



# TERRA ASSOCIATES, Inc.

Consultants in Geotechnical Engineering, Geology  
and  
Environmental Earth Sciences

June 12, 2023  
Revised August 1, 2023  
Project No. T-8829

Mr. Alex Garcia Mendoza  
Trammell Crow Company  
600 University Street, Suite 2912  
Seattle, Washington 98101

Subject: Critical Aquifer Recharge Areas Evaluation  
PSE Operational Training Center  
325 Todd Road Northwest  
Puyallup, Washington

Reference: Geotechnical Report, PSE Operational Training Center, Project No. T-8829,  
prepared by Terra Associates, Inc., dated April 6, 2023

Dear Mr. Garcia Mendoza:

As requested, we performed an aquifer recharge and wellhead protection area review of the subject site. The purpose of our study was to determine if the site is located within the boundaries of aquifer recharge areas or wellhead protection areas as defined in Chapter 21.06.1110 (Designation, mapping and rating) of the Puyallup Municipal Code (PMC) and to conduct a hydrogeologic assessment of the site in accordance with the requirements of PMC 21.06.1150 (Critical area report requirements for critical aquifer recharge areas).

The site is located within the boundaries of an aquifer recharge area and wellhead protection areas per the defining criteria given in PMC 21.06.1110.3(a) and 21.06.1110.3(b), respectively. The site location is rated as a high susceptibility aquifer recharge area per the criteria given in PMC 21.06.1110.4(a). Review of the Washington State Department of Health (WSDOH) Source Water Assessment Program (SWAP) interactive GIS mapping tool (<https://fortress.wa.gov/doh/swap/index.html>) shows the all but the southwestern portion of the site overlain by the 6-month, 1-year, 5-year, and 10-year time-of-travel (TOT) zones of two wells operated by a Group A water system identified as Mountainview-Edgewood Water Company (MEWC). Smaller portions of the site are within the 5-year and 10-year TOT zones of a City of Puyallup (COP) well, and the 10-year TOT zone of a Group A water system well operated by DeChaux Mutual Water (DMW). The position of the site relative to the time-of-travel plots of these systems is shown on Figure 1. The SWAP map shows the site within the boundary of the Puyallup-White Watershed.

## SITE DESCRIPTION

The site is a vacant, triangular-shaped, 6.17-acre parcel located northeast of and adjacent to the intersection of Todd Road NW and 4th Street NW in Puyallup, Washington. A northwest-trending Union Pacific Railroad right-of-way (ROW) borders the northern site margin. The site location is near the northern margin of the Puyallup River alluvial plain, approximately 3,200 feet north of the river channel. The approximate site location is shown on Figure 2.

Site topography is relatively flat with a topographic relief of about 8 feet between the western and southeastern site margins. Topographic information obtained from the Pierce County Public GIS (PCPGIS) interactive mapping tool website (<https://matterhornwab.co.pierce.wa.us/publicgis/>) shows site elevations ranging between Elev. 40 at the western site margin and about Elev. 48 near the southeastern site corner. Maximum surface gradients at the site are about 3 percent.

Historical aerial photographs of the site obtained from the PCPGIS website show residential farm buildings occupying the southwestern and central portions of the site until about 2018. An equipment and materials storage yard occupies the central portion of the site in aerial photographs from 2020 and 2021. Site vegetation consists primarily of grasses with scattered mature coniferous and deciduous trees. A significant portion of the former storage yard area is surfaced with gravel.

**OTHER CRITICAL AREAS REVIEW**

The PCPGIS website shows several environmentally-significant surface features located within 1,300 feet of the site. The type of surface feature and general direction and distance from the site are given below: The approximate location of each surface feature relative to the site is shown on Figure 3.

Type of Feature	Feature ID	Distance (feet) <sup>1</sup>	Direction	Hydrogeologic Position Relative to Site
Wetland <sup>2</sup>	WL1	43	West	Downgradient
	WL2	830	West-Northwest	Downgradient
Regulated Floodplain	RFP1	820	Northeast	Upgradient
	RFP2	510	North-Northwest	Crossgradient
	RFP3	350	Northwest	Downgradient
	RFP4	325	West	Downgradient
	RFP5	75	West	Downgradient
	RFP6	540	West	Downgradient
	RFP7	950	Northwest	Downgradient
	RFP8	1,275	West	Downgradient
	RFP9	880	South	Crossgradient
	RFP0	1,010	South	Crossgradient
	RFP11	820	South-Southeast	Crossgradient
	RFP12	1,120	Southeast	Upgradient
Floodway	FW1	620	West	Downgradient
	FW2	820	South-Southeast	Crossgradient
	FW3	1,120	Southeast	Upgradient
Stream	STRM1	360	Northwest	Downgradient
	STRM2	1,150	Southeast	Upgradient

1 – Distance from site perimeter to closest edge of feature.

2 – Delineated wetland area per Puyallup GIS

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We evaluated site conditions for the presence of geologically hazardous areas as part of our geotechnical engineering study of the site. The results of our evaluation are discussed in Section 3.4 of the referenced geotechnical report.

## **PROJECT DESCRIPTION**

A schematic site plan by Zervas, dated July 21, 2023, shows the project consisting of a centrally-located, 33,837 square-foot building with outdoor training features located west of the building. The outdoor training features include several smaller buildings, covered areas, a burn pit, substation yard and other training features.

Stormwater runoff will be conveyed to a detention pond located in the eastern portion of the site. Pond elevations are currently not available. The proposed development plan is shown on Figure 4.

## **SUBSURFACE CONDITIONS**

### **Soils**

We explored subsurface conditions at the site by drilling 13 test borings to depths of 10 to 30 feet with a track-mounted drill rig using hollow-stem auger drilling methods, and by advancing two cone penetration tests (CPTs) to maximum depths of 60 and 70 feet. The boring logs and CPT plots are presented in Appendix A. The approximate boring and CPT locations are shown on Figure 4.

The soils observed in the test borings are alluvial deposits comprised predominantly of interbedded silt to clayey silt, silty fine sand, and sand. The CPT data indicates that the alluvial deposits below a depth of 45 feet consist primarily of silt to clayey silt; however, medium dense to very dense sand deposits are indicated below a depth of about 67 feet in CPT-2. We observed up to approximately four feet of fill consisting of loose to medium dense gravel with silt and sand to silty gravel with sand in Test Borings B-8, B-12, and B-13.

The *Geologic Map of the Tacoma 1:100,000-Scale Quadrangle, Washington*, by J.E. Schuster, A.A Cabibbo, J.F. Schilter, and I.J. Hubert (2015) shows surficial geology at the site mapped as Holocene alluvium (Qa). The soils observed in the subsurface explorations are consistent with this geologic map unit. The referenced geologic map is attached as Figure 5.

### **Groundwater**

Wet soils indicative of groundwater saturation were encountered below depths ranging from about 4.5 feet in Borings B-1 through B-5 to about 10 feet in Borings B-8, B-10, B-11, and B-13 during drilling. Groundwater levels at the site will fluctuate on a seasonal basis with highest levels occurring during the normally wet winter and spring months. This seasonal increase of groundwater levels was observed by monitoring of wells installed in Borings B-11 and B-13, which showed water levels generally fluctuating between depths of about 7.2 and 7.8 feet in B-11 and between depths of about 8 and 8.4 feet in B-13 between mid-January 2023 and mid-April 2023.

Based on area topography, our observations of surface drainage patterns in the site vicinity, and the northwesterly direction of flow in the Puyallup River approximately 3,200 feet south of the site, we expect that the direction of shallow groundwater flow beneath the site is generally to the west-northwest.

## **Hydrogeology**

Based on our study, two primary groundwater regimes are present in the site vicinity. These include the relatively shallow Puyallup Valley water table aquifer and the deeper Vashon advance outwash aquifer (Qva aquifer). The Qva aquifer includes the Redondo-Milton Channel (RMC) aquifer, which according to the MEWC 2022 Water Quality Report, is the aquifer that MEWC Wells 1R and 8 draw from.

## **WATER WELL REVIEW**

We reviewed available well log records obtained from the Washington State Department of Ecology (DOE) Well Report Viewer website (<https://fortress.wa.gov/ecy/wellconstruction/map/WCLSWebMap/default.aspx>) for existing water wells located in the site vicinity. Our research of the DOE database found driller's logs or related documents associated with 25 wells potentially located within a 1,300 foot radius from the site. Further review determined that four of the wells are located outside of the search radius and sixteen of the wells had been decommissioned or were used for irrigation or dewatering purposes. Five water wells used for domestic or municipal purposes are potentially located within the 1,300-foot search radius.

