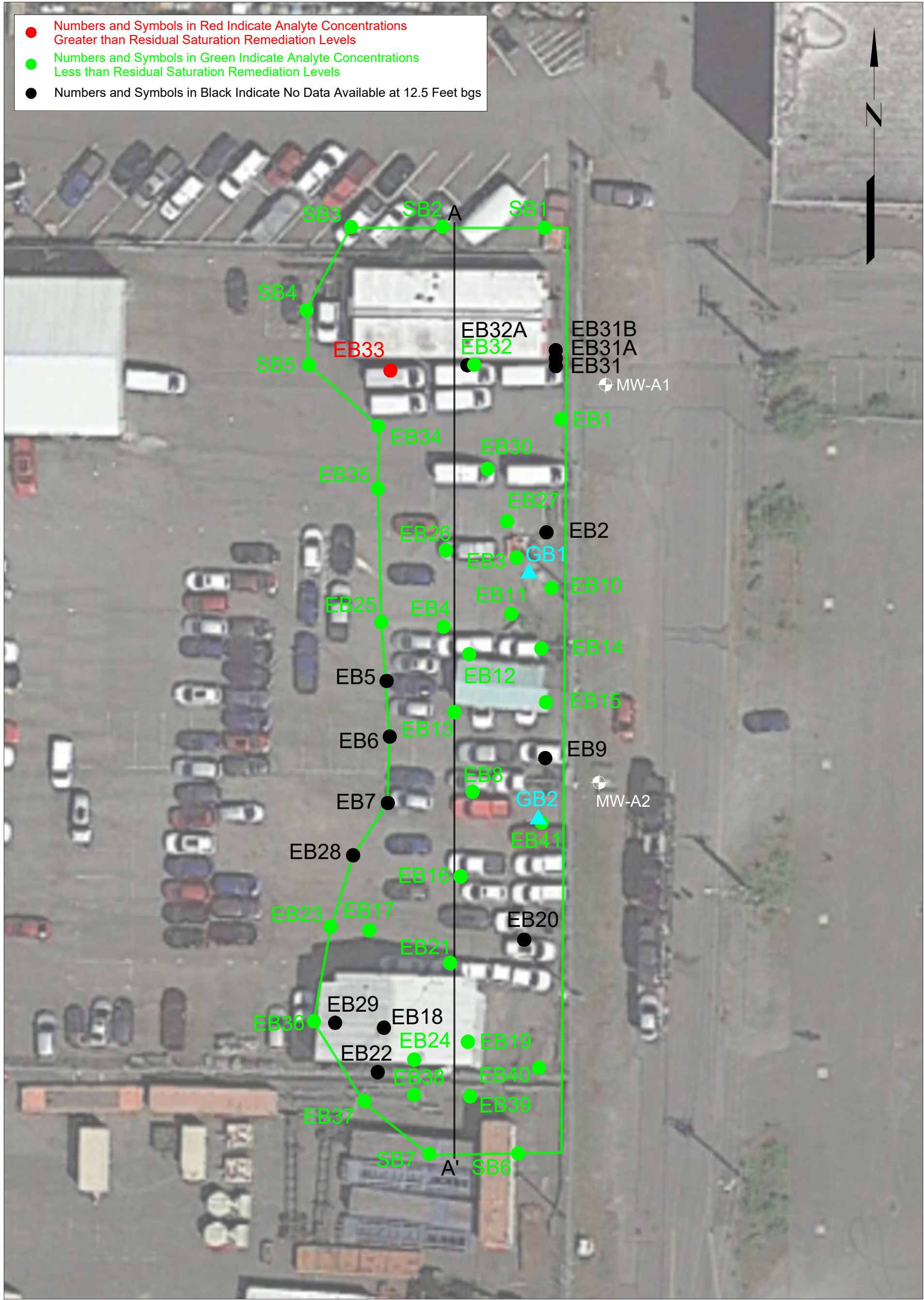
PORT OF EVERETT EXCAVATION DELINEATION MAP - 10 FEET BGS

EXXONMOBIL ADC
2717/2731 Federal Avenue
Everett, Washington

PROJECT NO.
031447

PLATE
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CPA: 03/30/21

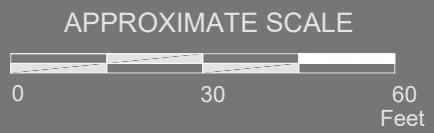
- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
- Numbers and Symbols in Black Indicate No Data Available at 12.5 Feet bgs



FN 0314470002

EXPLANATION

- | | | |
|----------------------------------------|-------------------------------------------------|-------------------------------|
| MW-A2
● Groundwater Monitoring Well | EB41
● Excavation Delineation Boring | —— Defined Excavation Extents |
| GB2
▲ Geotechnical Boring | SB7
● Step Out Excavation Delineation Boring | BGS = Below Ground Surface |



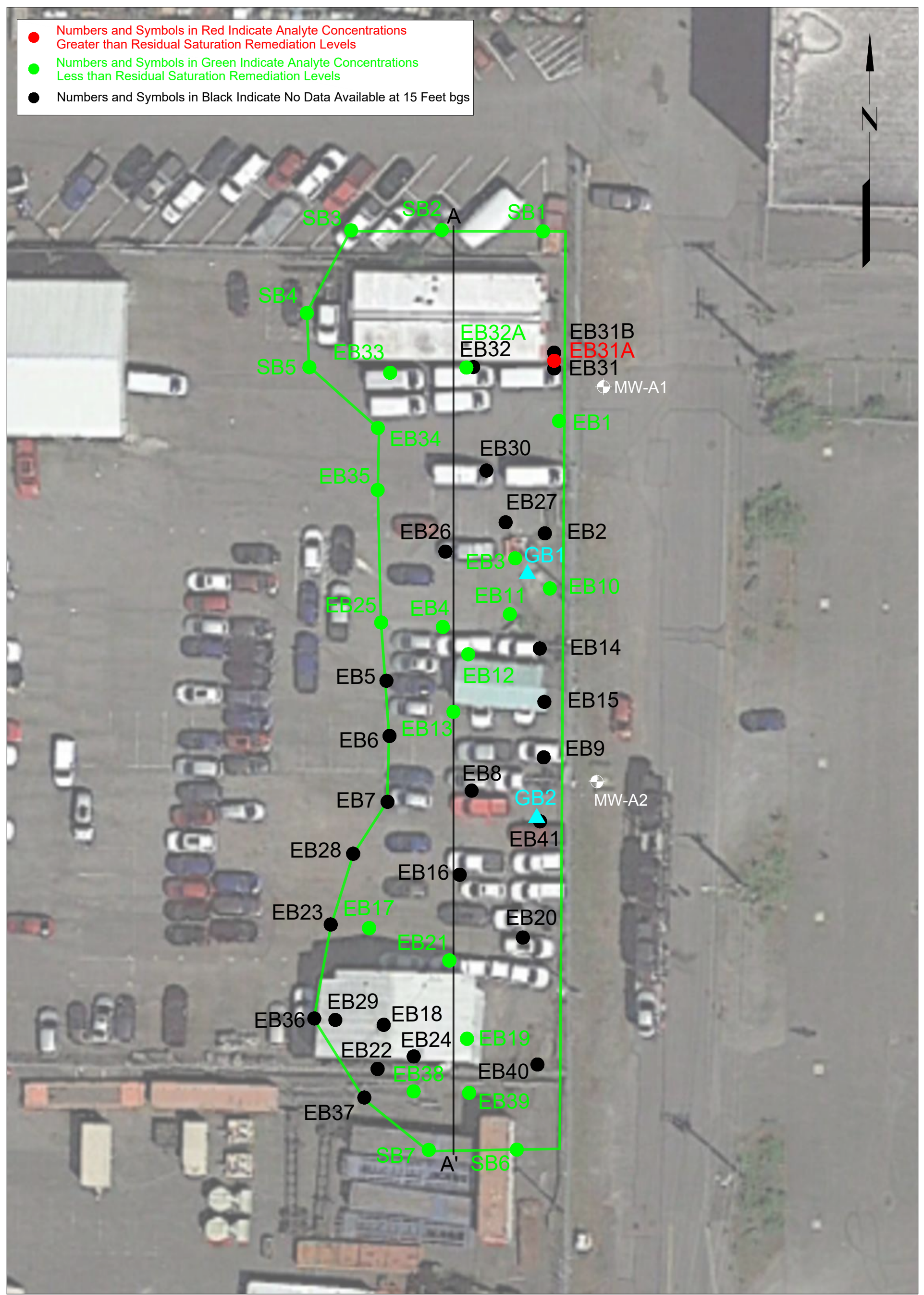
PORT OF EVERETT EXCAVATION DELINEATION MAP - 12.5 FEET BGS

EXXONMOBIL ADC
2717/2731 Federal Avenue
Everett, Washington

PROJECT NO.
031447

PLATE
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CPA: 04/01/21

- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
- Numbers and Symbols in Black Indicate No Data Available at 15 Feet bgs



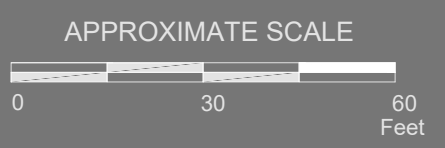
FN 0314470002

EXPLANATION

- MW-A2
⊕ Groundwater Monitoring Well
- GB2
▲ Geotechnical Boring

- EB41
● Excavation Delineation Boring
- SB7
● Step Out Excavation Delineation Boring

- Defined Excavation Extents
- BGS = Below Ground Surface

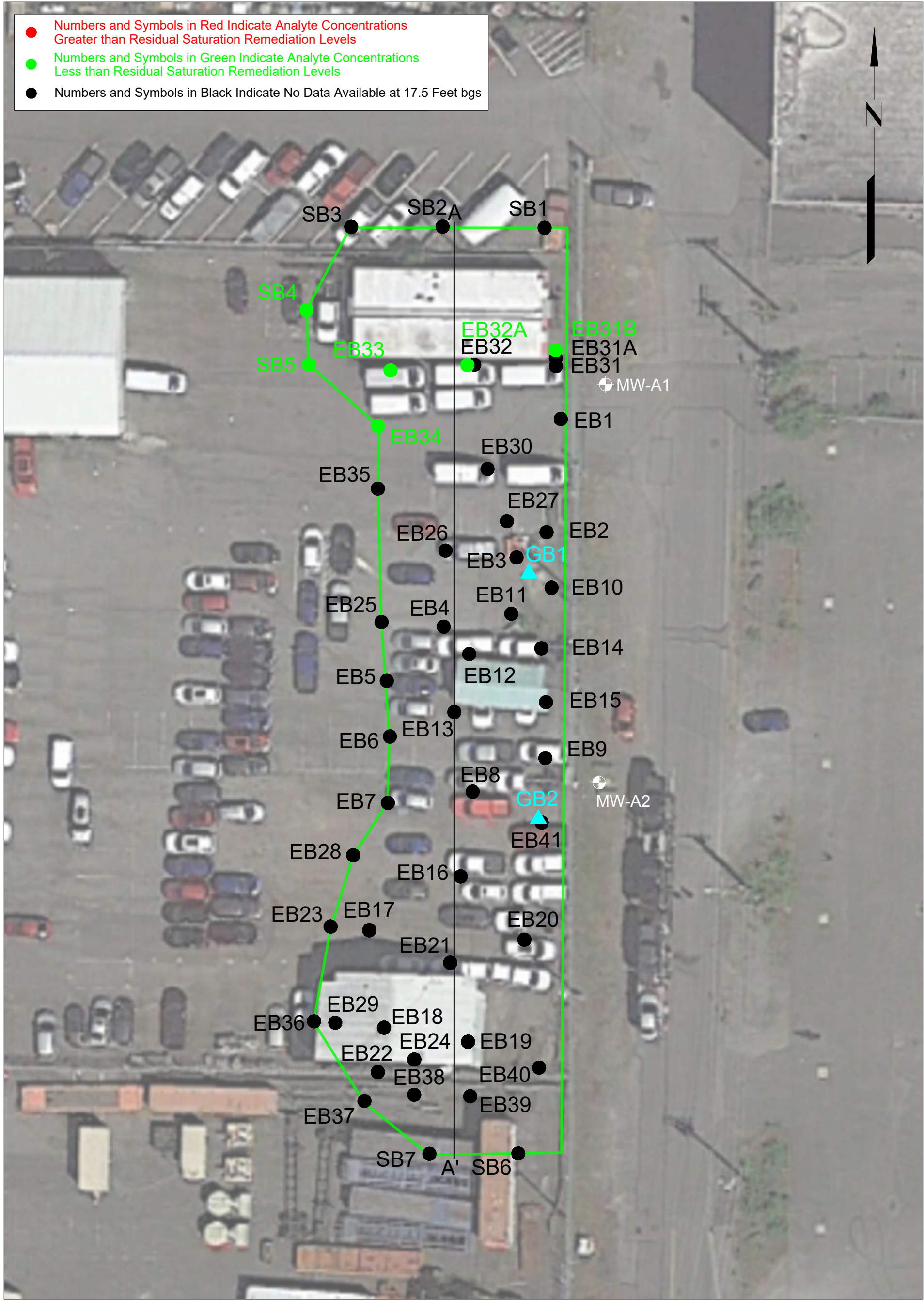


PORT OF EVERETT EXCAVATION DELINEATION MAP - 15 FEET BGS

EXXONMOBIL ADC
2717/2731 Federal Avenue
Everett, Washington

PROJECT NO.
031447
PLATE
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CPA: 03/30/21

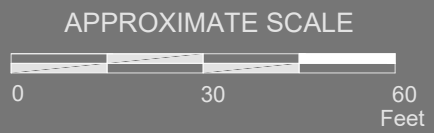
- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
- Numbers and Symbols in Black Indicate No Data Available at 17.5 Feet bgs



FN 0314470002

EXPLANATION

- | | | |
|----------------------------------------|-------------------------------------------------|-------------------------------|
| MW-A2
● Groundwater Monitoring Well | EB41
● Excavation Delineation Boring | —— Defined Excavation Extents |
| GB2
▲ Geotechnical Boring | SB7
● Step Out Excavation Delineation Boring | BGS = Below Ground Surface |



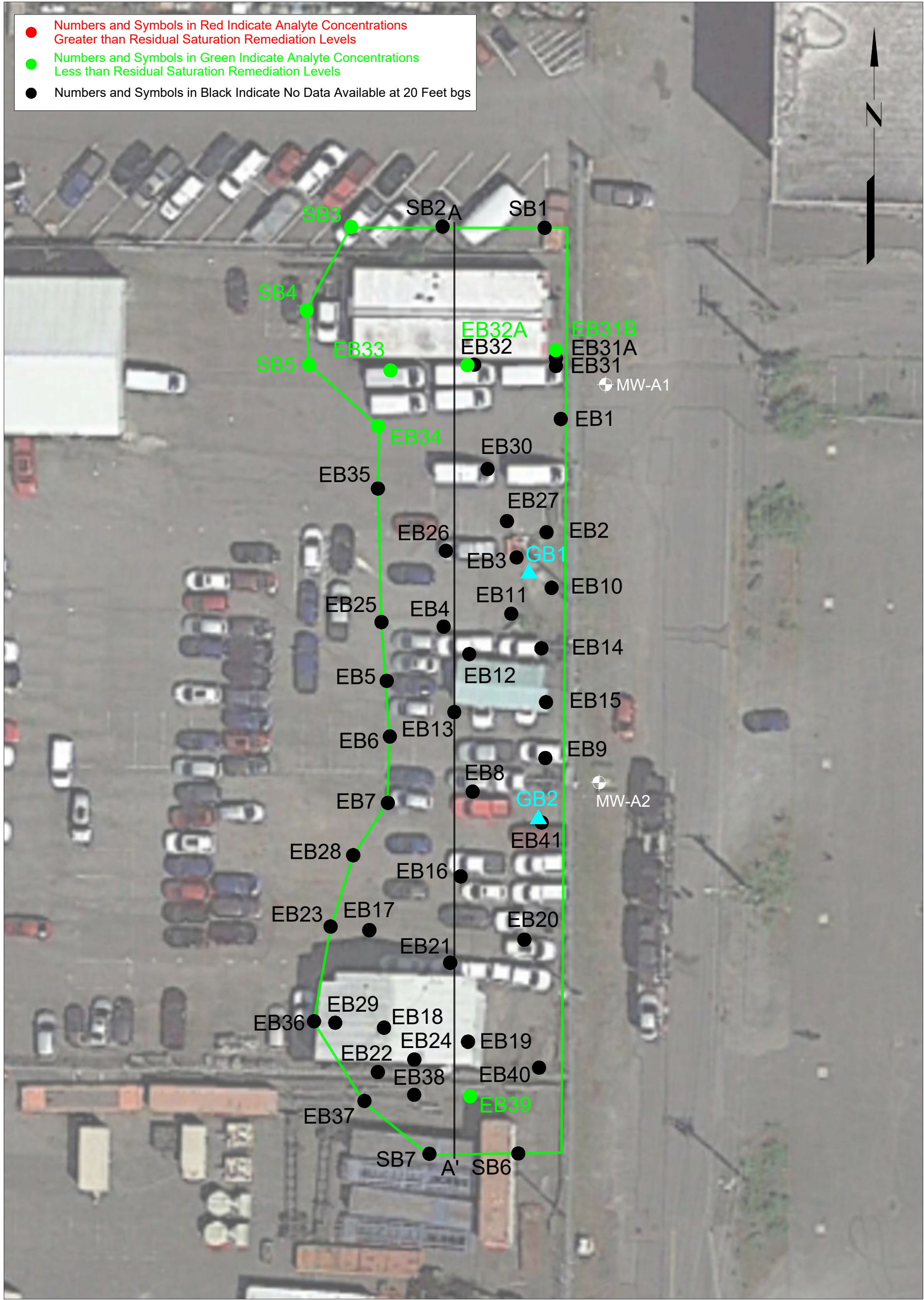
PORT OF EVERETT EXCAVATION DELINEATION MAP - 17.5 FEET BGS

EXXONMOBIL ADC
2717/2731 Federal Avenue
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PLATE
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CPA: 03/30/21

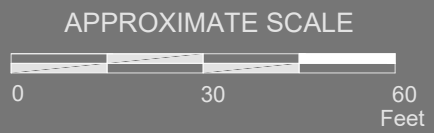
- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
- Numbers and Symbols in Black Indicate No Data Available at 20 Feet bgs



FN 0314470002

EXPLANATION

- | | | |
|----------------------------------------|-------------------------------------------------|----------------------------|
| MW-A2
● Groundwater Monitoring Well | EB41
● Excavation Delineation Boring | Defined Excavation Extents |
| GB2
▲ Geotechnical Boring | SB7
● Step Out Excavation Delineation Boring | BGS = Below Ground Surface |



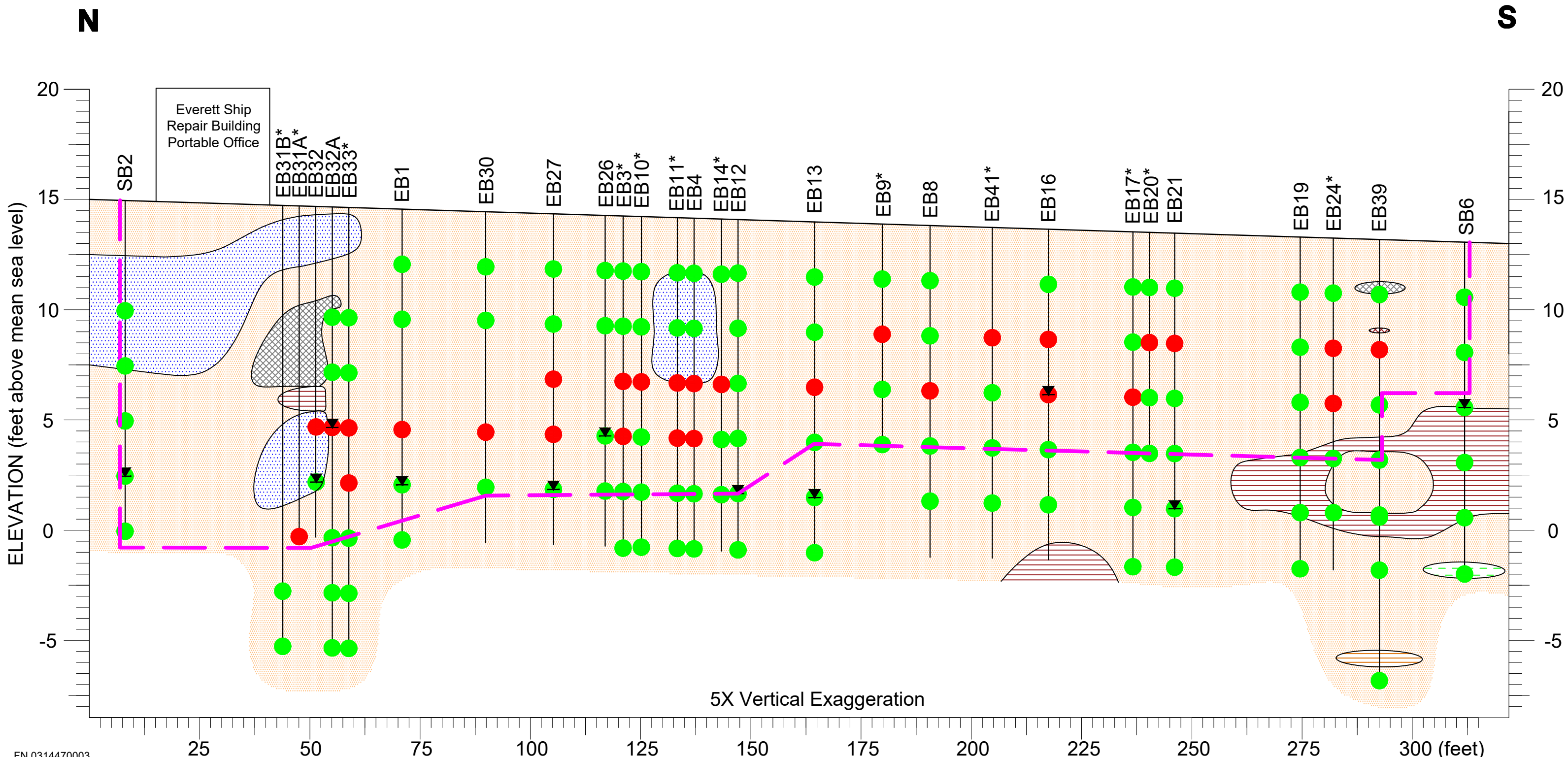
PORT OF EVERETT EXCAVATION DELINEATION MAP - 20 FEET BGS

EXXONMOBIL ADC
2717/2731 Federal Avenue
Everett, Washington

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* = EB1, EB3, EB9, EB10, EB11, EB14, EB17, EB20, EB24, EB31A, EB31B, EB33, and EB41 are projected onto the cross section for hydrocarbon concentration distribution purposes; projected borings were not used to construct lithology illustration.



FN 0314470003



CROSS SECTION N-S
 EXXONMOBIL ADC
 2717/2731 Federal Avenue
 Everett, Washington

EXPLANATION	
Water Level Encountered During Drilling	Coarse-grained Gravelly Sediments (GW, GC)
Hydrocarbon Concentrations In Soil Less Than Site-Specific Cleanup Levels	Coarse-grained Sandy Sediments (SW, SP, SM, SC)
Hydrocarbon Concentrations In Soil Greater Than Site-Specific Cleanup Levels	Fine-grained Sediments (CL, CH, ML)
Proposed Excavation Extents	Organic Sediments (OH, PT, Wood Debris)
	Concrete Debris

PROJECT
 031447
PLATE
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 CPA: 04/01/21

**TABLE 1
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS**

ExxonMobil ADC
2717/2731 Federal Avenue
Everett, Washington
Page 1 of 6

Sample Name	Well ID / Location	Date	Sample Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
S-2.5-EB1	EB1	10/13/20	2.5	<10	<50	<250
S-5-EB1	EB1	10/13/20	5	<10	<50	<250
S-10-EB1	EB1	10/13/20	10	<100	16,000E	<250
S-12.5-EB1	EB1	10/13/20	12.5	<50	3,500	<250
S-15-EB1	EB1	10/13/20	15	<10	<50	<250
S-2.5-EB2	EB2	10/13/20	2.5	<10	<50	<250
S-5-EB2	EB2	10/13/20	5	<10	<50	<250
S-10-EB2	EB2	10/13/20	10	<10	<50	<250
S-2.5-EB3	EB3	10/12/20	2.5	<10	<50	<250
S-5-EB3	EB3	10/12/20	5	<10	<50	<250
S-7.5-EB3	EB3	10/12/20	7.5	<100	43,000	<250
S-10-EB3	EB3	10/12/20	10	<50	15,000	<250
S-12.5-EB3	EB3	10/12/20	12.5	<50	188	<250
S-15-EB3	EB3	10/12/20	15	<10	<50	<250
S-2.5-EB4	EB4	10/12/20	2.5	<10	<50	<250
S-5-EB4	EB4	10/12/20	5	18	4,700	<250
S-7.5-EB4	EB4	10/12/20	7.5	<100	36,000	<250
S-10-EB4	EB4	10/12/20	10	<100	5,500E	<250
S-12.5-EB4	EB4	10/12/20	12.5	<50	4,400	<250
S-15-EB4	EB4	10/12/20	15	<10	<50	<250
S-2.5-EB5	EB5	10/12/20	2.5	<10	<50	<250
S-5-EB5	EB5	10/12/20	5	<10	<50	<250
S-7.5-EB5	EB5	10/12/20	7.5	<10	<50	<250
S-10-EB5	EB5	10/12/20	10	<10	51	<250
S-2.5-EB6	EB6	10/12/20	2.5	<10	<50	<250
S-5-EB6	EB6	10/12/20	5	<10	<50	<250
S-7.5-EB6	EB6	10/12/20	7.5	<10	<50	<250
S-10-EB6	EB6	10/12/20	10	<10	<50	<250
S-5-EB7	EB7	10/12/20	5	<10	<50	<250
S-7.5-EB7	EB7	10/12/20	7.5	<10	74	<250
S-10-EB7	EB7	10/12/20	10	<10	<50	<250
S-2.5-EB8	EB8	10/14/20	2.5	<10	<50	<250
S-5-EB8	EB8	10/14/20	5	<10	2,600	4,300
S-7.5-EB8	EB8	10/14/20	7.5	<10	7,400	13,000
S-10-EB8	EB8	10/14/20	10	<20	1,800	1,300
S-12.5-EB8	EB8	10/14/20	12.5	<10	<50	<250
S-2.5-EB9	EB9	10/14/20	2.5	<10	<50	<250
S-5-EB9	EB9	10/14/20	5	<50	2,700	11,000E
S-7.5-EB9	EB9	10/14/20	7.5	<10	<50	<250
S-10-EB9	EB9	10/14/20	10	<10	<50	<250
S-2.5-EB10	EB10	10/14/20	2.5	<10	<50	<250
S-5-EB10	EB10	10/14/20	5	<10	<50	<250
S-7.5-EB10	EB10	10/14/20	7.5	<10	12,000	<250
S-10-EB10	EB10	10/14/20	10	<10	4,300	<250
S-12.5-EB10	EB10	10/14/20	12.5	<10	<50	<250
S-15-EB10	EB10	10/14/20	15	<10	<50	<250
Site-Specific Cleanup Levels				2,470	4,800	5,810

Continued on Page 2

**TABLE 1
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS**

ExxonMobil ADC
2717/2731 Federal Avenue
Everett, Washington
Page 2 of 6

Sample Name	Well ID / Location	Date	Sample Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
S-2.5-EB11	EB11	10/12/20	2.5	<10	<50	550
S-5-EB11	EB11	10/12/20	5	<100	2,400	<250
S-7.5-EB11	EB11	10/12/20	7.5	<100	44,000	2,700
S-10-EB11	EB11	10/12/20	10	<100	11,000	1,300
S-12.5-EB11	EB11	10/12/20	12.5	<10	370	<250
S-15-EB11	EB11	10/12/20	15	<10	<50	<250
S-2.5-EB12	EB12	10/12/20	2.5	<10	<50	<250
S-5-EB12	EB12	10/12/20	5	<10	160	<250
S-7.5-EB12	EB12	10/12/20	7.5	<10	3,600	<250
S-10-EB12	EB12	10/12/20	10	<100	3,000	<250
S-12.5-EB12	EB12	10/12/20	12.5	<100	2,000	<250
S-15-EB12	EB12	10/12/20	15	<10	460	<250
S-2.5-EB13	EB13	10/14/20	2.5	<10	<50	<250
S-5-EB13	EB13	10/14/20	5	<50	1,400	1,800
S-7.5-EB13	EB13	10/14/20	7.5	190	11,000	1,800
S-10-EB13	EB13	10/14/20	10	<10	320	<250
S-12.5-EB13	EB13	10/14/20	12.5	<10	<50	<250
S-15-EB13	EB13	10/14/20	15	<10	<50	<250
S-2.5-EB14	EB14	10/14/20	2.5	<10	<50	<250
S-7.5-EB14	EB14	10/14/20	7.5	<10	5,000	6,900
S-10-EB14	EB14	10/14/20	10	<10	4,100	1,500
S-12.5-EB14	EB14	10/14/20	12.5	<10	<50	<250
S-2.5-EB15	EB15	10/14/20	2.5	<10	<50	<250
S-5-EB15	EB15	10/14/20	5	<10	1,100	2,000
S-7.5-EB15	EB15	10/14/20	7.5	19	2,200	260
S-10-EB15	EB15	10/14/20	10	<10	<50	<250
S-12.5-EB15	EB15	10/14/20	12.5	<10	<50	<250
S-2.5-EB16	EB16	10/13/20	2.5	<10	<50	<250
S-5-EB16	EB16	10/13/20	5	<100	4,800	1,100
S-7.5-EB16	EB16	10/13/20	7.5	<100	9,700	3,900
S-10-EB16	EB16	10/13/20	10	<10	170	<250
S-12.5-EB16	EB16	10/13/20	12.5	<10	<50	<250
S-2.5-EB17	EB17	10/13/20	2.5	<10	<50	<250
S-5-EB17	EB17	10/13/20	5	<10	<50	<250
S-7.5-EB17	EB17	10/13/20	7.5	11	33,000	<250
S-10-EB17	EB17	10/13/20	10	<50	2,600	<250
S-12.5-EB17	EB17	10/13/20	12.5	<10	<50	<250
S-15-EB17	EB17	10/13/20	15	<10	<50	<250
S-5-EB18	EB18	10/13/20	5	<10	450	210J
S-2.5-EB19	EB19	10/13/20	2.5	<10	<50	<250
S-5-EB19	EB19	10/13/20	5	<50	1,900	360
S-7.5-EB19	EB19	10/13/20	7.5	<50	4,500	760
S-10-EB19	EB19	10/13/20	10	<10	<50	<250
S-12.5-EB19	EB19	10/13/20	12.5	<10	<50	<250
S-15-EB19	EB19	10/13/20	15	<10	<50	<250
S-2.5-EB20	EB20	10/13/20	2.5	<10	170	<250
Site-Specific Cleanup Levels				2,470	4,800	5,810