The approximate locations of the five wells relative to the subject site are shown on Figure 6. Documented well details and driller's logs are attached as Appendix B. Brief summaries of the five wells identified in the DOE database search are given below:

### 1. Burton Wulf Well (SE ¼ of SE ¼ of Section 16, Township 20N, Range 4E):

The DOE database incorrectly lists the well owner as Burton Wulf. Located approximately 970 feet north and crossgradient from the subject site. The street address of the well is not given. The well is finished in sand and gravel deposits, interpreted to be the RMC aquifer, that underlies about 238 feet of soil described as clay and silt. The static water level in the well is reported to be at a depth of 4 feet.

### 3. Frank DeChaux Well (DOE Well ID AEF399) (SE ¼ of SE ¼ of Section 16, Township 20N, Range 4E):

This is a Group A well operated by DeChaux Mutual Water. The well is located approximately 1,055 feet north and crossgradient from the subject site. The street address of the well is not given. The well was drilled to a depth of 103 feet and screened in coarse sand and gravel deposits, interpreted to be the RMC aquifer, between depths of 83 and 93 feet. The sand and gravel aquifer is overlain by about 83 feet of soil described as clay or hardpan. The static water level in the well is reported to be at the ground surface.

### 4. Guy Abbey Well (NE ¼ of NE ¼ of NE ¼ of Section 21, Township 20N, Range 4E):

Located approximately 485 feet north and crossgradient from the subject site. The street address of the well is not given. The well was driven to a depth of 12 feet in the relatively-shallow Puyallup Valley water table aquifer. The soils are described as "soil and sand." The static water level in the well is reported to be at a depth of 10 feet.

The driller's log indicates that the well was constructed in 1944. The purpose of the well is not given. We were unable to determine if the well is still in use. Due to its shallow depth, it is unlikely that the well is used for domestic purposes if still operational. Based on this, we have excluded this well from further discussion.

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19. Mountainview-Edgewood Water Company Well 1R (DOE Well ID AEC906) (SW ¼ of SW ¼ of Section 15, Township 20N, Range 4E):

Group A well located approximately 1,300 feet northeast and crossgradient from the subject site. The well address is 4623 Meridian E. The well was drilled to a depth of 100 feet and screened in soils described as sand, gravel, and cobbles between depths of 66.5 and 86.5 feet. The overlying soils are described as gravel, cobbles, and sand. The aquifer is underlain by soils described as till at a depth of 90 feet. The static water level in the well is reported to be at a depth of 18 feet. As indicated in the MEWC 2022 Water Quality Report, the well draws water from the RMC aquifer.

21. Mountainview-Edgewood Water Company Well (SW ¼ of SW ¼ of Section 15, Township 20N, Range 4E):

Located approximately 1,300 feet northeast and crossgradient from the subject site. The well identification number is not given. The street address of the well is not given. The well is cased to a depth of 92 feet with casing perforations made gravel and sand between 70 and 82 feet. Soils overlying the perforated depths consist predominantly of sand and gravel with soil described as clay between 5 and 22 feet. The static water level in the well is reported to be at a depth of 2.8 feet. As indicated in the MEWC 2022 Water Quality Report, the well draws water from the RMC aquifer.

We were unable to locate driller's logs for the 884-foot deep City of Puyallup Rec Center Well No. 17 (DOE Well ID AAB894) or the 98-foot deep Mountainview-Edgewood Water Company Well No. 8 (DOE Well ID ACV818) shown as Group A wells on the WSDOH SWAP map.

## **WELL WATER QUALITY REVIEW**

We researched available water quality data for wells located within 1,300 feet of the site using the Washington State Department of Health, Office of Drinking Water (ODW) interactive web site (<https://fortress.wa.gov/doh/eh/portal/odw/si/FindWaterSystem.aspx>). Water quality data exists for three of the five wells. The results of water quality monitoring of each well are summarized below:

Mountainview-Edgewood Water Company Well 1R, Source 10 (DOE Well ID AEC906)

There are no recorded exceedances in samples collected from this well. Total coliform has been present in samples collected from the distribution system.

Mountainview-Edgewood Water Company Well 8, Source 8 (DOE Well ID AEC906)

There are no recorded exceedances in samples collected from this well. Total coliform has been present in samples collected from the distribution system.

DeChaux Mutual Water (DOE Well ID AEF399)

There are no recorded exceedances in samples collected from this well. Total coliform has been present in samples collected from the distribution system.

## **DISCUSSION**

The four domestic water wells located within 1,300 feet of the site are completed in the RMC aquifer below depths ranging between 66.5 and 241 feet. The recorded static water levels in these wells are between the ground surface and a depth of 18 feet, indicating the RMC aquifer has a vertical flow gradient at the well locations. Additionally, the RMC aquifer at three of the four well locations is overlain by soils described as clay and silt or hardpan. Considering these hydrogeologic conditions, it is our opinion that the planned site development would not result in significant adverse impacts to the water quality or recharge of the RMC aquifer.

The relatively-shallow groundwater conditions at the site are consistent with the Puyallup Valley water table aquifer. Based on our review, there are no wells within 1,300 feet of the site that draw from the Puyallup Valley water table aquifer for domestic purposes. However, the shallow water table aquifer does contribute to support of the downgradient surface water features and other critical areas identified on Figure 3.

Potential impacts of the planned site development to the shallow water table aquifer include localized shallow construction dewatering, if necessary, and a decrease of permeable surface area at the site, which may impact shallow aquifer recharge currently occurring at the site by way of infiltration. However, we expect that the proposed stormwater pond would discharge into the existing storm sewer system that runs to the west along Todd Road NW and discharges to the wetland adjacent to Wapato Creek on the west side of 4th Street NW. In our opinion, the on-site stormwater quality treatment and discharge to the existing storm sewer system would adequately mitigate any potential adverse impacts to current on-site groundwater recharge and support of downgradient surface water features and wetland areas. In our opinion, any construction dewatering would have no impact on downgradient surface water features and wetland areas if the dewatering system is discharged to the existing storm sewer system. We expect that City of Puyallup notification and submittal of a temporary construction dewatering (TCD) plan for City of Puyallup review and approval would be required prior to construction.

In our opinion, the potential for adverse impacts to on-site and downgradient surface water features resulting from erosion and sedimentation during construction would be adequately mitigated with proper implementation and maintenance of BMPs for erosion prevention and sedimentation control outlined in the project construction stormwater pollution prevention plan (SWPPP).

In our opinion, potential hazards associated with the use of equipment fuels and lubricants at the site during construction would be adequately mitigated with proper implementation and maintenance of BMPs for spill prevention and recovery of hazardous materials during construction outlined in the project SWPPP.

Potential post-development impacts to groundwater at the site would be in the form of trace petroleum hydrocarbons and trace metals from roadway and parking area runoff, and typical landscape products in the form of fertilizers, pesticides, and other landscaping chemicals. It is not expected that any deleterious substances and hazardous materials used by site maintenance and landscape subcontractors would be stored on site or used in significant amounts.

In our opinion, specific recommendations for storage or handling of typical volumes of these materials for landscape and maintenance purposes, in typical residential volumes, is not warranted. Additionally, trace petroleum products and many common pesticides are readily degradable in the natural environment when dilute, and metals and pesticides are typically filtered by sorption in the upper portion of the soil column.

Potential impacts to site groundwater from a spill or leak from the permanent diesel-fueled backup generator can be adequately mitigated by implementing source control best management practices (BMPs) for fueling at dedicated stations (and above-ground and underground fuel storage facilities) as outlined in Volume IV, Chapter 6 of the 2019 *Stormwater Management Manual for Western Washington*. Applicable operational BMPs would include the following:

- Prepare an emergency spill response and cleanup plan (spill plan) per S426 BMPs for Spills of Oil and Hazardous Substances.
- Train employees on the proper use of fuel dispensers and on the spill plan.
- Have a designated trained person(s) available either on site or on call at all times to implement the spill plan promptly and properly and immediately cleanup all spills.
- The person conducting the fuel transfer must be present at the fueling pump during fuel transfer, particularly at unattended or self-serve stations.
- Keep suitable cleanup materials, such as dry adsorbent materials, on site to allow prompt cleanup of a spill.
- Do not use dispersants to clean up spills or sheens unless properly removed for disposal following application. Dispersants are not allowed to enter storm drains, surface waters, treatment systems, or sanitary sewers.
- Post signs in accordance with the requirements in the Uniform Fire Code (UFC) or International Fire Code (IFC). For example, post “No Topping Off” signs (topping off gas tanks causes spillage and vents gas fumes to the air).

Applicable Structural Source Control BMPs for new fueling stations would include the following:

- Slope the concrete containment pad around the fuel tank toward drains; either trench drains, catch basins and/or a dead-end sump. The slope of the drains shall not be less than 1 percent (Section 7901.8 of the UFC, Section 5703.6.8 of the IFC).
- Drains from containment pads must have a normally closed shutoff valve. The valve may be opened to convey contaminated stormwater to oil removal treatment such as an API or CP oil/water separator (see V-13 Oil and Water Separator BMPs), catch basin insert, or equivalent treatment, and then to a basic treatment BMP (as described in III-1.2 Choosing Your Runoff Treatment BMPs) or to a sanitary sewer, if approved by the sewer authority. Discharges from treatment systems to storm sewer or surface water or to the ground must not display ongoing or recurring visible sheen and must not contain a significant amount of oil and grease.
- The spill control capacity must be sized in compliance with Section 7901.8 of the UFC. The spill control capacity may be acquired by either an underground system including a sump, or an above ground containment area consisting of a containment pad with berms.

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- The fueling island may be designed as a spill containment pad with a sill or berm raised to a minimum of four inches (per Section 7901.8 of the UFC) to prevent the runoff of spilled liquids and to prevent run-on of stormwater from the surrounding area. All stormwater collected on the containment pad must discharge to treatment with a normally closed valve downstream of the treatment.
- The fueling pad must be paved with Portland cement concrete, or equivalent. Asphalt pavement is not considered an equivalent material.

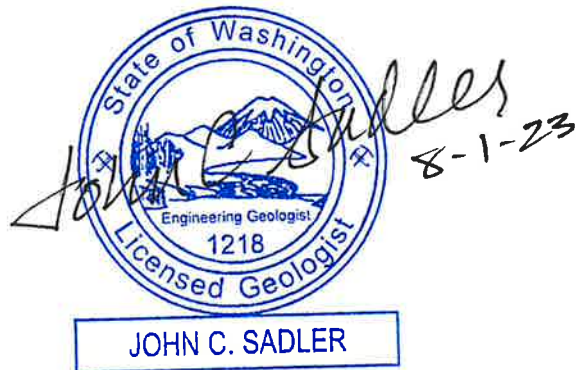
Based on our review, and provided appropriate BMPs are implemented as discussed above, it is our opinion that the use of a permanent diesel-fueled emergency generator at the site would not result in any significant adverse impacts to water quality of the shallow water table aquifer.

We trust the information presented is sufficient for your current needs. If you have any questions or require additional information, please call.

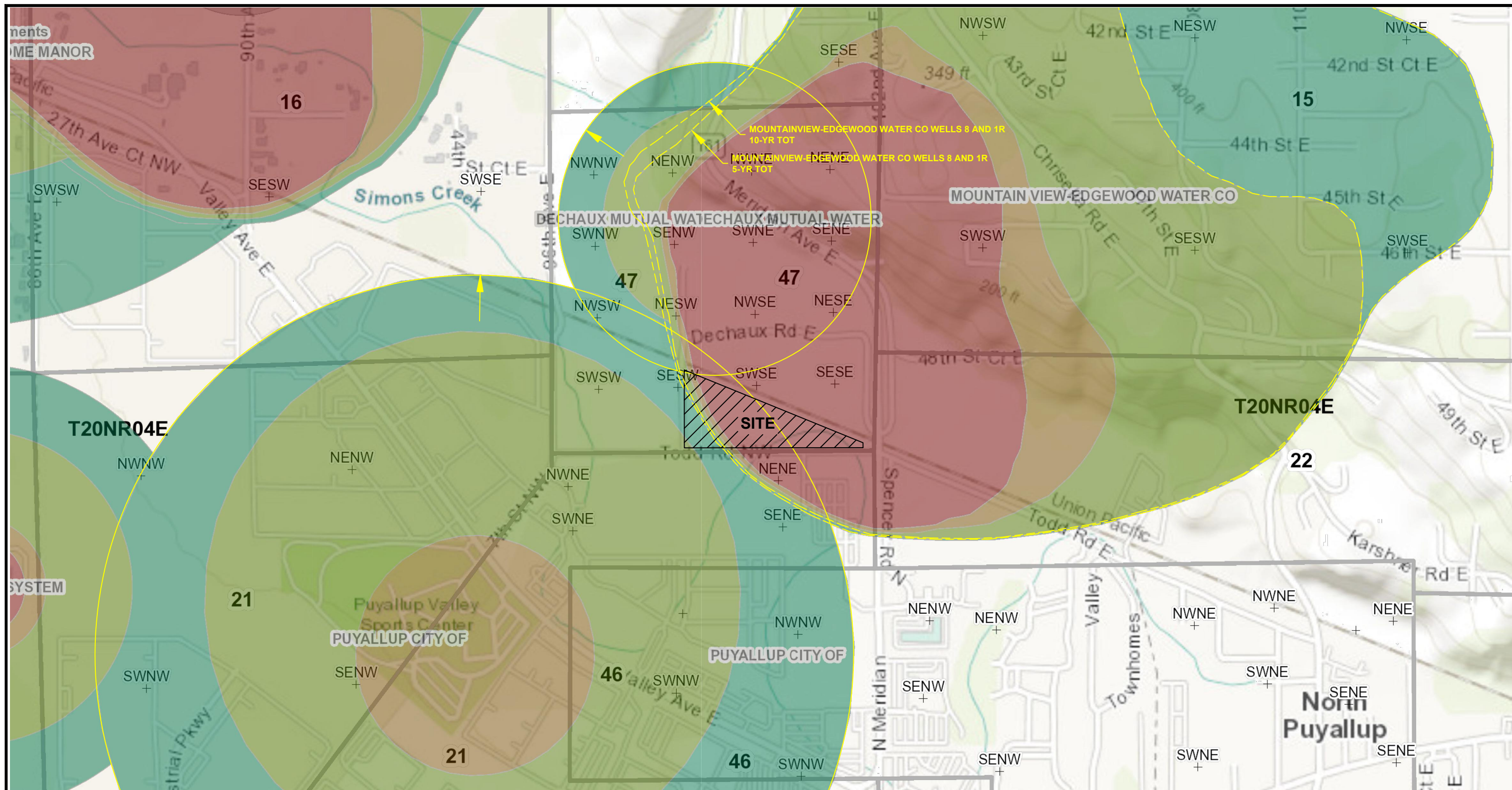
Sincerely yours,  
**TERRA ASSOCIATES, INC.**



John C. Sadler, L.E.G., L.H.G.  
Project Manager/Senior Engineering Geologist







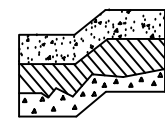
- Encl:
- Figure 1 – Wellhead Protection Zones Map
  - Figure 2 – Vicinity Map
  - Figure 3 – Other Critical Areas Map
  - Figure 4 – Proposed Development Plan
  - Figure 5 – Surficial Geologic Map
  - Figure 6 – WSDOE Well Location Map
  - Appendix A – Boring Logs and CPT Plots
  - Appendix B – DOE Well Details and Driller’s Logs



REFERENCE: WSDOH SWAP (MAY 2023)

LEGEND:

-  GROUP A SYSTEM 10-YR TIME-OF-TRAVEL ZONE
-  GROUP A SYSTEM 5-YR TIME-OF-TRAVEL ZONE
-  GROUP A SYSTEM 1-YR TIME-OF-TRAVEL ZONE
-  GROUP A SYSTEM 6-MO TIME-OF-TRAVEL ZONE



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WELLHEAD PROTECTION ZONES MAP  
 PSE OPERATIONAL TRAINING CENTER  
 PUYALLUP, WASHINGTON

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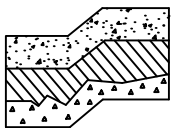
Date AUG 2023