Continued on Page 3

**TABLE 1
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS**

ExxonMobil ADC
2717/2731 Federal Avenue
Everett, Washington
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Sample Name	Well ID / Location	Date	Sample Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
S-5-EB20	EB20	10/13/20	5	<10	8,400	2,200
S-7.5-EB20	EB20	10/13/20	7.5	<10	180	<250
S-10-EB20	EB20	10/13/20	10	<10	<50	<250
S-2.5-EB21	EB21	10/13/20	2.5	<10	<50	<250
S-5-EB21	EB21	10/13/20	5	<10	8,100	12,000
S-7.5-EB21	EB21	10/13/20	7.5	<50	3,700	640
S-10-EB21	EB21	10/13/20	10	<10	<50	<250
S-12.5-EB21	EB21	10/13/20	12.5	<10	<50	<250
S-15-EB21	EB21	10/13/20	15	<10	<50	<250
S-5-EB22	EB22	10/13/20	5	<10	<50	<250
S-2.5-EB23	EB23	10/13/20	2.5	<10	<50	<250
S-5-EB23	EB23	10/13/20	5	<10	<50	<250
S-7.5-EB23	EB23	10/13/20	7.5	<10	<50	<250
S-10-EB23	EB23	10/13/20	10	<10	4,100	<250
S-12.5-EB23	EB23	10/13/20	12.5	<10	62	<250
S-2.5-EB24	EB24	10/13/20	2.5	<10	<50	<250
S-5-EB24	EB24	10/13/20	5	<50	<50	6,300
S-7.5-EB24	EB24	10/13/20	7.5	<10	8,100	1,200
S-10-EB24	EB24	10/13/20	10	<10	2,300	<250
S-12.5-EB24	EB24	10/13/20	12.5	<10	<50	<250
S-2.5-EB25	EB25	10/13/20	2.5	<10	<50	<250
S-5-EB25	EB25	10/13/20	5	<10	<50	<250
S-7.5-EB25	EB25	10/13/20	7.5	<10	<50	<250
S-10-EB25	EB25	10/13/20	10	<10	2,400	860
S-12.5-EB25	EB25	10/13/20	12.5	<10	<50	<250
S-15-EB25	EB25	10/13/20	15	--	<50	<250
S-2.5-EB26	EB26	10/14/20	2.5	<10	<50	<250
S-5-EB26	EB26	10/14/20	5	<10	76	<250
S-10-EB26	EB26	10/14/20	10	<20	1,600	<250
S-12.5-EB26	EB26	10/14/20	12.5	<10	<50	<250
S-2.5-EB27	EB27	10/14/20	2.5	<10	<50	<250
S-5-EB27	EB27	10/14/20	5	<10	<50	<250
S-7.5-EB27	EB27	10/14/20	7.5	<100	10,000	11,000
S-10-EB27	EB27	10/14/20	10	<100	9,100E	<250
S-12.5-EB27	EB27	10/14/20	12.5	<10	<50	<250
S-2.5-EB28	EB28	10/14/20	2.5	<10	<50	<250
S-5-EB28	EB28	10/14/20	5	<10	<50	<250
S-7.5-EB28	EB28	10/14/20	7.5	<10	<50	<250
S-10-EB28	EB28	10/14/20	10	<50	<50	<250
S-2.5-EB29	EB29	10/14/20	2.5	<10	<50	<250
S-5-EB29	EB29	10/14/20	5	<10	<50	<250
S-2.5-EB30	EB30	10/14/20	2.5	<10	<50	<250
S-5-EB30	EB30	10/14/20	5	<10	<50	560
S-10-EB30	EB30	10/14/20	10	<100	39,000	<250
S-12.5-EB30	EB30	10/14/20	12.5	<10	<50	<250
S-5-EB31	EB31	01/25/21	5	<10	<50	<250
Site-Specific Cleanup Levels				2,470	4,800	5,810

Continued on Page 4

**TABLE 1
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS**

ExxonMobil ADC
2717/2731 Federal Avenue
Everett, Washington
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Sample Name	Well ID / Location	Date	Sample Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
S-7.5-EB31	EB31	01/25/21	7.5	<10	<50	<250
S-9.5-EB31	EB31	01/25/21	9.5	<100	3,400	<250
S-15-EB31A	EB31A	01/27/21	15	<100	7,000E	<250
S-17.5-EB31B	EB31B	01/27/21	17.5	<10	<50	<250
S-20-EB31B	EB31B	01/27/21	20	<10	<50	<250
S-10-EB32	EB32	01/25/21	10	<10	6,200	<250
S-10-EB32 ^b	EB32	01/25/21	10	--	4,700	<250
S-12.5-EB32	EB32	01/25/21	12.5	<10	410	<250
S-12.5-EB32 ^b	EB32	01/25/21	12.5	--	340	<250
S-5-EB32A	EB32A	01/27/21	5	<10	56	<250
S-7.5-EB32A	EB32A	01/27/21	7.5	<25	2,040	290
S-10-EB32A	EB32A	01/27/21	10	<10	6,100	<250
S-15-EB32A	EB32A	01/27/21	15	<10	<50	<250
S-17.5-EB32A	EB32A	01/27/21	17.5	<10	<50	<250
S-20-EB32A	EB32A	01/27/21	20	<10	<50	<250
S-5-EB33	EB33	01/25/21	5	<10	<50	<250
S-7.5-EB33	EB33	01/25/21	7.5	<10	<50	<250
S-10-EB33	EB33	01/25/21	10	<40	28,000	1,580
S-12.5-EB33	EB33	01/25/21	12.5	<10	21,000E	<250
S-15-EB33	EB33	01/25/21	15	<1,000	150	<250
S-17.5-EB33	EB33	01/25/21	17.5	<10	63	<250
S-20-EB33	EB33	01/25/21	20	<10	<50	310
S-7.5-EB34	EB34	01/25/21	7.5	<10	<50	<250
S-10-EB34	EB34	01/25/21	10	<10	2,100	<250
S-12.5-EB34	EB34	01/25/21	12.5	<50	1,600	760
S-15-EB34	EB34	01/25/21	15	<10	<50	<250
S-17.5-EB34	EB34	01/25/21	17.5	<10	<50	<250
S-20-EB34	EB34	01/25/21	20	<10	<50	<250
S-5-EB35	EB35	01/25/21	5	<10	<50	<250
S-7.5-EB35	EB35	01/25/21	7.5	<10	<50	<250
S-10-EB35	EB35	01/25/21	10	<10	<50	<250
S-12.5-EB35	EB35	01/25/21	12.5	<15	520	430
S-15-EB35	EB35	01/25/21	15	<10	<50	<250
S-5-EB36	EB36	01/26/21	5	<10	<50	<250
S-7.5-EB36	EB36	01/26/21	7.5	<10	<50	<250
S-10-EB36	EB36	01/26/21	10	<10	<50	<250
S-12.5-EB36	EB36	01/26/21	12.5	<10	<50	<250
S-5-EB37	EB37	01/27/21	5	<10	<50	<250
S-7.5-EB37	EB37	01/27/21	7.5	<10	<50	<250
S-10-EB37	EB37	01/27/21	10	<10	<50	<250
S-12.5-EB37	EB37	01/27/21	12.5	<10	<50	<250
S-2.5-EB38	EB38	01/27/21	2.5	<10	<50	490
S-5-EB38	EB38	01/27/21	5	<10	<50	<250
S-7.5-EB38	EB38	01/27/21	7.5	<10	<50	<250
S-10-EB38	EB38	01/27/21	10	<10	<50	<250
S-12.5-EB38	EB38	01/27/21	12.5	<10	<50	<250
Site-Specific Cleanup Levels				2,470	4,800	5,810

Continued on Page 6

**TABLE 1
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS**

ExxonMobil ADC
2717/2731 Federal Avenue
Everett, Washington
Page 5 of 6

Sample Name	Well ID / Location	Date	Sample Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
S-15-EB38	EB38	01/27/21	15	<10	<50	<250
S-2.5-EB39	EB39	01/27/21	2.5	<10	2,200	<250
S-2.5-EB39 ^b	EB39	01/27/21	2.5	<10	--	--
S-5-EB39	EB39	01/27/21	5	<10	5,600	<250
S-5-EB39 ^b	EB39	01/27/21	5	--	4,500	<250
S-7.5-EB39	EB39	01/27/21	7.5	<50	2,200	<250
S-10-EB39	EB39	01/27/21	10	<10	<50	<250
S-12.5-EB39	EB39	01/27/21	12.5	<10	<50	<250
S-15-EB39	EB39	01/27/21	15	<10	<50	<250
S-20-EB39	EB39	01/27/21	20	<10	<50	<250
S-5-EB40	EB40	01/26/21	5	<10	490 ^a	<250
S-7.5-EB40	EB40	01/26/21	7.5	<10	<50	<250
S-10-EB40	EB40	01/26/21	10	<10	<50	<250
S-12.5-EB40	EB40	01/26/21	12.5	<10	<50	<250
S-5-EB41	EB41	01/27/21	5	<15	9,300	6,700
S-7.5-EB41	EB41	01/27/21	7.5	<10	630	310
S-10-EB41	EB41	01/27/21	10	<10	<50	<250
S-12.5-EB41	EB41	01/27/21	12.5	<10	<50	<250
S-5-SB1	SB1	01/26/21	5	<10	<50	<250
S-7.5-SB1	SB1	01/26/21	7.5	<10	110	660
S-10-SB1	SB1	01/26/21	10	<10	<50	<250
S-12.5-SB1	SB1	01/26/21	12.5	<10	<50	<250
S-15-SB1	SB1	01/26/21	15	<10	<50	<250
S-5-SB2	SB2	01/26/21	5	<10	<50	790
S-7.5-SB2	SB2	01/26/21	7.5	<10	<50	<250
S-10-SB2	SB2	01/26/21	10	<10	<50	<250
S-12.5-SB2	SB2	01/26/21	12.5	<10	<50	<250
S-15-SB2	SB2	01/26/21	15	<10	<50	<250
S-5-SB3	SB3	01/26/21	5	<10	440	2,200
S-7.5-SB3	SB3	01/26/21	7.5	<10	<50	<250
S-10-SB3	SB3	01/26/21	10	<10	130	680
S-12.5-SB3	SB3	01/26/21	12.5	<10	<50	<250
S-15-SB3	SB3	01/26/21	15	<10	<50	<250
S-20-SB3	SB3	01/26/21	20	<10	<50	<250
S-5-SB4	SB4	01/25/21	5	<10	<50	<250
S-7.5-SB4	SB4	01/25/21	7.5	<10	<50	<250
S-10-SB4	SB4	01/25/21	10	<10	3,900	<250
S-12.5-SB4	SB4	01/25/21	12.5	<50	1,700	<250
S-15-SB4	SB4	01/25/21	15	<10	56	<250
S-17.5-SB4	SB4	01/25/21	17.5	<10	<50	<250
S-20-SB4	SB4	01/25/21	20	<20	610	<250
S-5-SB5	SB5	01/26/21	5	<10	<50	1,630
S-7.5-SB5	SB5	01/26/21	7.5	<10	<50	<250
S-10-SB5	SB5	01/26/21	10	<10	<50	760
S-12.5-SB5	SB5	01/26/21	12.5	<10	<50	<250
S-15-SB5	SB5	01/26/21	15	<10	82	580
S-17.5-SB5	SB5	01/26/21	17.5	<10	<50	<250
Site-Specific Cleanup Levels				2,470	4,800	5,810

Continued on Page 7

**TABLE 1
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS**

ExxonMobil ADC
2717/2731 Federal Avenue
Everett, Washington
Page 6 of 6

Sample Name	Well ID / Location	Date	Sample Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
S-20-SB5	SB5	01/26/21	20	<10	<50	<250
S-2.5-SB6	SB6	02/05/21	2.5	<10	2,800	<250
S-5-SB6	SB6	02/05/21	5	<10	57	<250
S-7.5-SB6	SB6	02/05/21	7.5	<10	<50	<250
S-10-SB6	SB6	02/05/21	10	<10	<50	<250
S-12.5-SB6	SB6	02/05/21	12.5	<10	<50	<250
S-15-SB6	SB6	02/05/21	15	<10	<50	<250
S-5-SB7	SB7	02/05/21	5	<10	<50	<250
S-7.5-SB7	SB7	02/05/21	7.5	<10	<50	<250
S-10-SB7	SB7	02/05/21	10	<10	<50	<250
S-12.5-SB7	SB7	02/05/21	12.5	<10	<50	<250
S-15-SB7	SB7	02/05/21	15	<10	<50	<250
Site-Specific Cleanup Levels				2,470	4,800	5,810

EXPLANATION:

feet bgs = Feet below ground surface

mg/kg = Milligrams per kilogram

TPHg = Total Petroleum Hydrocarbons as Gasoline in accordance with Ecology Method NWTPH-Gx

TPHd, TPHmo = Total Petroleum Hydrocarbons as Diesel and as Oil, respectively, in accordance with Ecology Method NWTPH-Dx

< = Less than the stated laboratory reporting limit

-- = Not Analyzed

All samples run with silica gel cleanup

Shaded values equal or exceed Site-Specific Cleanup Levels

a = Indicates light diesel range

b = Sample reanalyzed by laboratory

E = Reported result exceeds the calibration range and is an estimate

J = Indicates analyte was positively identified. Reported result is an estimate.

ExxonMobil ADC
Cardno 03144702.R04

APPENDIX A
FIELD PROTOCOL

Cardno
Soil Boring and Well Installation
Field Protocol

Preliminary Activities

Prior to the onset of field activities at the site, Cardno obtains the appropriate permit(s) from the governing agency(s). Advance notification is made as required by the agency(s) prior to the start of work. Cardno marks the borehole locations and contacts the local one call utility locating service at least 48 hours prior to the start of work to mark buried utilities. Borehole locations may also be checked for buried utilities by a private geophysical surveyor. Prior to drilling, the borehole location is cleared in accordance with the client's procedures. Fieldwork is conducted under the advisement of a registered professional geologist and in accordance with an updated site-specific safety plan prepared for the project, which is available at the job site during field activities.