Figure 1



REFERENCE: WSDOT GEOPORTAL

NOT TO SCALE



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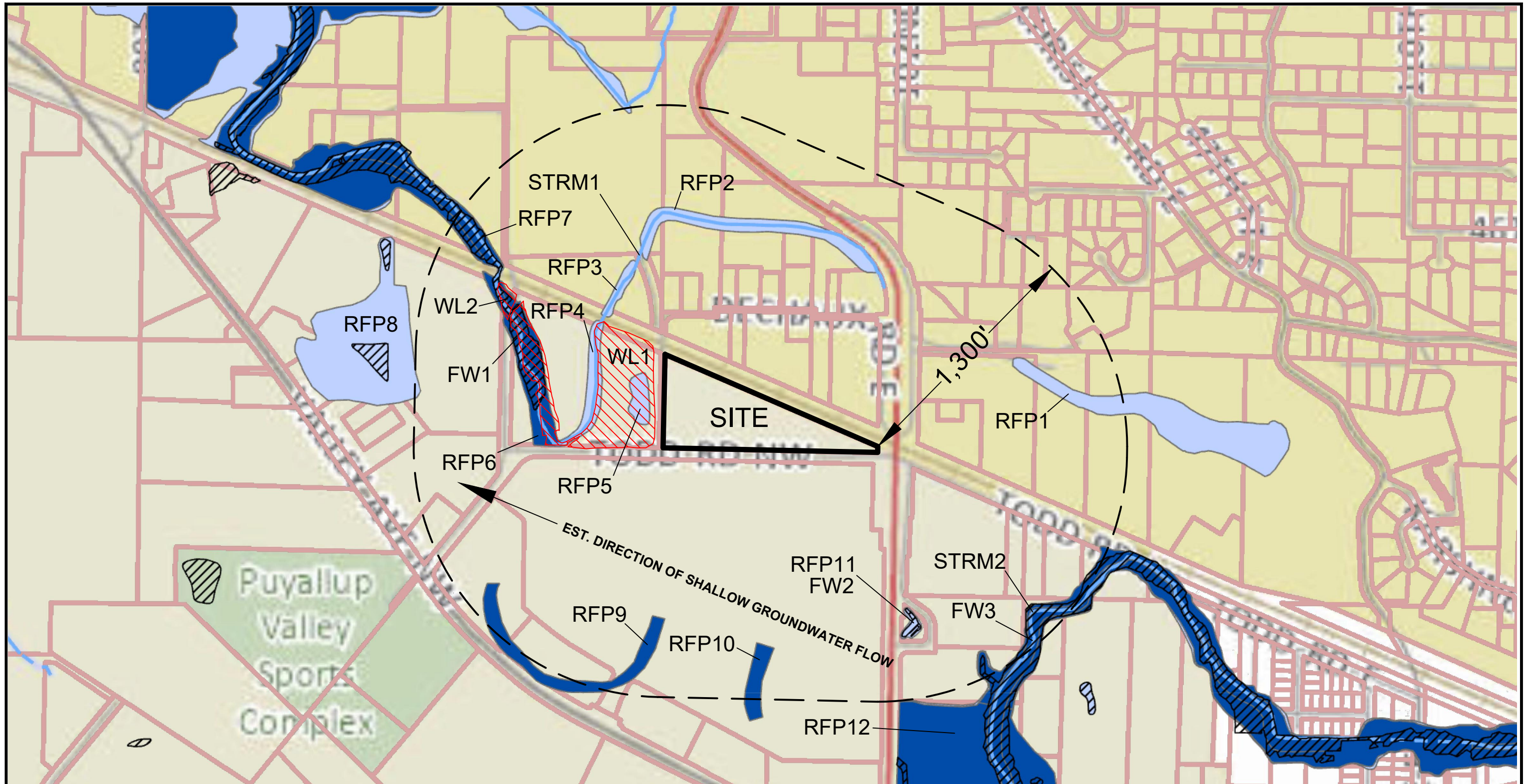
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VICINITY MAP  
PSE OPERATIONAL TRAINING CENTER  
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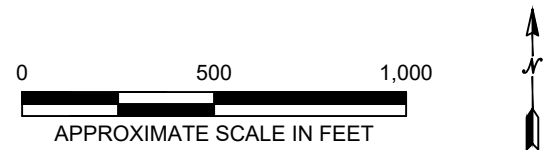
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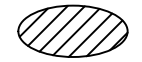

Figure 2

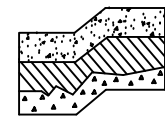


REFERENCES: PIERCE COUNTY PUBLIC GIS  
CITY OF PUYALLUP GIS



LEGEND:

-  WL WETLAND (CITY OF PUYALLUP)
-  RFP REGULATED FLOODPLAIN
-  FW FLOODWAY
-  STRM STREAM



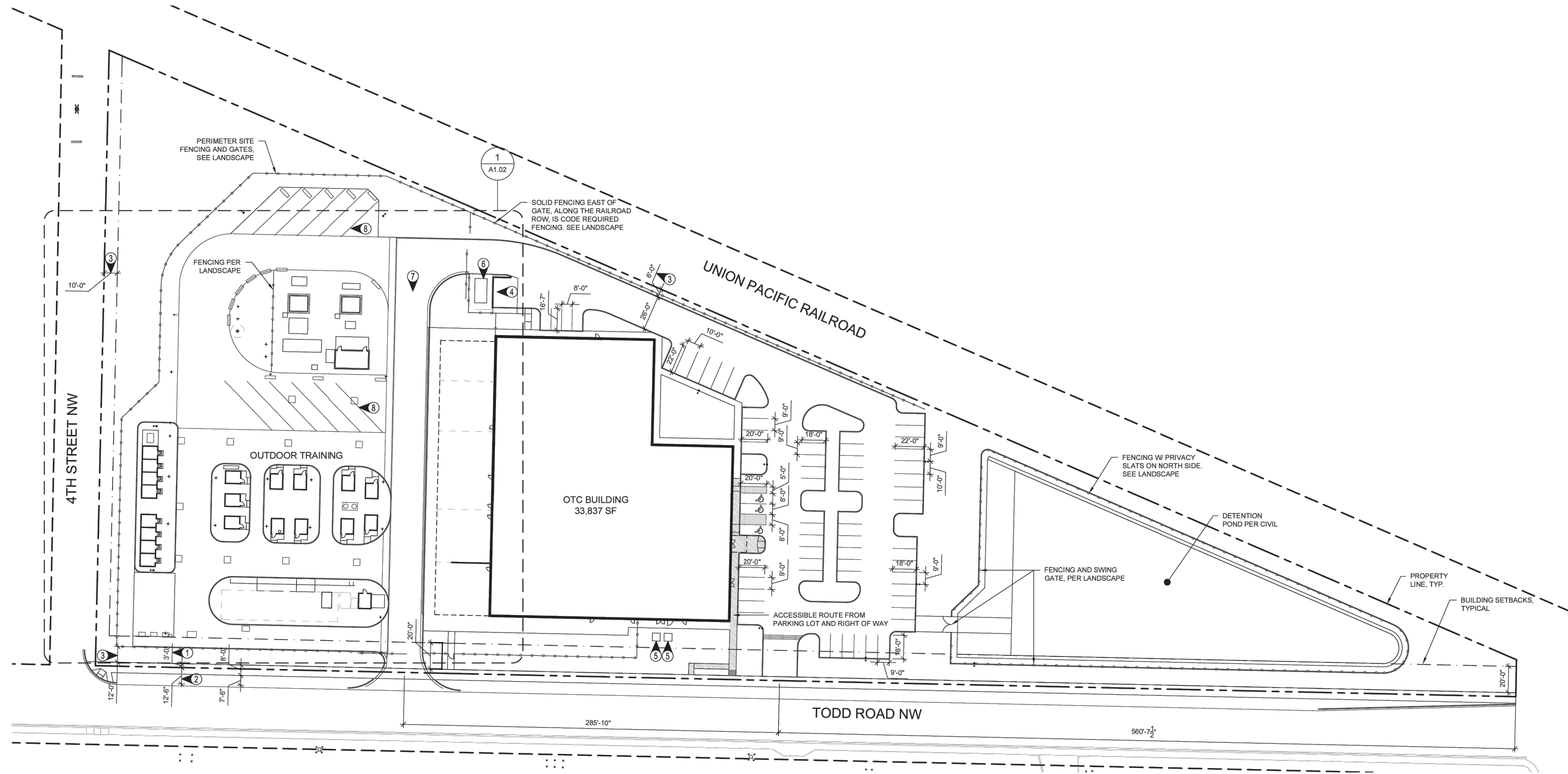
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OTHER CRITICAL AREAS MAP  
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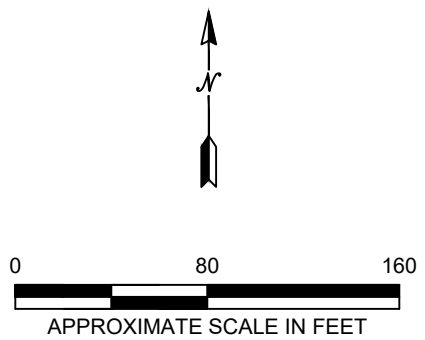
Date AUG 2023

Figure 3



**NOTE:**  
 THIS SITE PLAN IS SCHEMATIC. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE. IT IS INTENDED FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR DESIGN OR CONSTRUCTION PURPOSES.