Drilling and Soil Sampling Procedures

Cardno contracts a licensed driller to advance the boring and collect soil samples. The specific drilling method (e.g., hollow-stem auger, direct push method, or sonic drilling), sampling method [e.g., core barrel or California-modified split spoon sampler (CMSSS)] and sampling depths are documented on the boring log and may be specified in a work plan. Soil samples are typically collected at the capillary fringe and at 5-foot intervals to the total depth of the boring. To determine the depth of the capillary fringe prior to drilling, the static groundwater level is measured with a water level indicator in the closest monitoring well to the boring location, if available.

The borehole is advanced to just above the desired sampling depth. For CMSSSs, the sampler is placed inside the auger and driven to a depth of 18 inches past the bit of the auger. The sampler is driven into the soil with a standard 140-pound hammer repeatedly dropped from a height of 30 inches onto the sampler. The number of blows required to drive the sampler each 6-inch increment is recorded on the boring log. For core samplers (e.g., direct push), the core is driven 18 inches using the rig apparatus.

Soil samples are preserved in the metal or plastic sleeve used with the CMSSS or core sampler, in glass jars or other manner required by the local regulatory agency (e.g., Environmental Protection Agency Method 5035). Sleeves are removed from the sample barrel, and the lowermost sample sleeve is immediately sealed with Teflon™ tape, capped and labeled. Samples are placed in a cooler chilled to 4° Celsius and transported to a state-certified laboratory. The samples are transferred under chain-of-custody (COC) protocol.

Field Screening Procedures

Cardno places the soil from the middle of the sampling interval into a plastic re-sealable bag. The bag is placed away from direct sunlight for approximately 20 minutes, after which the tip of a photo-ionization detector (PID) or similar device is inserted through the plastic bag to measure organic vapor concentrations in the headspace. The PID measurement is recorded on the boring log. At a minimum, the PID or other device is calibrated on a daily basis in accordance with manufacturer's specifications using a hexane or isobutylene standard. The calibration gas and concentration are recorded on a calibration log. Instruments such as the PID are useful for evaluating relative concentrations of volatilized hydrocarbons, but they do not measure the concentration of petroleum hydrocarbons in the soil matrix with the same precision as laboratory analysis. Cardno trained personnel describe the soil in the bag according to the Unified Soil Classification System and record the description on the boring log, which is included in the final report.

Air Monitoring Procedures

Cardno performs a field evaluation for volatile hydrocarbon concentrations in the breathing zone using a calibrated PID or lower explosive level meter.

Groundwater Sampling

A groundwater sample, if desired, is collected from the boring by using Hydropunch™ sampling technology or installing a well in the borehole. In the case of using Hydropunch™ technology, after collecting the capillary fringe soil sample, the boring is advanced to the top of the soil/groundwater interface and a sampling probe is pushed to approximately 2 feet below the top of the static water level. The probe is opened by partially withdrawing it and thereby exposing the screen. A new or decontaminated bailer is used to collect a water sample from the probe. The water sample is then emptied into laboratory-supplied containers constructed of the correct material and with the correct volume and preservative to comply with the proposed laboratory test. The container is slowly filled with the retrieved water sample until no headspace remains and then promptly sealed with a Teflon-lined cap, checked for the presence of bubbles, labeled, entered onto a COC record and placed in chilled storage at 4° Celsius. Laboratory-supplied trip blanks accompany the water samples as a quality assurance/quality control procedure. Equipment blanks may be collected as required. The samples are kept in chilled storage and transported under COC protocol to a client-approved, state-certified laboratory for analysis.

Backfilling of Soil Boring

If a well is not installed, the boring is backfilled from total depth to approximately 5 feet below ground surface (bgs) with either neat cement or bentonite grout using a tremie pipe. The boring is backfilled from 5 feet bgs to approximately 1 foot bgs with hydrated bentonite chips. The borehole is completed from 1 foot bgs to surface grade with material that best matches existing surface conditions and meets local agency requirements. Site-specific backfilling details are shown on the respective boring log.

Well Construction

A well (if constructed) is completed using materials documented on the boring log or specified in a work plan. The well is constructed with slotted casing across the desired groundwater sampling depth(s) and completed with blank casing to within 6 inches of surface grade. No further construction is conducted on temporary wells. For permanent wells, the annular space of the well is backfilled with Monterey sand from the total depth to approximately 2 feet above the top of the screened casing. A hydrated granular bentonite seal is placed on top of the sand filter pack. Grout may be placed on top of the bentonite seal to the desired depth using a tremie pipe. The well may be completed to surface grade with a 1-foot thick concrete pad. A traffic-rated well vault and locking cap for the well casing may be installed to protect against surface-water infiltration and unauthorized entry. Site-specific well construction details including type of well, well depth, casing diameter, slot size, length of screen interval and sand size are documented on the boring log or specified in the work plan.

Well Development and Sampling

If a permanent groundwater monitoring well is installed, the grout is allowed to cure a minimum of 48 hours before development. Cardno personnel or a contracted driller use a submersible pump or surge block to develop the newly installed well. Prior to development, the pump is decontaminated by allowing it to run and re-circulate while immersed in a non-phosphate solution followed by successive immersions in potable water and de-ionized water baths. The well is developed until sufficient well casing volumes are removed so that turbidity is within allowable limits and pH, conductivity and temperature levels stabilize in the purge water. The volume of groundwater extracted is recorded on a log.

Following development, groundwater within the well is allowed to recharge until at least 80% of the drawdown is recovered. A new or decontaminated bailer is slowly lowered past the air/water interface in the well, and a water sample is collected and checked for the presence of non-aqueous phase liquid, sheen or emulsions. The water sample is then emptied into laboratory-supplied containers as discussed above.

Surveying

If required, wells are surveyed by a licensed land surveyor relative to an established benchmark of known elevation above mean sea level to an accuracy of +/- 0.01 foot. The casing is notched or marked on one side to identify a consistent surveying and measuring point.

Decontamination Procedures

Cardno or the contracted driller decontaminates soil and water sampling equipment between each sampling event with a non-phosphate solution, followed by a minimum of two tap water rinses. De-ionized water may be used for the final rinse. Downhole drilling equipment is steam-cleaned prior to drilling the borehole and at completion of the borehole.

Waste Treatment and Soil Disposal

Soil cuttings generated from the drilling or sampling are stored on site in labeled, Department of Transportation-approved, 55-gallon drums or other appropriate storage container. The soil is removed from the site and transported under manifest to a client- and regulatory-approved facility for recycling or disposal. Decontamination fluids and purge water from well development and sampling activities, if conducted, are stored on site in labeled, regulatory-approved storage containers. Fluids are subsequently transported under manifest to a client- and regulatory-approved facility for disposal or treated with a permitted mobile or fixed-base carbon treatment system.

ExxonMobil ADC
Cardno 03144702.R04

APPENDIX B
LABORATORY ANALYTICAL
RESULTS

ExxonMobil ADC
Cardno 03144702.R04

APPENDIX C
USCS & BORING LOGS

UNIFIED SOIL CLASSIFICATION SYSTEM KEY

MAJOR DIVISIONS		LTR	DESCRIPTION	MAJOR DIVISIONS		LTR	DESCRIPTION
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	Well-graded gravels or gravel sand mixtures, little or no fines	FINE GRAINED SOILS	SILTS AND CLAYS LL<50	ML	Inorganic silts and very fine-grained sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		GP	Poorly-graded gravels or gravel sand mixture, little or no fines			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		GM	Silty gravels, gravel-sand-clay mixtures			OL	Organic silts and organic silt-clays of low plasticity
		GC	Clayey gravels, gravel-sand-clay mixtures			MH	Inorganic silts, micaceous or diatomaceous fine-grained sandy or silty soils, elastic silts
	SAND AND SANDY SOILS	SW	Well-graded sands or gravelly sands, little or no fines		SILTS AND CLAYS LL>50	CH	Inorganic clays of high plasticity, fat clays
		SP	Poorly-graded sands or gravelly sands, little or no fines			OH	Organic clays of medium to high plasticity
		SM	Silty sands, sand-silt mixtures			Pt	Peat and other highly organic soils
		SC	Clayey sands, sand-clay mixtures		HIGHLY ORGANIC SOILS		

BLOW COUNTS REPRESENT THE NUMBER OF BLOWS OF A 140- OR 300-POUND HAMMER FALLING 30 INCHES TO DRIVE THE SAMPLER THROUGH EACH 6 INCHES OF PENETRATION.

FN:QuiklogUSCS.dwg

DASHED LINES SEPARATING UNITS ON THE LOG REPRESENT APPROXIMATE BOUNDARIES ONLY. ACTUAL BOUNDARIES MAY BE GRADUAL. LOGS REPRESENT SUBSURFACE CONDITIONS AT THE BORING LOCATION AT THE TIME OF DRILLING ONLY.



UNIFIED SOIL CLASSIFICATION SYSTEM AND LOG OF BORINGS SYMBOL KEY



BORING LOG EB3

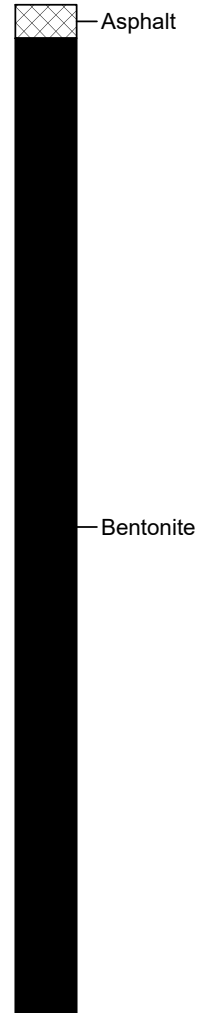
(Page 1 of 1)

Date Drilled: : 10/12/20
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 15' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Kerj Chappell, L.G. 2719
 Signature: : *Kerj Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.
5					SP			SAND: fine- to medium-grained, gray brown, dry; fine to coarse gravel, subangular; 40% recovery (0/10/50/40)
5					ML			SILT: dark brown to olive gray, damp, fine gravel, subangular; 50% recovery (0/90/0/10)
10					SW			SAND: fine- to coarse-grained, dark brown, moist; trace silt; 60% recovery (0/5/95/0)
10								100% recovery
10								100% recovery
15								100% recovery (0/5/90/5)
20								Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips Note: PID unavailable for use during fieldwork on 10/12/20.

Boring: EB3





BORING LOG EB6

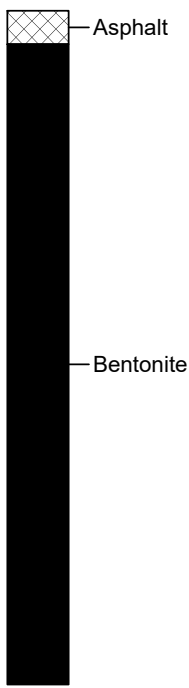
(Page 1 of 1)

Date Drilled: : 10/12/20
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 10' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.
5					GW			GRAVEL with Sand: fine to coarse gravel, subangular to subrounded; fine- to coarse-grained sand, light gray, dry, well graded; trace silt; 60% recovery (0/5/40/55) gray, well graded sand; trace silty clasts; 80% recovery (0/5/30/65)
10					SP			SAND with Gravel: medium- to coarse-grained, gray, damp, poorly graded; fine to coarse gravel, subangular to subrounded; trace silt; 80% recovery (0/5/75/20) 100% recovery (0/5/75/20)
15								Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips Note: PID unavailable for use during fieldwork on 10/12/20.
20								

Boring: EB6



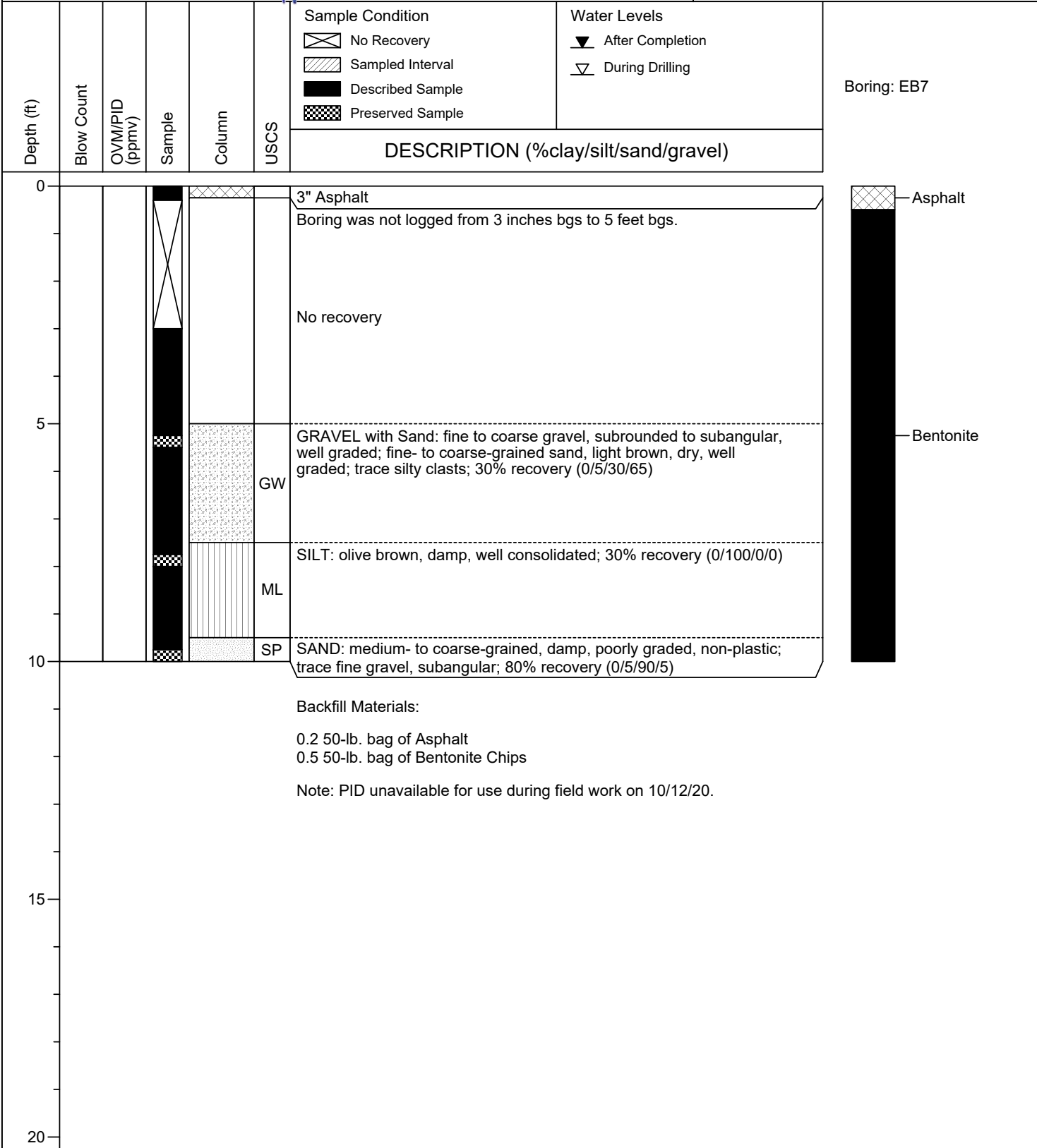


BORING LOG EB7

(Page 1 of 1)