**REFERENCE:**  
 ZERVAS (7-21-2023)



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**PROPOSED DEVELOPMENT PLAN  
 PSE OPERATIONAL TRAINING CENTER  
 PUYALLUP, WASHINGTON**

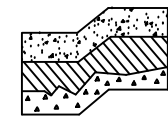
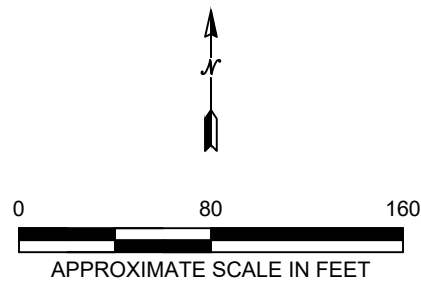
Proj. No.T-8829	Date AUG 2023	Figure 4
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**NOTE:**  
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**REFERENCE:**  
PIERCE COUNTY PUBLIC GIS

**LEGEND:**  
 APPROXIMATE BORING LOCATION  
 APPROXIMATE CPT LOCATION



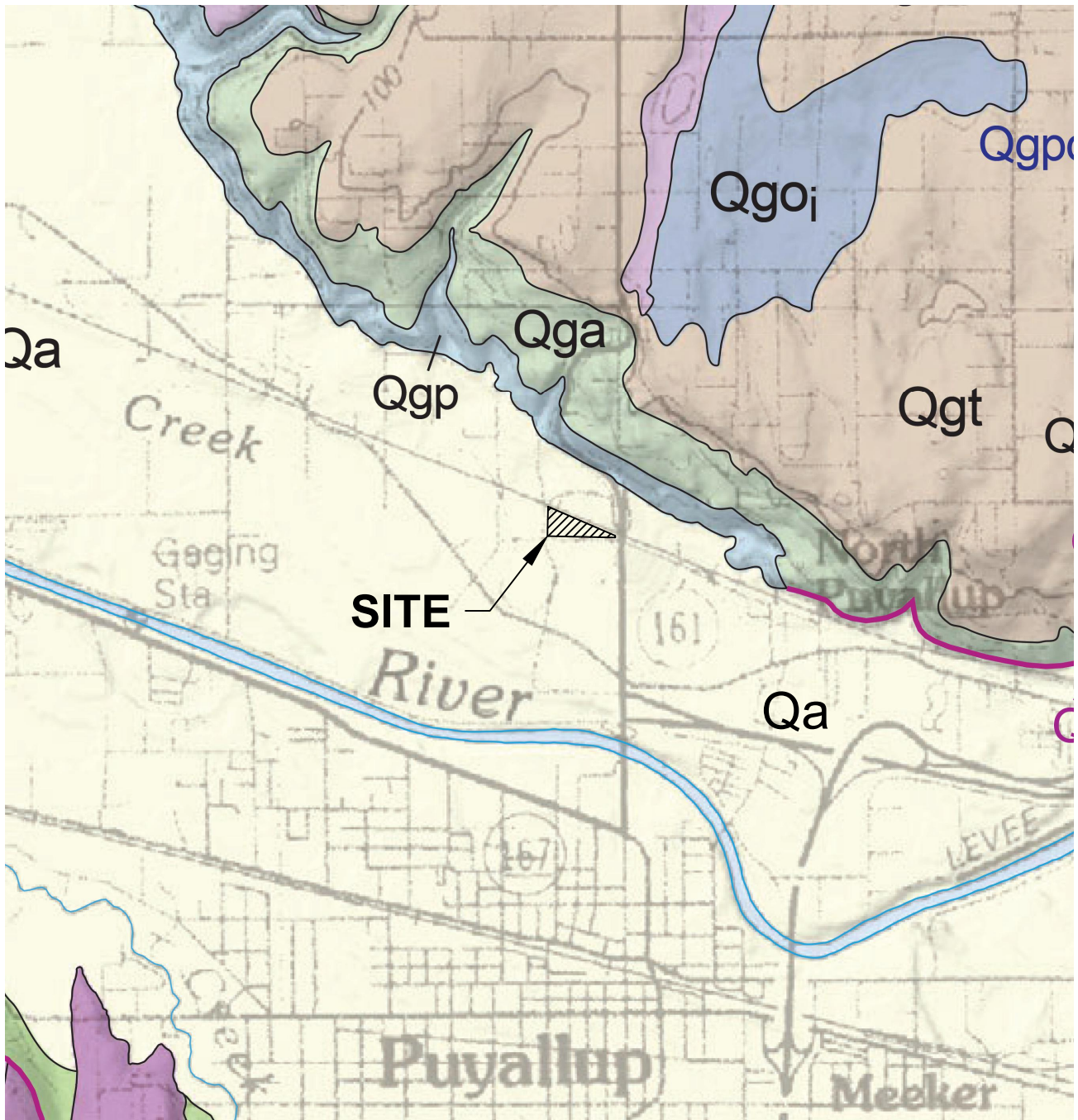
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EXPLORATION LOCATION PLAN  
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Figure 5



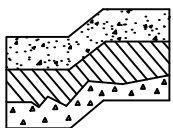
**LEGEND:**

- Qa** - ALLUVIUM (HOLOCENE)
- Qgo<sub>j</sub>** - VASHON RESSIONAL OUTWASH - ICE-CONTACT DEPOSITS
- Qgt** - VASHON TILL
- Qga** - VASHON ADVANCE OUTWASH
- Qgp** - PRE-FRASER CONTINENTAL GLACIAL DRIFT



NOT TO SCALE

**REFERENCE:** GEOLOGIC MAP OF THE TACOMA 1:100,000 SCALE QUADRANGLE, WASHINGTON, 2015



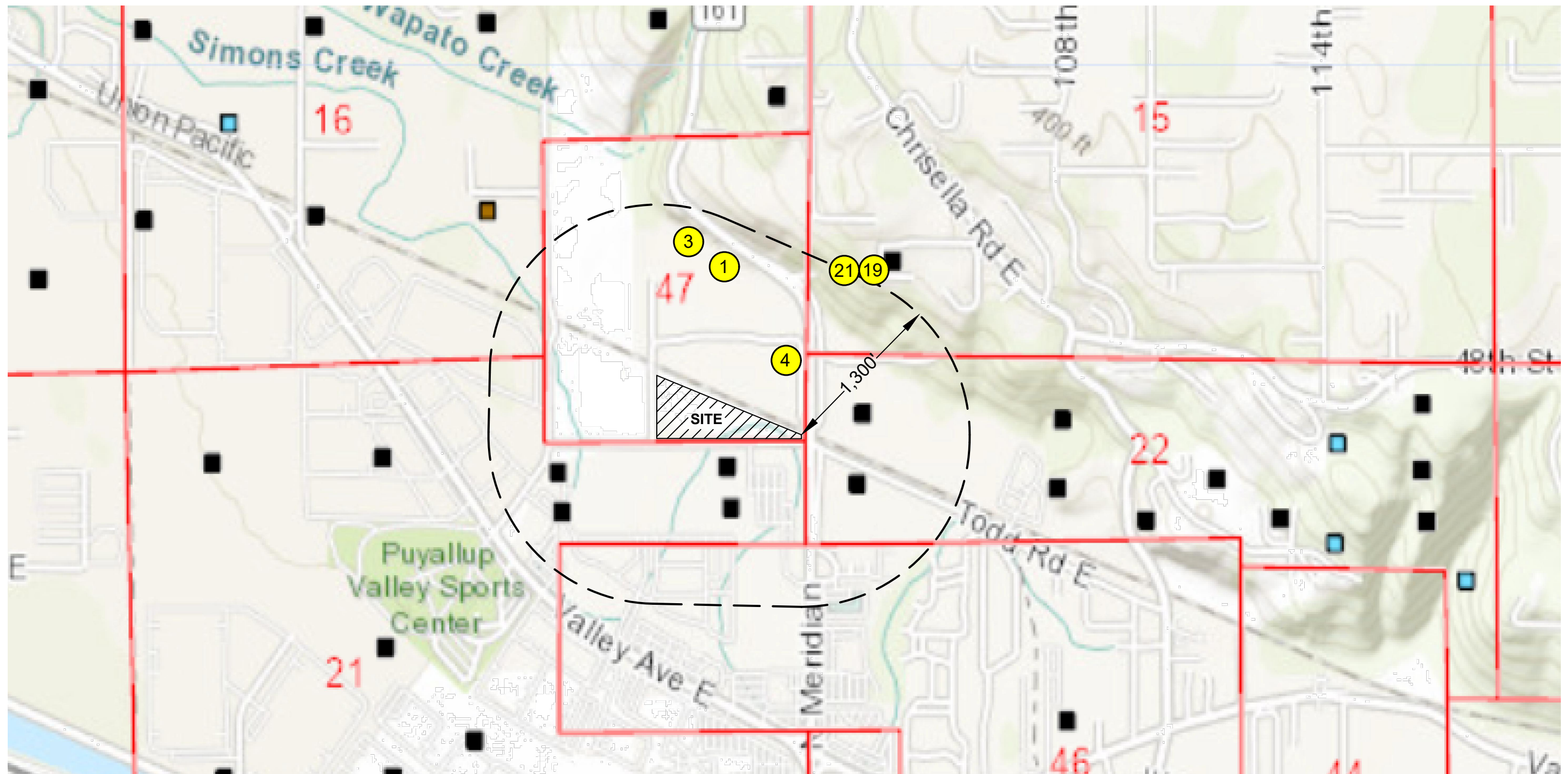
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**SURFICIAL GEOLOGIC MAP  
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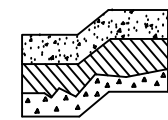
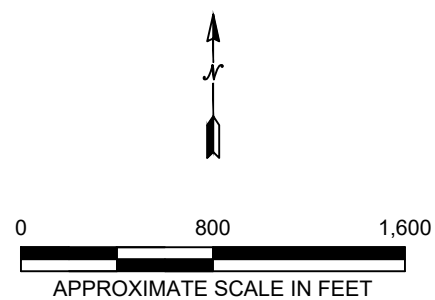
Figure 6



REFERENCE: WSDOE WATER RESOURCES PROGRAM - WELL LOCATOR WEBSITE

**LEGEND:**

- ① WULF WELL
- ③ DECHAUX WELL
- ④ ABBEY WELL
- ⑱ MOUNTAINVIEW-EDGEWOOD WELL
- ⑳ MOUNTAINVIEW-EDGEWOOD WELL



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WSDOE WELL LOCATION MAP  
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Figure 7

**APPENDIX A**  
**BORING LOGS AND CPT PLOTS**

# LOG OF BORING NO. B-1

Figure No. A-2

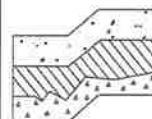
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 17, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 4.5 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)	
				10	30	50		
0		Blackish-gray silty SAND, fine to coarse sand, moist to wet, trace rootlets, occasional silt seam. (SM)	Loose					
~3				•			5	20.4
~4.5				•			5	29.1
~7				•			4	29.0
10		Blackish-gray SAND with silt, fine to coarse sand, wet, trace small organic fragments. (SP-SM)						
~10				•			7	27.5
15		Test Boring terminated at approximately 10 feet. Groundwater seepage observed at approximately 4.5 feet.						

NOTE: This borehole log has been prepared for geotechnical purposes. This information pertains only to this boring location and should not be interpreted as being indicative of other areas of the site



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# LOG OF BORING NO. B-2

Figure No. A-3

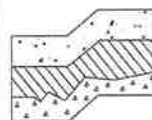
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 17, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 4.5 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)	
				10	30	50		
0		Blackish-gray SAND, fine to medium sand, moist, trace rootlets, occasional sandy silt seam. (SP)	Loose				10.1	
5		Gray sandy SILT, fine sand, wet, occasional clayey silt layer, occasional rootlet. (ML)						6
		Gray clayey SILT, wet, trace rootlets, interbedded sand seams. (ML)	Soft				2	52.3
10		Blackish-gray SAND, fine to coarse sand, wet, interbedded silt seams. (SP)	Stiff				9	31.1
		Blackish-gray SAND, fine to coarse sand, wet, interbedded silt seams. (SP)	Loose					27.5
		Test Boring terminated at approximately 10 feet. Groundwater seepage observed at approximately 4.5 feet.						
15								

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# LOG OF BORING NO. B-3

Figure No. A-4

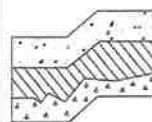
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 17, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 4.5 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)	
				10	30	50		
0		Gray SILT, moist, mottled, occasional rootlet, occasional sand seam. (ML)	Medium Stiff				5	35.4
5		Gray clayey SILT, wet, occasional rootlet. (ML)	Soft				2	36.7
		Blackish-gray SAND with silt, fine to coarse sand, wet, occasional small organic fragment, occasional clayey silt seam. (SP-SM)	Loose				5	27.3
10							6	29.0
		Test Boring terminated at approximately 10 feet. Groundwater seepage observed at approximately 4.5 feet.						
15								

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# LOG OF BORING NO. B-4

Figure No. A-5

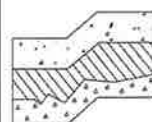
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 17, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 4.5 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)	
				10	30	50		
0		Gray SILT, moist, generally mottled, localized oxidized laminations, occasional rootlet, occasional charcoal inclusion. (ML)	Soft				38.7	
5		Blackish-gray to gray clayey SILT, wet, mottled, occasional rootlet, occasional sand with silt layer. (ML)						2
		*Interbedded sand seams observed*	Medium Stiff				8	31.9
		Blackish-gray SAND, fine to coarse sand, wet, trace gravel, occasional silt seam. (SP)	Loose				7	23.7
10		Test Boring terminated at approximately 10 feet. Groundwater seepage observed at approximately 4.5 feet.						24.8
15								

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# LOG OF BORING NO. B-5

Figure No. A-6

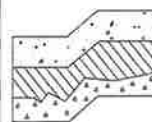
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 17, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 4.5 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)	
				10	30	50		
0		Alternating layers of brownish-gray silty SAND and sandy SILT, fine to medium sand, moist, mottled, trace rootlets. (SM/ML)	Very Loose				3	27.7
5		Gray clayey SILT, wet, mottled, trace sand, occasional rootlet. (ML)	Soft				2	40.6
			Medium Stiff				6	36.8
		Blackish-gray SAND with silt, fine to medium sand, wet, occasional silt seam. (SP-SM)	Loose					25.2
10		Blackish-gray SAND, fine to coarse sand, wet, occasional silt layer. (SP)	Very Loose				3	26.1
		Test Boring terminated at approximately 10 feet. Groundwater seepage observed at approximately 4.5 feet.						
15								

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# LOG OF BORING NO. B-6

Figure No. A-7

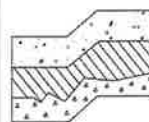
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 17, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 6 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)
				10	30	50	
0		Brownish-gray silty SAND, fine sand, moist, occasional rootlet, occasional clayey silt layer. (SM)	Loose	•		6	19.2
5		Alternating layers of silty SAND and sandy SILT, fine sand, moist to wet, mottled, occasional sand seam. (SM/ML)					
		Gray SILT, moist to wet, mottled, interbedded sandy silt layers, occasional sand seam. (ML)	Soft	•		4	33.7
10		Gray clayey SILT, moist to wet, oxidized laminations. (ML)					
15							

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# LOG OF BORING NO. B-7

Figure No. A-8

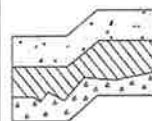
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 16, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 6 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)	
				10	30	50		
0		Brownish-gray silty SAND, fine sand, moist to wet, slightly mottled, trace sandy silt seams, occasional rootlet. (SM)	Very Loose				3	18.9
5							5	38.0
		Brownish-gray SAND with silt, fine to medium sand, wet, trace silt layers. (SP-SM)	Loose				8	29.0
		Gray clayey SILT, moist, trace small organic fragments, interbedded sand layers. (ML) <i>*Numerous organic PEAT inclusions observed in upper 6 inches of sample*</i>	Soft				3	42.2
		Blackish-gray SAND with silt, fine to medium sand, wet, occasional silt layer. (SP-SM)	Loose				9	29.3
							17	29.1
		Gray SILT, moist, occasional small organic fragment, interbedded and inundated sand layers. (ML)	Very Stiff				19	27.9
		Test Boring terminated at approximately 20 feet, Groundwater seepage observed at approximately 6 feet.						
25								

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# LOG OF BORING NO. B-8

Figure No. A-9

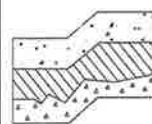
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 16, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 10 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)	
				10	30	50		
0		FILL: Gray silty GRAVEL with sand, fine to coarse sand, fine to coarse gravel, wet, trace rootlets. (GM)	Loose	•			5	5.6
5		Brownish-gray clayey SILT, moist, mottled, trace sand seams, occasional rootlet. (ML)	Medium Stiff	•			5	30.4 16.8
		Brownish-gray SAND with silt, fine to medium sand, moist, occasional silt layer. (SP-SM)		•			5	36.0
10		Gray sandy SILT, fine to medium sand, moist, mottled, trace sand seams. (ML)	Loose	•			5	36.0
		Blackish-gray SAND with silt, fine to coarse sand, wet, occasional silt layer. (SP-SM)	Medium Dense	•			11	26.4
		Gray SILT, moist to wet, trace sand seams, trace fine gravel. (ML)	Medium Stiff	•			5	44.4
15		Blackish-gray SAND with silt, fine to medium sand, wet, occasional fine gravel. (SP-SM)		•			13	28.6
20		Dark gray SAND with silt, fine to medium sand, wet, occasional fine gravel, interbedded silt layers. (SP-SM)	Medium Dense	•			20	27.8
25		Blackish-gray SAND with silt, fine to medium sand, wet, interbedded silt layers. (SP-SM)		•			24	27.6
30			Dense	•			31	24.2
		Test Boring terminated at approximately 30 feet.						
		Groundwater seepage observed at approximately 10 feet.						
35								