Date Drilled: : 10/12/20
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 10' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*



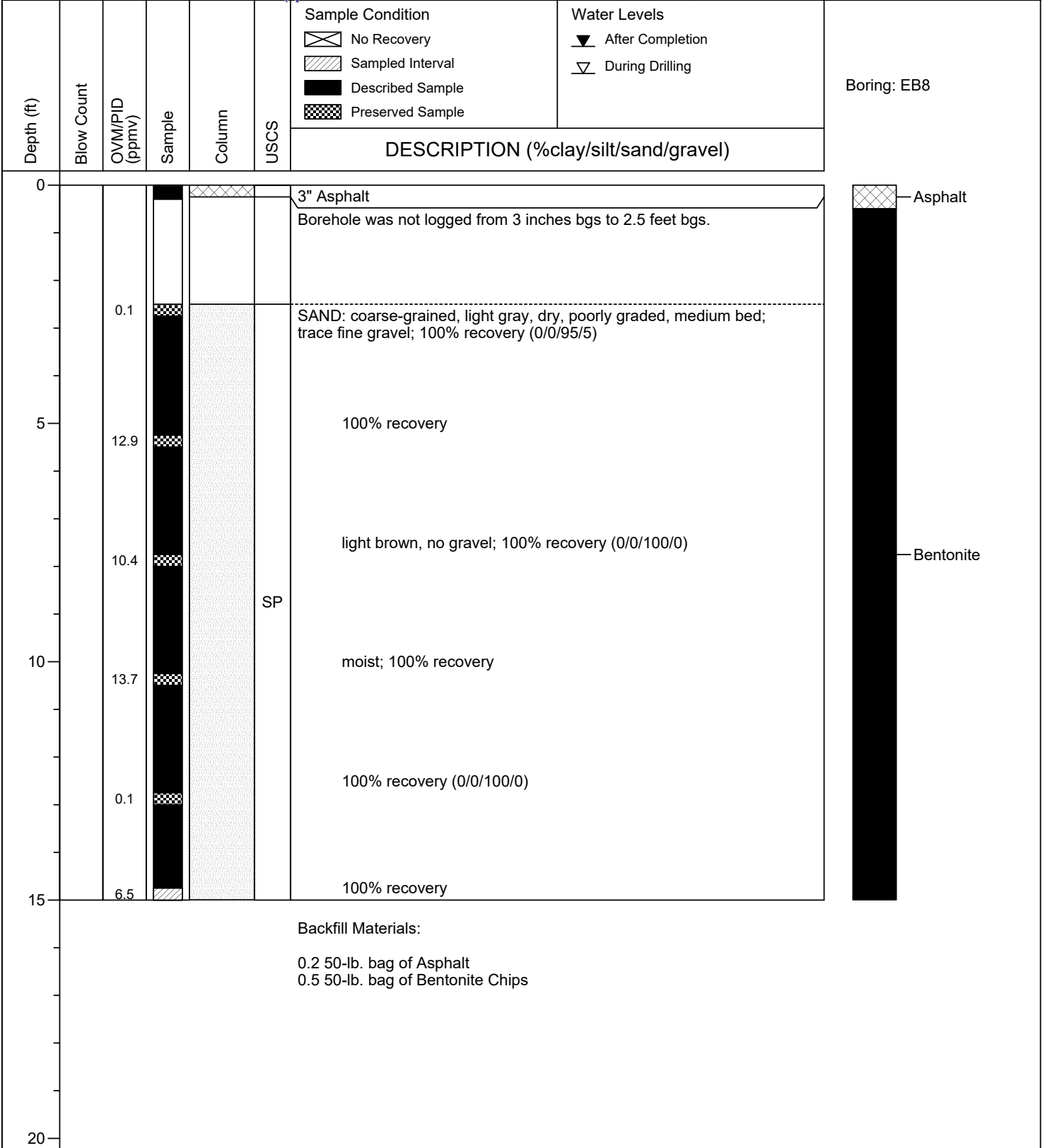


BORING LOG EB8

(Page 1 of 1)

Date Drilled: : 10/14/20
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 15' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Brett McLees
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*





BORING LOG EB20

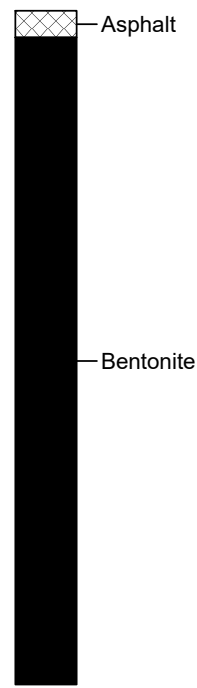
(Page 1 of 1)

Date Drilled: : 10/13/20
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 10' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Brett McLees
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.
2.7								SAND: coarse-grained, gray, damp, rounded, poorly graded, thin bed; trace gravel; 100% recovery (0/0/95/5)
5					SP			brown; 100% recovery
3.7								100% recovery
10					OH			CLAY: organic; wood debris; 100% recovery (100/0/0/0)
								Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips

Boring: EB20





BORING LOG EB22

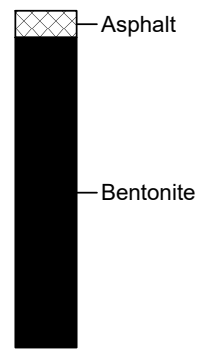
(Page 1 of 1)

Date Drilled: : 10/13/20
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 5' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Brett McLees
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.
0.0								SAND: coarse-grained, brown, damp, rounded, poorly graded, lamina; 100% recovery (0/0/100/0)
5					SP			Refusal at 5' bgs; 100% recovery
								Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips
10								
15								
20								

Boring: EB22



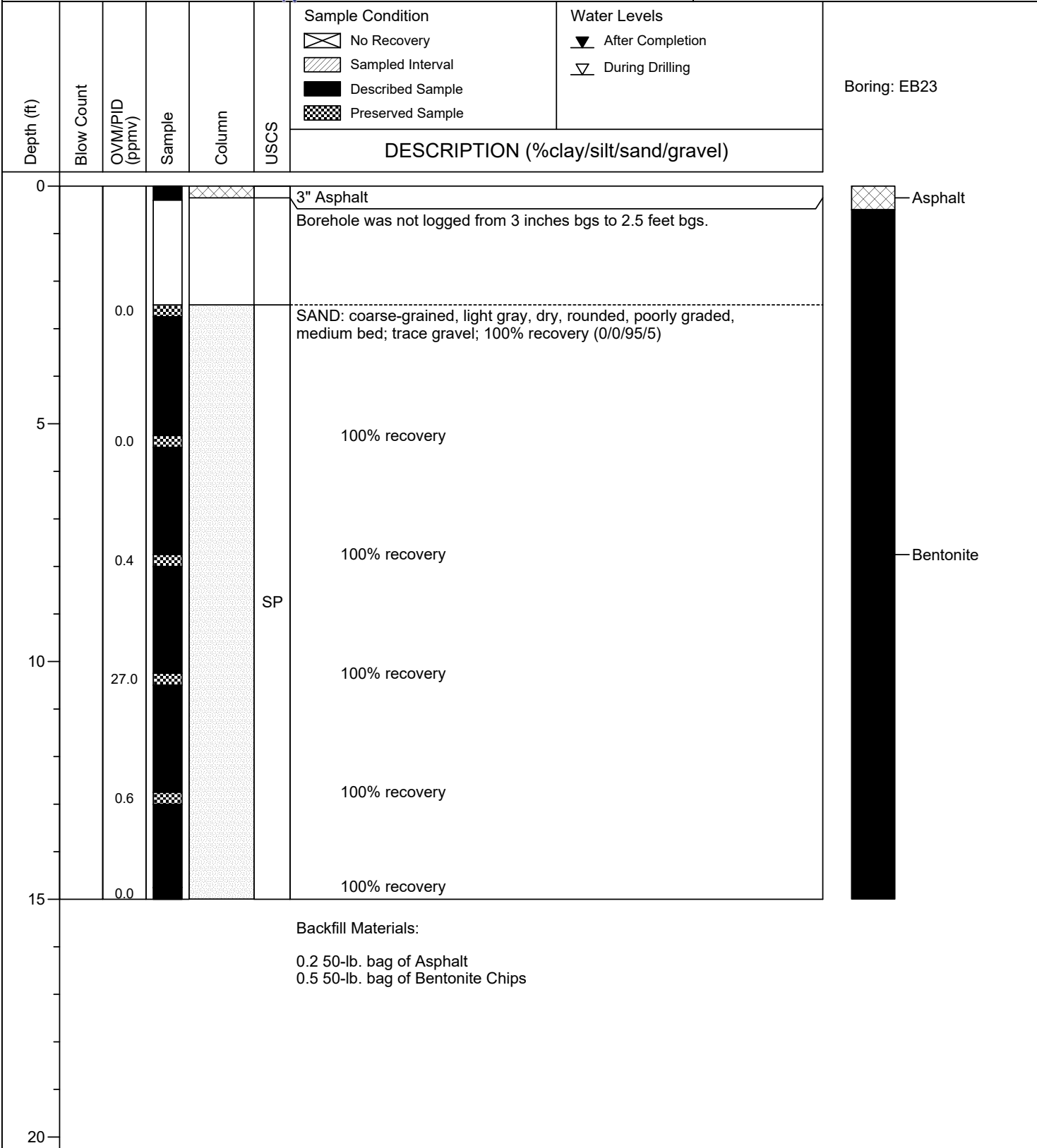


BORING LOG EB23

(Page 1 of 1)

Date Drilled: : 10/14/20
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 15' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Brett McLees
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*



Backfill Materials:
 0.2 50-lb. bag of Asphalt
 0.5 50-lb. bag of Bentonite Chips

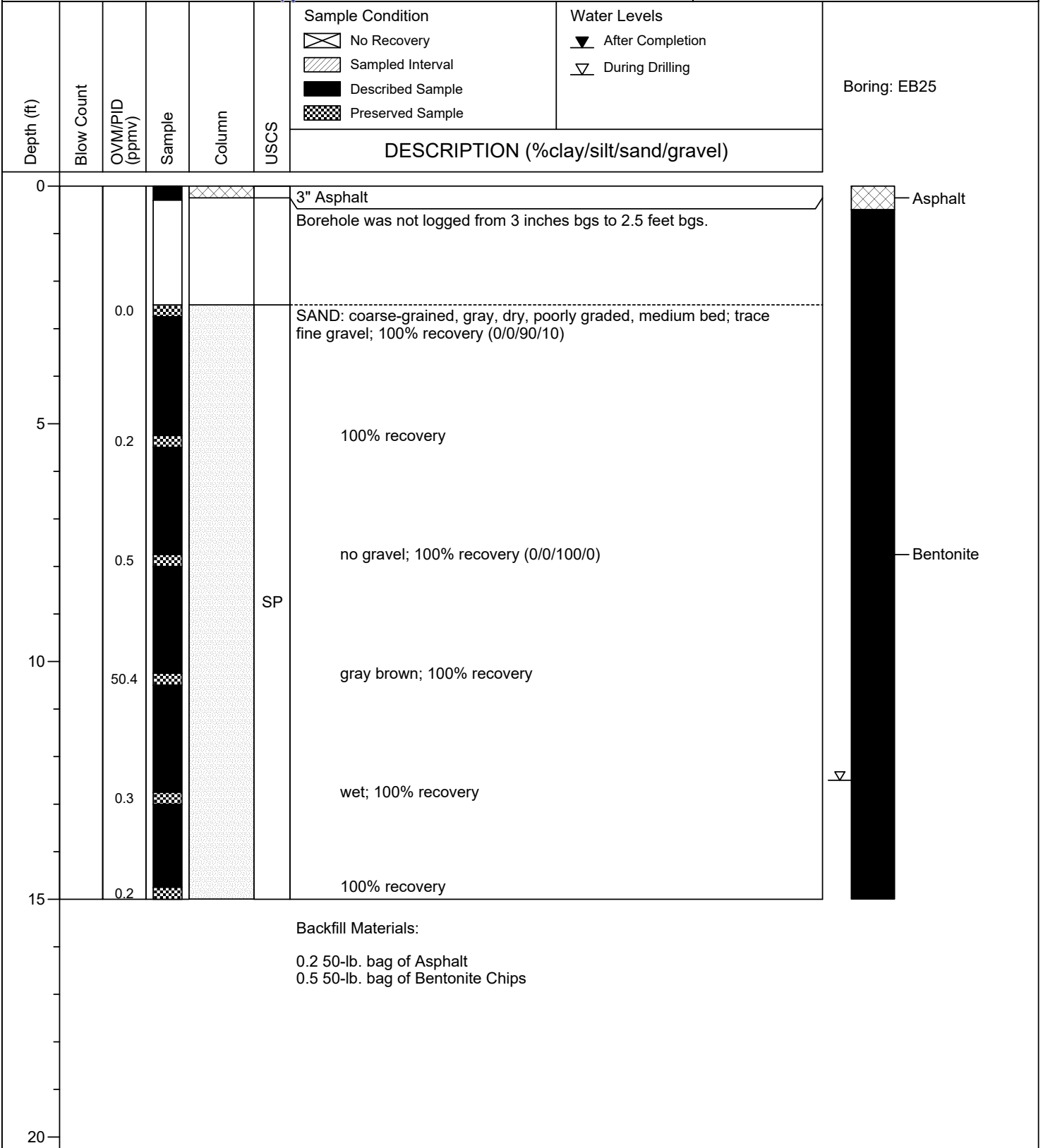


BORING LOG EB25

(Page 1 of 1)

Date Drilled: : 10/14/20
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 15' bgs
 First GW Depth: : 12.5' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Brett McLees
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*





BORING LOG EB28

(Page 1 of 1)

Date Drilled: : 10/14/20
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 15' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Brett McLees
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB28
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.		Asphalt
0.3						SAND: coarse-grained, gray, dry, rounded, very poorly graded, thin bed; trace fine gravel; 100% recovery (0/0/95/5)		
0.6					SP	100% recovery		Bentonite
0.2						damp; 100% recovery		
10						100% recovery		
Backfill Materials:								
0.2 50-lb. bag of Asphalt								
0.5 50-lb. bag of Bentonite Chips								
15								
20								



BORING LOG EB29

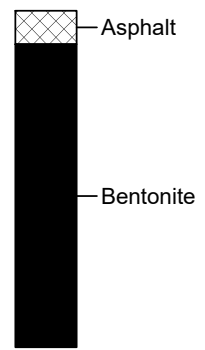
(Page 1 of 1)

Date Drilled: : 10/14/20
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 5' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Brett McLees
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.
0.1					SP			SAND: coarse-grained, brown, dry, poorly graded, thin bed; fine gravel; 100% recovery (0/0/90/10)
0.3								refusal at 5' bgs; 100% recovery
5								Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips
10								
15								
20								