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# LOG OF BORING NO. B-9

Figure No. A-10

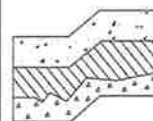
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 16, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 7.5 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)	
				10	30	50		
0		Brownish-gray silty SAND, fine sand, moist, occasional gravel, occasional rootlet, interbedded sand seams, interbedded silt seams. (SM)	Loose	•			6	16.3
5				•			5	17.8
7.5		Gray sandy SILT, fine sand, moist to wet, mottled, interbedded and inundated sand seams. (ML)	Medium Stiff	•			7	33.5
10		Gray clayey SILT, moist to wet, occasional localized mottling, occasional localized oxidized lamination. (ML)		•			6	42.8
12.5		Gray SILT, wet, occasional small organic fragment. (ML)	Loose	•			4	40.4
15		Blackish-gray SAND with silt, fine to medium sand, wet, interbedded silt layers. (SP-SM)		•			9	30.7
20		Light brown organic PEAT, wet, fibrous, trace sand. (PT) (Partially decomposed tree trunk)	Very Loose	•			3	211.4
25		Gray sandy SILT, fine to medium sand, wet, interbedded silty sand layers. (ML)	Medium Dense		•		26	33.2
30		Gray SILT with sand, fine to medium sand, wet, interbedded silty sand layers. (ML)		Stiff	•			13
35		Test Boring terminated at approximately 30 feet. Groundwater seepage observed at approximately 7.5 feet.						

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# LOG OF BORING NO. B-10

Figure No. A-11

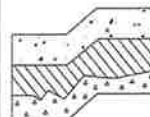
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 16, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 10 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)	
				10	30	50		
0		Grayish-brown sandy SILT, fine sand, moist, localized mottling, localized oxidized laminations, trace small organic fragments, interbedded fine sand layers. (ML)	Loose	•			7	12.9
5				•			5	23.3
		Brownish-gray SAND, fine to medium sand, moist, occasional silt seam. (SP)		•			6	11.3
10		Gray SILT, moist to wet, oxidized laminations, trace small organic fragments, interbedded and inundated sand layers. (ML)	Medium Stiff	•			4	36.8
			Stiff	•			10	35.2
15		Gray SAND with silt, fine to medium sand, wet, interbedded silt layers. (SP-SM)	Medium Dense	•			14	28.4
20		Gray sandy SILT, fine sand, moist to wet, occasional silt seam, occasional wood waste inclusion. (ML)		•			13	32.6
25		Test Boring terminated at approximately 20 feet. Groundwater seepage observed at approximately 10 feet.						

NOTE: This borehole log has been prepared for geotechnical purposes. This information pertains only to this boring location and should not be interpreted as being indicative of other areas of the site



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# LOG OF BORING NO. B-11

Figure No. A-12

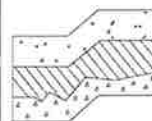
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 16, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 10 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)	Observ. Well
				10	30	50		
0		Brownish-gray SILT with sand, fine sand, moist, mottled, trace rootlets. (ML)	Medium Stiff			4	36.6	
5		Brownish-gray silty SAND, fine sand, moist to wet, interbedded silt with sand layers. (SM)	Loose			4	24.3	
		Gray SAND with silt, fine to medium sand, moist to wet, interbedded and mottled silty sand and silt layers. (SP-SM)				5	28.2	
10		Gray SILT, moist to wet, interbedded and inundated sand with silt layers. (ML)	Stiff			8	46.2	
15		Gray SAND with silt, fine to medium sand, wet, occasional silt layer. (SP-SM)	Medium Dense			11	31.2	
20		Test Boring terminated at approximately 15 feet.  Groundwater seepage observed at approximately 10 feet.  Boring converted to groundwater monitoring well with monument no. BNV 571.						

NOTE: This borehole log has been prepared for geotechnical purposes. This information pertains only to this boring location and should not be interpreted as being indicative of other areas of the site



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# LOG OF BORING NO. B-12

Figure No. A-13

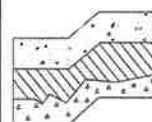
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 16, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 9 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)
				10	30	50	
0		FILL: Gray GRAVEL with silt and sand, fine to coarse sand, fine to coarse gravel, moist, scattered rootlets. (GP-GM)	Loose			8	9.1
5		Gray SILT, moist, mottled, trace sand seams. (ML)	Stiff			11	32.5
		Brown SAND, fine to coarse sand, moist, (SP)					9.6
		Gray SAND with silt, fine to coarse sand, moist to wet, trace gravel, occasional silt seam. (SP-SM)				10	16.3
10		Blackish-gray SAND, fine to coarse sand, wet, trace fine gravel, trace silt. (SP)	Medium Dense			11	24.7
						12	18.7
15			Loose			9	19.8
		Test Boring terminated at approximately 15 feet. Groundwater seepage observed at approximately 9 feet.					
20							

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# LOG OF BORING NO. B-13

Figure No. A-14

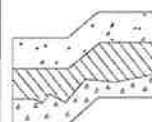
Project: PSE Operational Training Facility Project No: T-8829 Date Drilled: November 16, 2022

Client: Trammel Crow Company Driller: BoreTec Logged By: MJX

Location: Puyallup, Washington Depth to Groundwater: 10 ft Approx. Elev: NA

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows / foot			Moisture Content (%)	Observ. Well
				10	30	50		
0		FILL: Gray GRAVEL with silt and sand, fine to coarse sand, fine to coarse gravel, moist. (GP-GM)	Medium Dense	•		14	9.9	
5		Brownish-gray sandy SILT, fine sand, moist, mottled, occasional gravel, occasional rootlet. (ML)	Loose	•		4	22.3	
		Gray SILT, moist to wet, oxidized laminations, trace sand, occasional small organic fragment, interbedded sand with silt and silty sand layers. (ML)	Medium Stiff	•		8	20.1	
10				•		5	36.5	
		Blackish-gray SAND with silt, fine to medium sand, wet, occasional fine gravel, interbedded silty sand and silt layers. (SP-SM)	Medium Dense	•		8	26.5	
15				•		10	31.2	
20				•		29	25.0	
25				•		16	26.6	
30				•		24	24.9	
35		Test Boring terminated at approximately 30 feet.  Groundwater seepage observed at approximately 10 feet.  Boring converted to groundwater monitoring well with monument no. BNV 572.						

NOTE: This borehole log has been prepared for geotechnical purposes. This information pertains only to this boring location and should not be interpreted as being indicative of other areas of the site