Boring: EB29



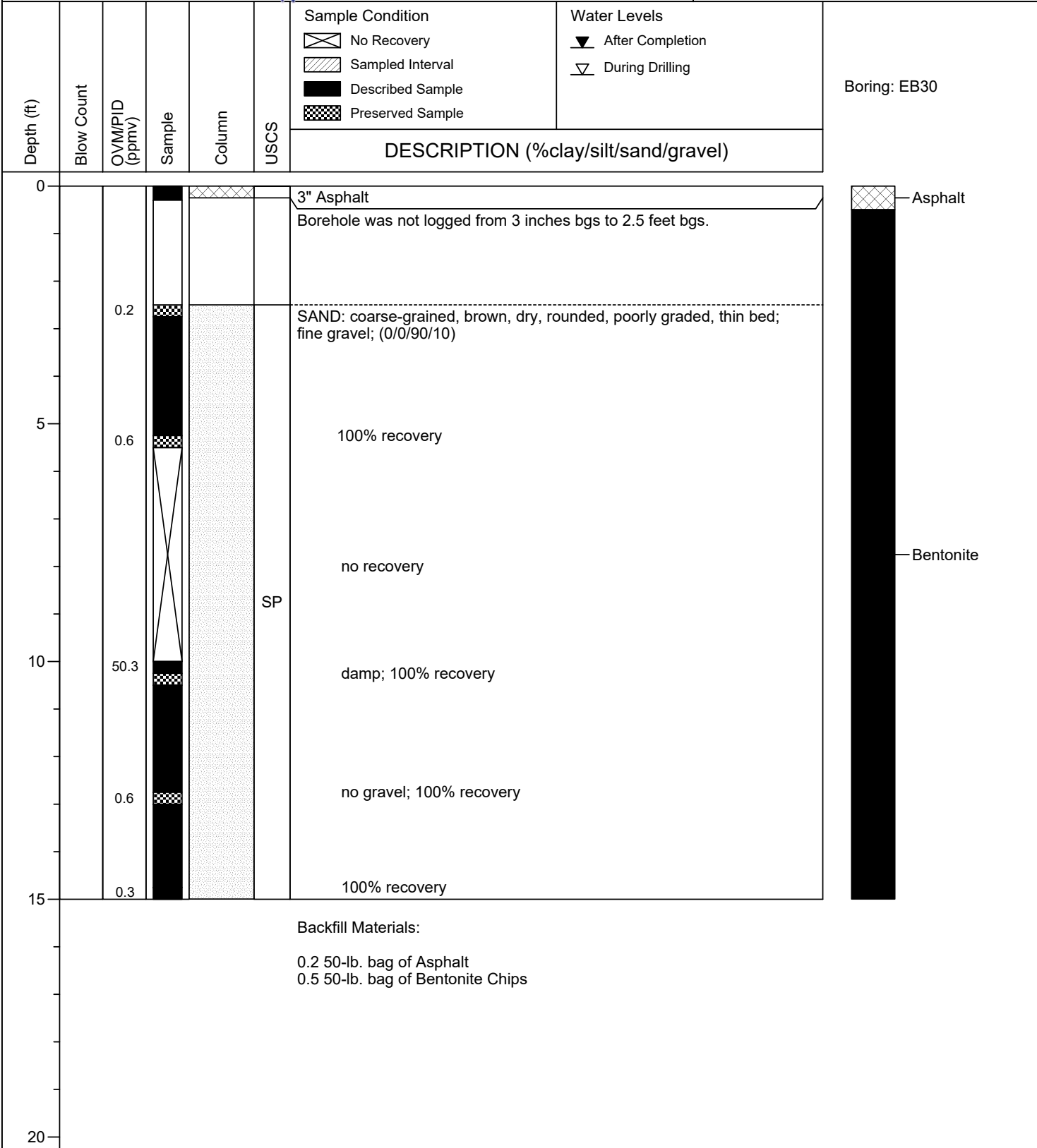


BORING LOG EB30

(Page 1 of 1)

Date Drilled: : 10/14/20
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 15' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Brett McLees
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*



Backfill Materials:
 0.2 50-lb. bag of Asphalt
 0.5 50-lb. bag of Bentonite Chips



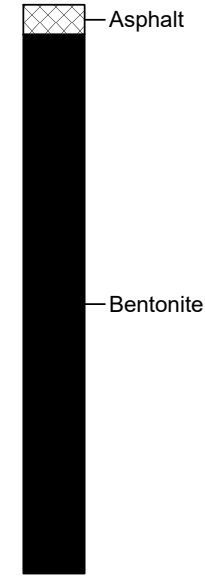
BORING LOG EB31

(Page 1 of 1)

Date Drilled: : 01/25/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 9.5' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								6" Asphalt
								Debris backfill
0.0					SW			SAND with Gravel: fine- to coarse-grained, gray brown, moist, well graded; fine to coarse gravel, angular to subangular; 50% recovery (0/5/55/40)
5								50% recovery
								Wood debris; 100% recovery
0.0					SP			SAND with Gravel: medium- to coarse-grained, brown, moist, poorly graded; fine to coarse gravel, subrounded; 75% recovery (0/10/70/20)
18.1					SP			SAND: coarse-grained, gray, damp, poorly graded; 100% recovery (0/5/95/0)
10								refusal at 9.5' bgs; 60% recovery



Backfill Materials:
 0.2 50-lb. bag of Asphalt
 0.5 50-lb. bag of Bentonite Chips

Boring: EB31

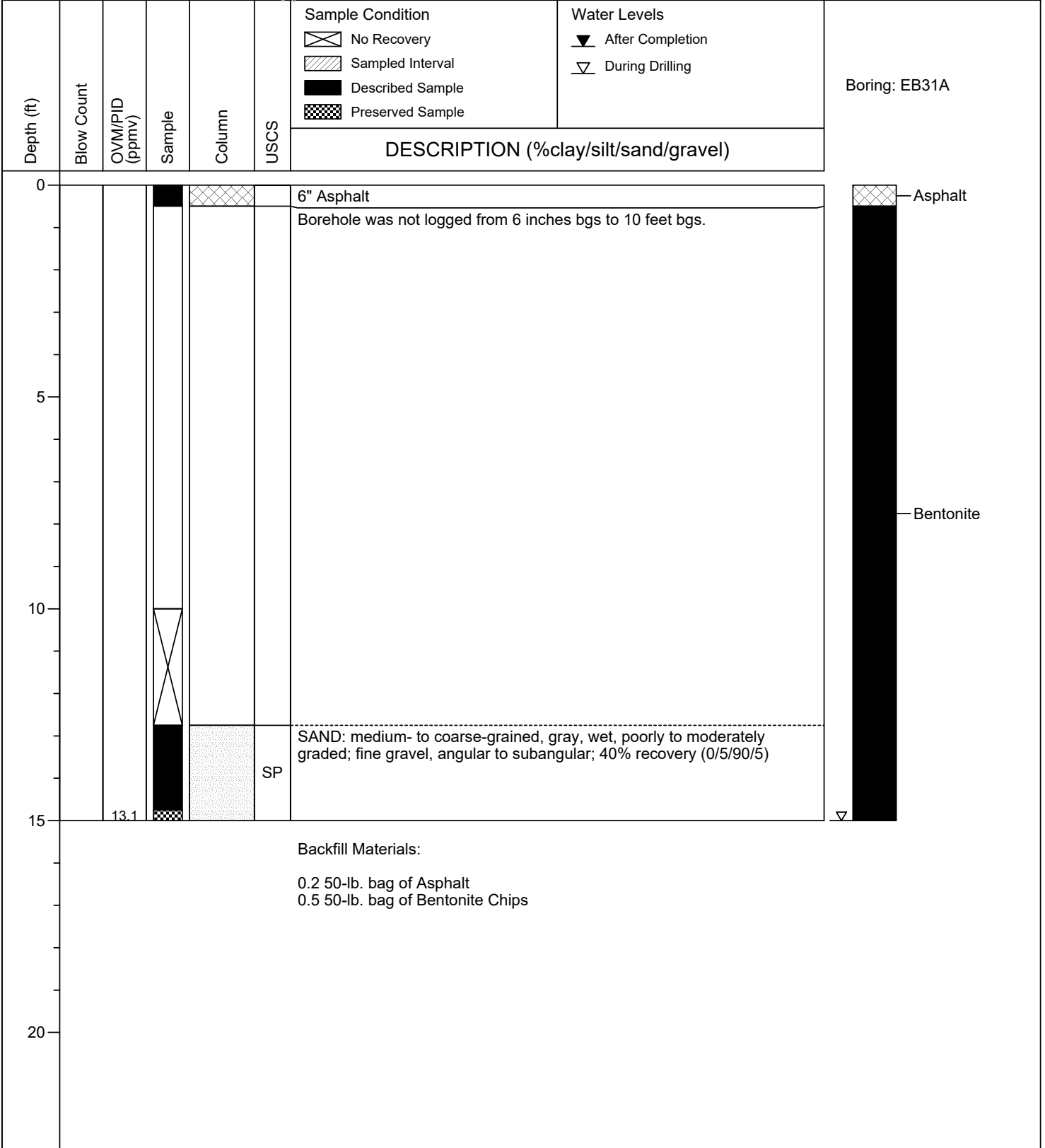


BORING LOG EB31A

(Page 1 of 1)

Date Drilled: : 01/27/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 15' bgs
 First GW Depth: : 15' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*



Boring: EB31A

Asphalt

Bentonite

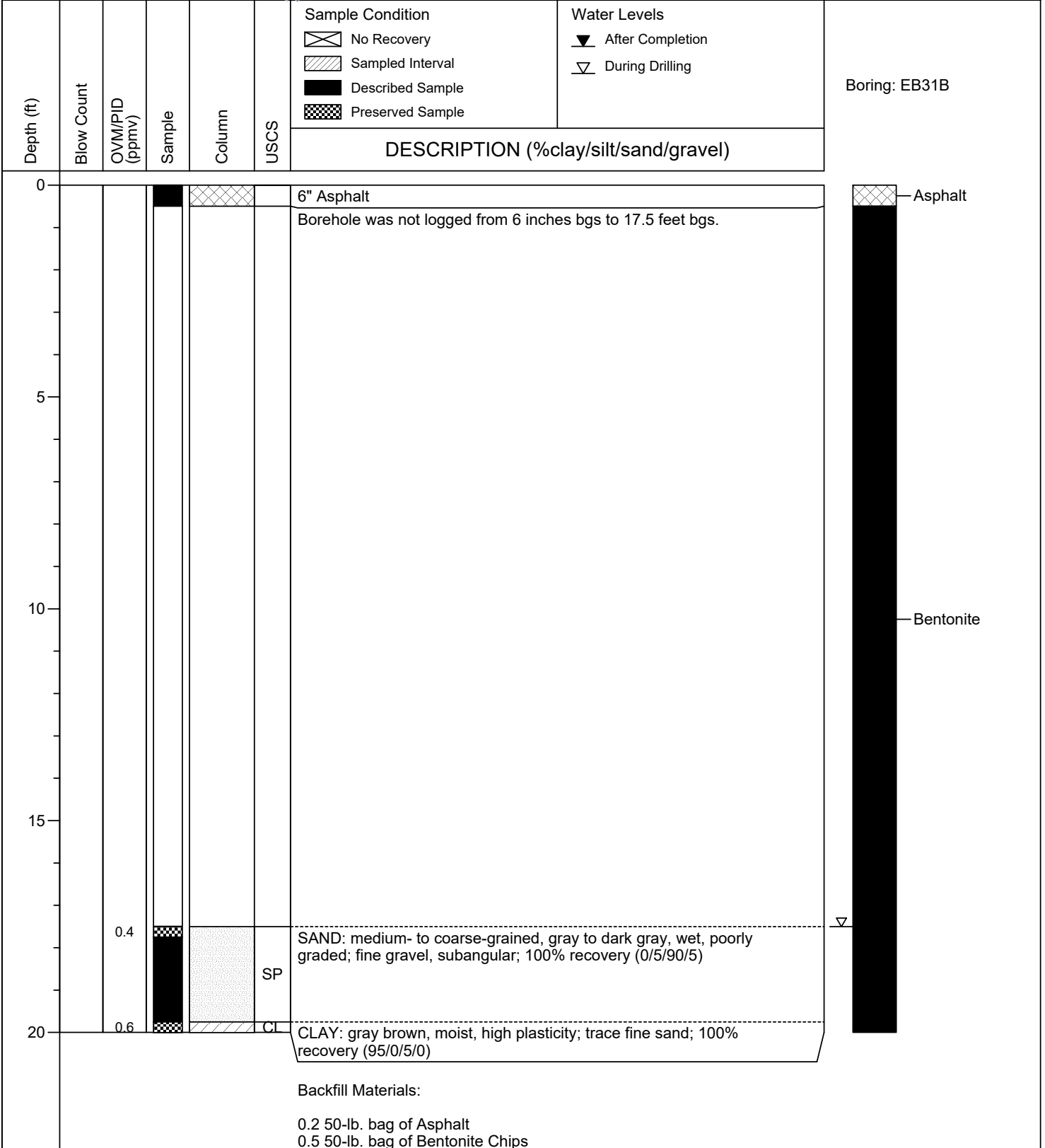


BORING LOG EB31B

(Page 1 of 1)

Date Drilled: : 01/27/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 20' bgs
 First GW Depth: : 17.5' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*





BORING LOG EB32A

(Page 1 of 1)

Date Drilled: : 01/27/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 20' bgs
 First GW Depth: : 10.5' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB32A
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		Asphalt
					GW	GRAVEL: fine to coarse, brown, dry, well graded, angular; fine- to medium-grained sand, moderately graded; trace silt; 100% recovery (0/5/10/85)		
					SP	SAND: fine- to medium-grained, gray, dry, moderately graded; fine to coarse gravel, angular; 100% recovery		
						Concrete debris		
5		0.3			SM	Silty SAND: fine- to medium-grained, brown, moist, moderately graded; trace fine gravel, angular, poorly graded; concrete debris present; 80% recovery (0/30/65/5)		
		0.6			SW	SAND with Gravel: fine- to coarse-grained, brown, damp, well graded; fine to coarse gravel, angular, well graded; 40% recovery (0/5/65/30)		
10		52.2				dark brown; 80% recovery (0/15/55/30)		Bentonite
					SP	SAND: medium- to coarse-grained, gray, wet, poorly graded; trace fine gravel; 100% recovery (0/5/90/5)		
					SM	Silty SAND: medium- to coarse-grained, dark brown to olive brown, wet; trace fine gravel; 100% recovery (0/15/80/5) @13.5' bgs: gray		
15		1.7				SAND: medium- to coarse-grained, gray, wet; trace fine gravel; 100% recovery (0/5/90/5)		
		0.7			SP	100% recovery		
20						100% recovery		

Backfill Materials:
 0.2 50-lb. bag of Asphalt
 0.5 50-lb. bag of Bentonite Chips



BORING LOG EB33

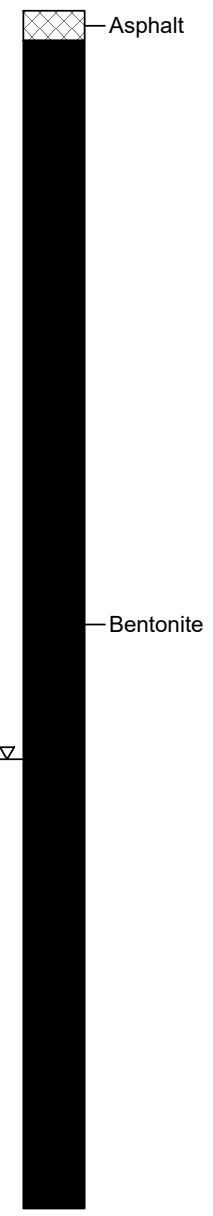
(Page 1 of 1)

Date Drilled: : 01/25/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 20' bgs
 First GW Depth: : 12.5' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Kerj Chappell, L.G. 2719
 Signature: : *Kerj Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
0								6" Asphalt Debris backfill
0.3					SW			SAND: medium- to coarse-grained, brown, dry, well graded; fine to coarse gravel, subangular to subrounded; 100% recovery (0/0/90/10)
7.2					SP			SAND with Gravel: medium- to coarse-grained, gray, moist; fine to coarse gravel, angular, poorly graded; trace silt; 100% recovery (0/5/60/35)
5.5					SM			Silty SAND: fine-grained, moist, poorly graded; fine to coarse gravel, subangular, well graded; 100% recovery (0/20/70/10)
66.9					SM			NAPL observed; 100% recovery
37.4					SP			SAND: medium- to coarse-grained, dark brown, wet, poorly graded; trace fine gravel, angular; NAPL observed; 100% recovery (0/10/85/5)
15.7					SW			SAND with Gravel: fine- to coarse-grained, black, wet, well graded; fine to coarse gravel, angular to subangular, well graded; NAPL observed; 100% recovery (0/10/55/35)
9.5					SW			NAPL observed; 100% recovery
20.1.7					SM			Silty SAND with Gravel: fine- to coarse-grained, black, wet, well graded; fine to coarse gravel, poorly graded; 100% recovery (0/20/50/30)

Boring: EB33



Backfill Materials:
 0.2 50-lb. bag of Asphalt
 0.5 50-lb. bag of Bentonite Chips



BORING LOG EB34

(Page 1 of 1)

Date Drilled: : 01/25/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 20' bgs
 First GW Depth: : 10' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB34
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		Asphalt
						Debris backfill		
0.5					SW	SAND with Gravel: fine- to coarse-grained, light brown, dry, well graded; fine to coarse gravel, subangular to angular, poorly graded; 100% recovery (0/5/65/30)		
						Concrete debris; 100% recovery		
5					SW	SAND with Gravel: fine- to coarse-grained, light brown, dry, well graded; fine to coarse gravel, subangular to angular, poorly graded; 100% recovery (0/5/65/30)		
4.3					SM	Silty SAND: fine- to medium-grained, black, moist, moderately graded; trace fine gravel, poorly graded; 100% recovery (0/15/80/5)		
10		28.6				SAND with Gravel: fine- to medium-grained, black, wet, moderately graded; fine to coarse gravel, subrounded, moderately graded; 100% recovery (0/15/70/15)		Bentonite
					SP	dark brown; 100% recovery		
15		14.1				100% recovery		
					SP	SAND: medium- to coarse-grained, dark brown, wet, poorly to moderately graded; trace silt; 100% recovery (0/5/90/5)		
						gray brown; 100% recovery		
20		0.9						

Backfill Materials:
 0.2 50-lb. bag of Asphalt
 0.5 50-lb. bag of Bentonite Chips

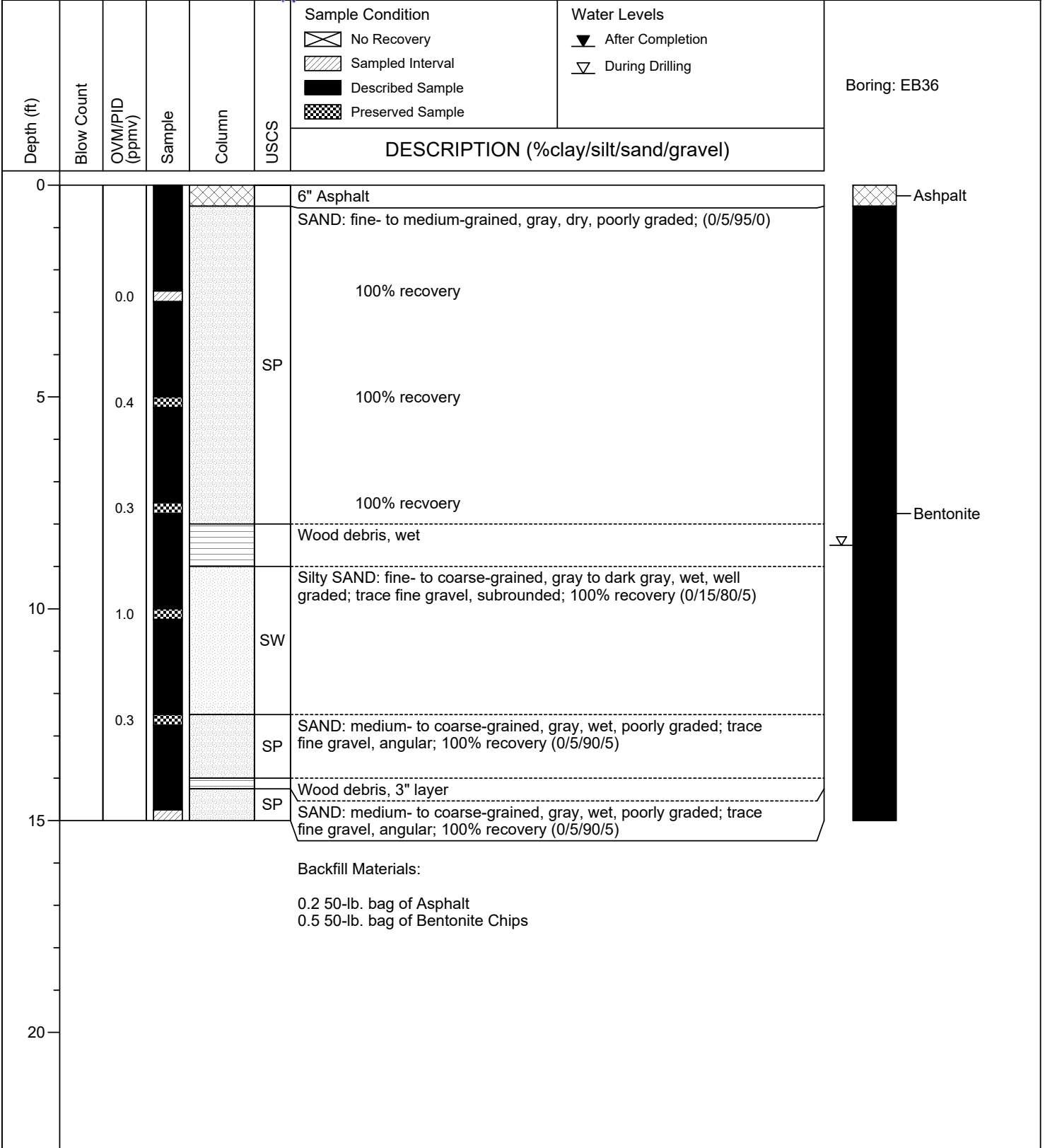


BORING LOG EB36

(Page 1 of 1)

Date Drilled: : 01/26/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 15' bgs
 First GW Depth: : 8.5' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*



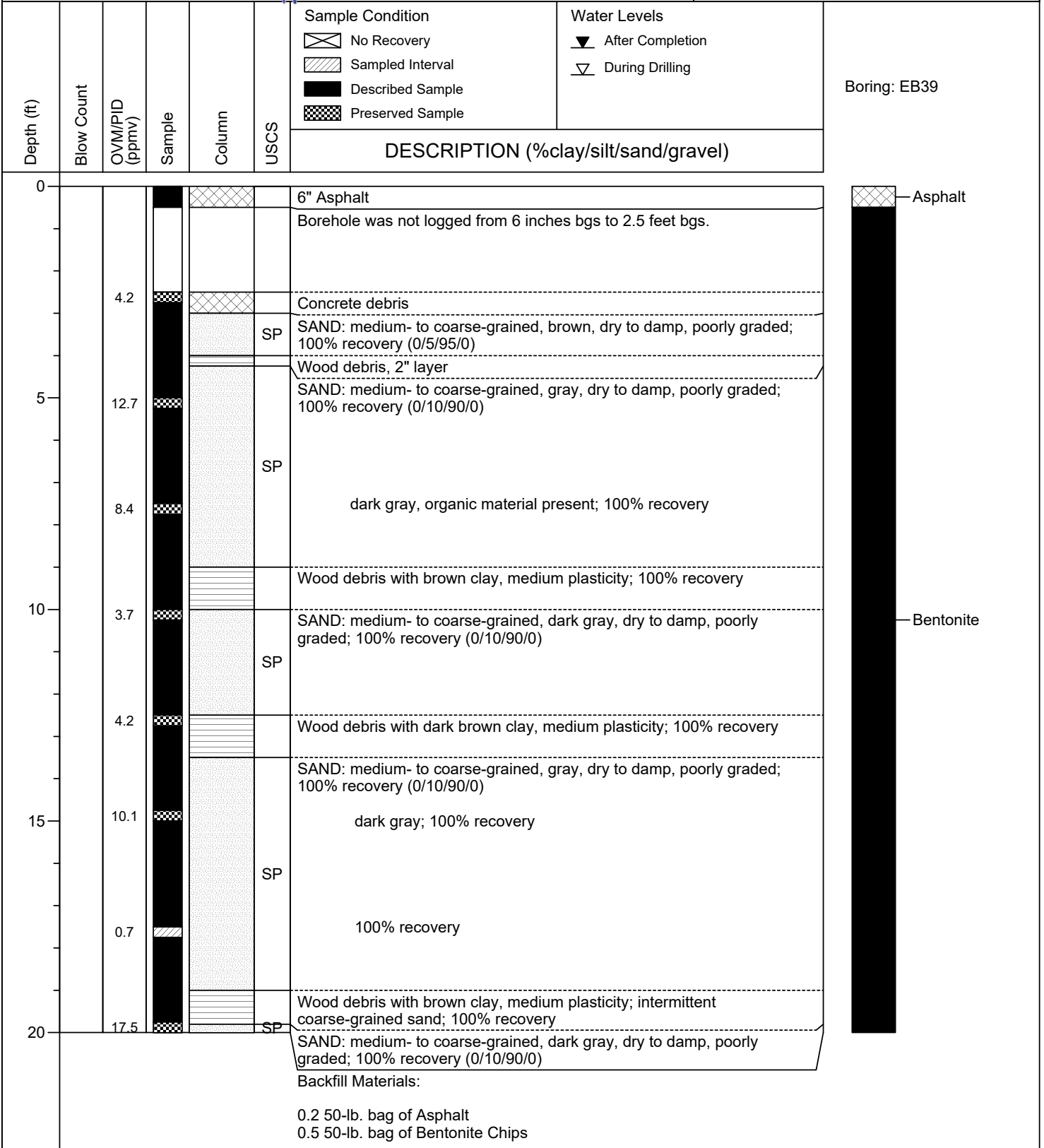


BORING LOG EB39

(Page 1 of 1)

Date Drilled: : 01/27/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 20' bgs
 First GW Depth: : N/A

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*



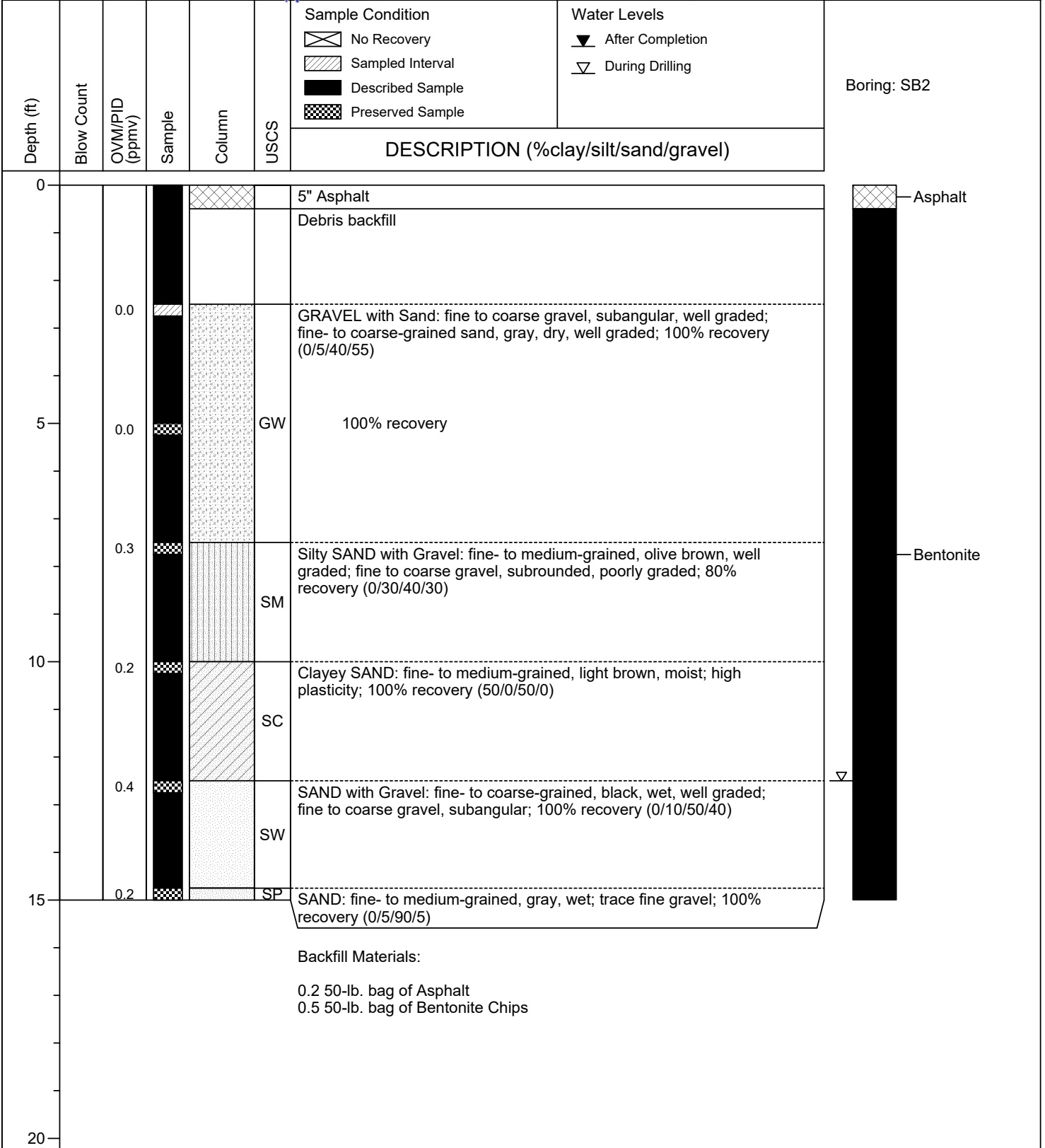


BORING LOG SB2

(Page 1 of 1)

Date Drilled: : 01/26/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 15' bgs
 First GW Depth: : 12.5' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*



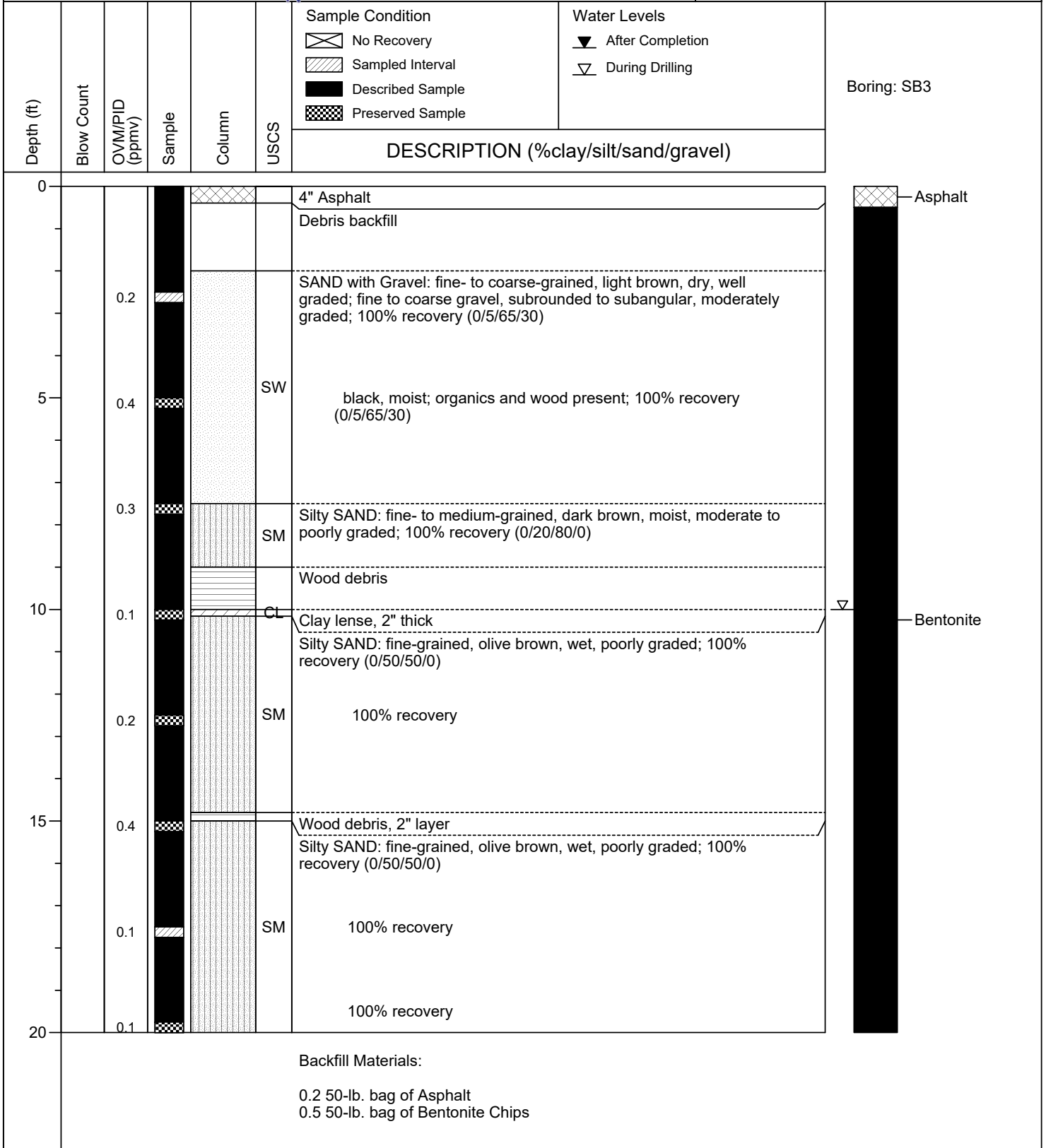


BORING LOG SB3

(Page 1 of 1)

Date Drilled: : 01/26/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 20' bgs
 First GW Depth: : 10' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*





BORING LOG SB4

(Page 1 of 1)

Date Drilled: : 01/25/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 20' bgs
 First GW Depth: : 10' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: SB4
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		Asphalt
						Debris backfill		
0.0					SW	SAND: fine- to coarse-grained, brown, dry; fine to coarse gravel, subangular; 80% recovery (0/5/85/10) wood debris		
0.2					SP	SAND: coarse-grained, gray, dry, poorly graded; trace fine gravel; 100% recovery (0/5/90/5)		
0.4					SP			
10		28.9			SP	SAND with Gravel: fine- to medium-grained, brown, wet, poorly graded; fine to coarse gravel, poorly graded, subrounded; trace silt; 30% recovery (0/5/50/45)	▽	Bentonite
15		24.5			SP	SAND: medium-grained, black, wet, poorly graded; 100% recovery (0/5/90/5)		
14.6					SP	medium- to coarse-grained, trace medium gravel, subrounded; 100% recovery		
12.2					SM	Silty SAND: medium- to coarse-grained, black, wet, moderate to poorly graded; trace fine gravel; 100% recovery (0/20/75/5)		
20		9.6			SP	SAND with Gravel: medium- to coarse-grained, gray, wet, moderately graded; fine to coarse gravel, poorly graded, subangular; 100% recovery (0/5/65/30) Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips		

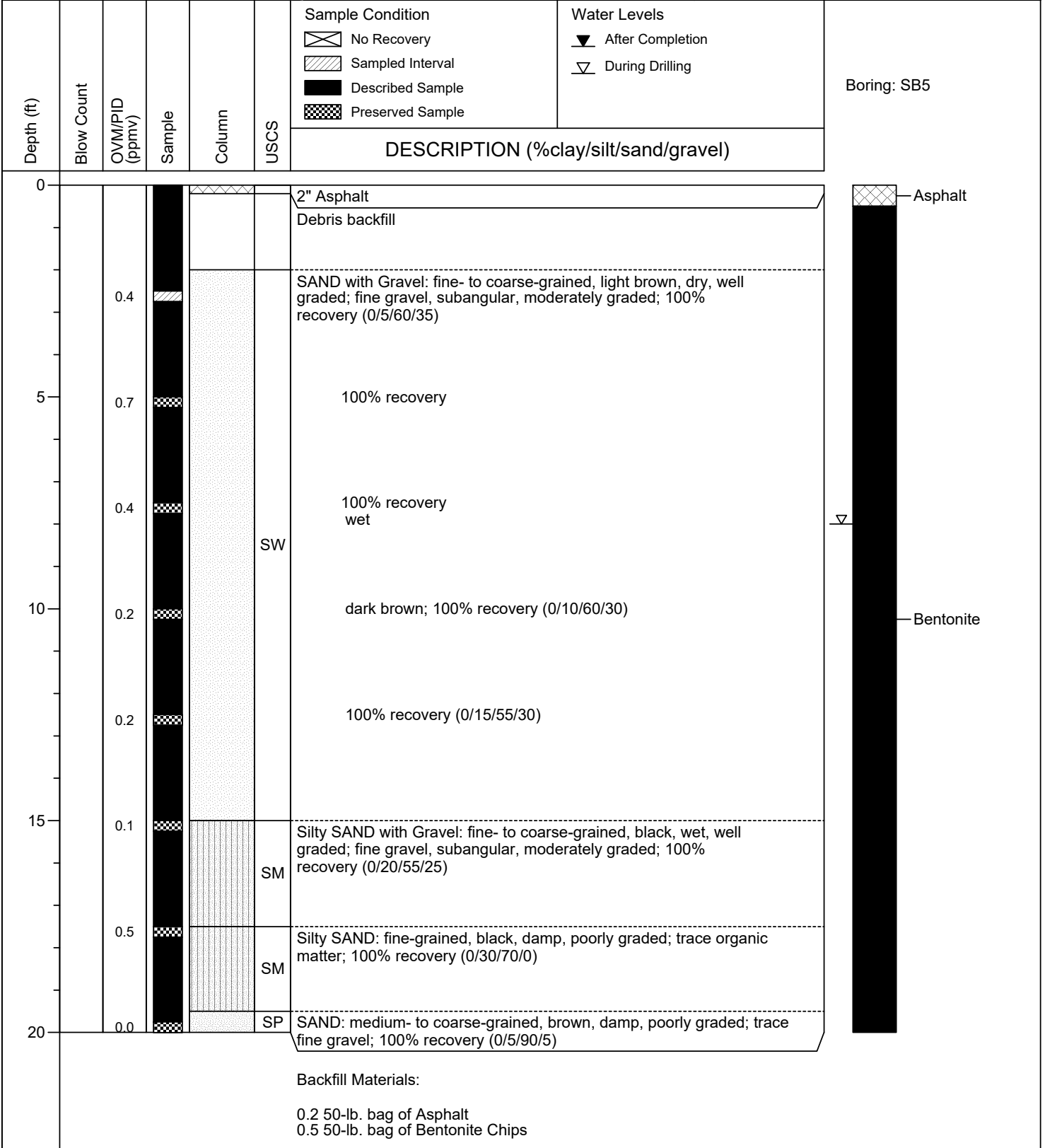


BORING LOG SB5

(Page 1 of 1)

Date Drilled: : 01/26/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Push Probe
 Sampling Method: : Dual Tube
 Borehole Diameter: : 3"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 20' bgs
 First GW Depth: : 8' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Paul Prevou
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*





BORING LOG GB1

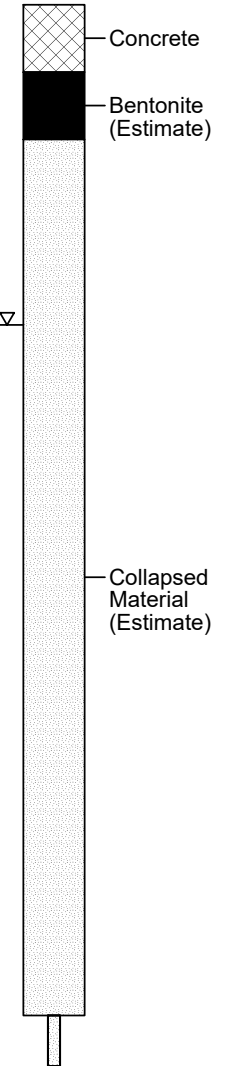
(Page 1 of 1)

Date Drilled: : 01/27/21
 Drilling Co.: : Holocene Drilling, Inc.
 Drilling Method: : Hollow-Stem Auger
 Sampling Method: : Split Spoon
 Borehole Diameter: : 8"
 Casing Diameter: : N/A
 Latitude : N/A
 Longitude : N/A
 Total Depth: : 31.5' bgs
 First GW Depth: : 9' bgs

Project No.: : 031447
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA
 Logged By: : Brett McLees
 Reviewed By: : Keri Chappell, L.G. 2719
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt Borehole was cleared to 5' bgs on 01/26/21 using air knife and hand tools. Borehole was not logged from 3 inches bgs to 5 feet bgs.
5	6 12 13							Fill: fine- to coarse-grained sand matrix, brown/gray, damp, rounded, well graded, thin bed; 80% wood debris; 100% recovery (0/0/20/0) cuttings saturated gray, wet; 50% wood debris; 100% recovery (0/0/50/0)
10	9 14 14							100% recovery
15	6 8 4							
20	1 2 3				CL			CLAY: brown (100/0/0/0) SAND: fine- to coarse-grained, gray, wet, rounded, thin bed; 100% recovery (0/0/100/0)
25	1 2 3				SW			100% recovery
30	3 4 5							100% recovery
35								Geotechnical Information: Truck-mounted rig No. 113, Diedrich D-120, 140-pound Auto Hammer Certification complete on November 19, 2020. Borehole collapsed during backfill activities due to high water table. Bottom of bentonite calculated via Cetco 3/8" Crumble standard volume. Backfill Materials: 2 50-lb. bags of Cement 1 50-lb. bag of Bentonite Chips
40								

Boring: GB1



ExxonMobil ADC
Cardno 03144702.R04

APPENDIX D
WASTE DOCUMENTATION

27031200861

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number VSQG	2. Page 1 of 1	3. Emergency Response Phone 888-785-7225	4. Waste Tracking Number 279650/D341718		
5. Generator's Name and Mailing Address ExxonMobil Oil Corporation, c/o Cardno 801 Second Avenue Suite 1150 Seattle, WA 98104 503-869-1196		Generator's Site Address (if different than mailing address) ExxonMobil Oil Corporation 2717 Federal Ave Everett, WA 98201				
6. Transporter 1 Company Name Advanced Chemical Transport Inc./DBA ACTenviro			U.S. EPA ID Number CAR000070540			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address US Ecology Idaho Inc Site B 20400 Lemley Rd Grandview, ID 83624 Facility's Phone: 208-834-2275			U.S. EPA ID Number IDD073114654			
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1 Non-RCRA/Non-DOT Regulated Material Solid (SOIL CUTTINGS)		2	DM	750	P	
2 Non-RCRA/Non-DOT Regulated Material Liquid (GROUNDWATER)		14	DM	7,000	P	
3.						
4.						
13. Special Handling Instructions and Additional Information Project Number 279650 Document#: D341718 1) 52930-0 EXU- <u>A2-SI</u> 2) 000052916-0 EXU- <u>A2-SI</u>						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name Brett McLees on behalf of ExxonMobil				Signature <i>[Signature]</i> on behalf of ExxonMobil		
				Month	Day	Year
				02	19	21
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Jody McKnight				Signature <i>[Signature]</i>		
				Month	Day	Year
				2	19	21
Transporter 2 Printed/Typed Name				Signature		
				Month	Day	Year
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
17b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number _____						
Facility's Phone: _____						
17c. Signature of Alternate Facility (or Generator)				Month	Day	Year
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name Javannah Richardson				Signature <i>[Signature]</i>		
				Month	Day	Year
				3	12	21

Cardno is an ASX-200 professional infrastructure and environmental services company, with expertise in the development and improvement of physical and social infrastructure for communities around the world. Cardno's team includes leading professionals who plan, design, manage, and deliver sustainable projects and community programs. Cardno is an international company listed on the Australian Securities Exchange [ASX:CDD].

Cardno Zero Harm

Cardno
ZERO
HARM
EVERY JOB. EVERY DAY.

At Cardno, our primary concern is to develop and maintain safe and healthy conditions for anyone involved at our project worksites. We require full compliance with our Health and Safety Policy Manual and established work procedures and expect the same protocol from our subcontractors. We are committed to achieving our Zero Harm goal by continually improving our safety systems, education, and vigilance at the workplace and in the field.

Safety is a Cardno core value and through strong leadership and active employee participation, we seek to implement and reinforce these leading actions on every job, every day.