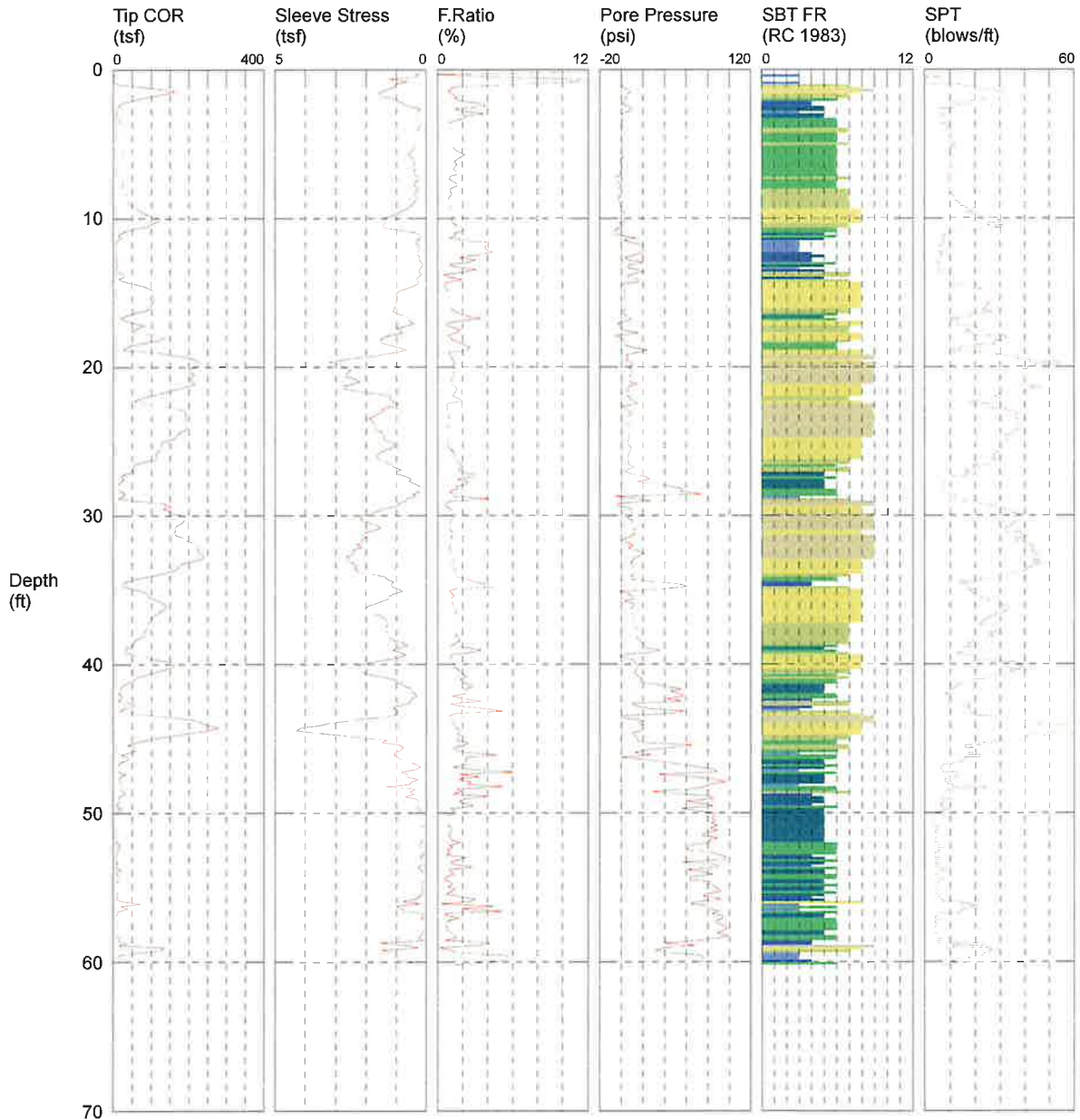
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# CPT-01

CPT CONTRACTOR: In Situ Engineering  
 CUSTOMER: Terra Associates  
 LOCATION: Puyallup  
 JOB NUMBER: T-8829  
 COMMENT: PSE Operational Training Center

OPERATOR: Okbay  
 CONE ID: DDG1351  
 TEST DATE: 11/18/2022 11:40:03 AM  
 PREDRILL: 0 ft  
 BACK FILL: 20% Grout + Bentonite Chips  
 SURFACE PATCH: None



TOTAL DEPTH: 60.203 ft

DEPTH INTERVAL: 0.050 m

- |                          |                             |                            |                                |
|--------------------------|-----------------------------|----------------------------|--------------------------------|
| 1 sensitive fine grained | 4 silty clay to clay        | 7 silty sand to sandy silt | 10 gravelly sand to sand       |
| 2 organic material       | 5 clayey silt to silty clay | 8 sand to silty sand       | 11 very stiff fine grained (*) |
| 3 clay                   | 6 sandy silt to clayey silt | 9 sand                     | 12 sand to clayey sand (*)     |

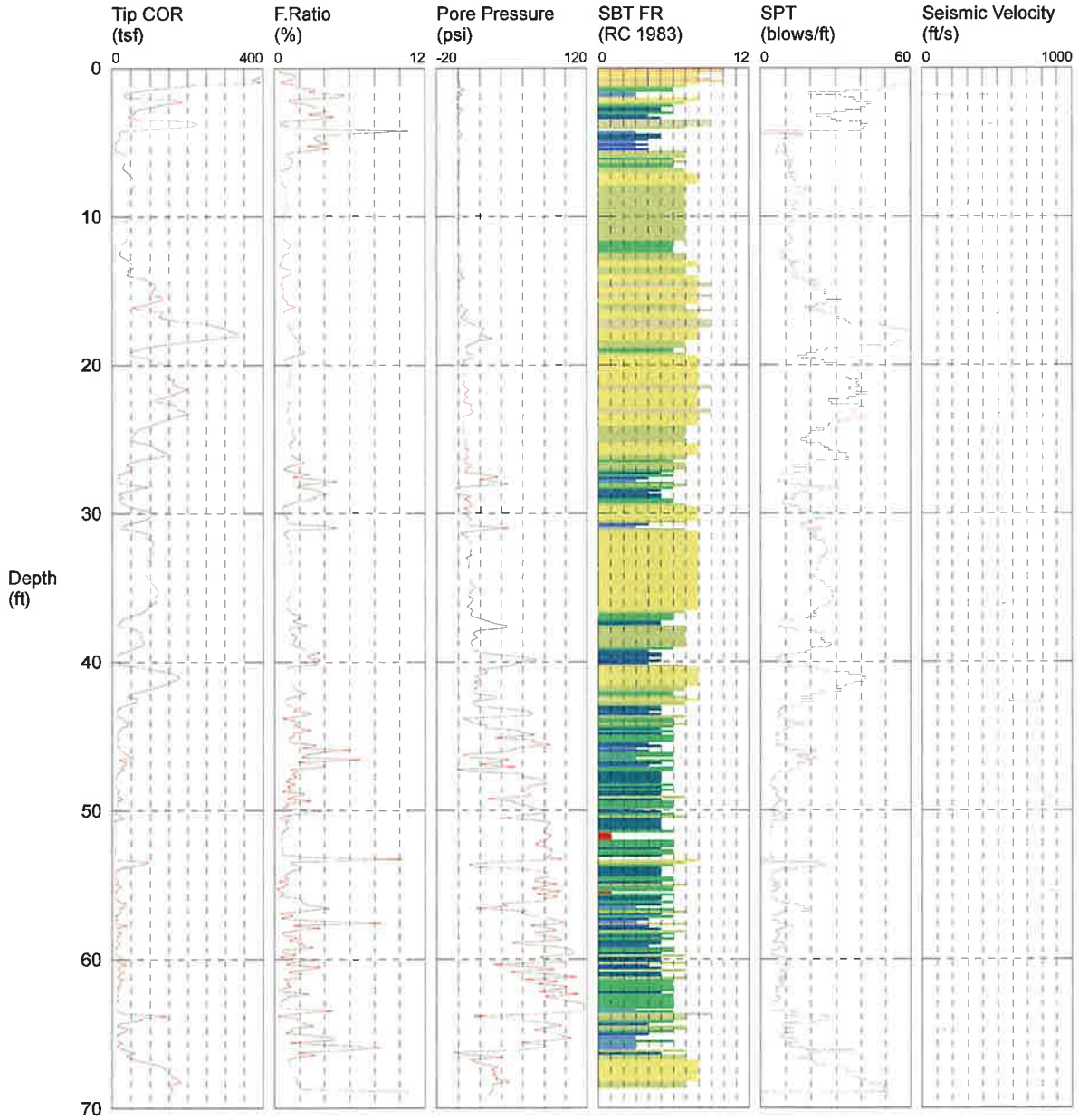
\*SBT/SPT CORRELATION: UBC-1983



# CPT-02

CPT CONTRACTOR: In Situ Engineering  
 CUSTOMER: Terra Associates  
 LOCATION: Puyallup  
 JOB NUMBER: T-8829  
 COMMENT: PSE Operational Training Center

OPERATOR: Okbay  
 CONE ID: DDG1351  
 TEST DATE: 11/18/2022 1:29:19 PM  
 PREDRILL: 0 ft  
 BACK FILL: 20% Grout + Bentonite Chips  
 SURFACE PATCH: None



- |                          |                             |                            |                                |
|--------------------------|-----------------------------|----------------------------|--------------------------------|
| 1 sensitive fine grained | 4 silty clay to clay        | 7 silty sand to sandy silt | 10 gravelly sand to sand       |
| 2 organic material       | 5 clayey silt to silty clay | 8 sand to silty sand       | 11 very stiff fine grained (*) |
| 3 clay                   | 6 sandy silt to clayey silt | 9 sand                     | 12 sand to clayey sand (*)     |
- \*SBT/SPT CORRELATION: UBC-1983

**APPENDIX B**  
**DOE WELL DETAILS AND DRILLER'S LOGS**



## Well Report Search Results

[Edit Search Criteria](#)

[New Search](#)

**Search Criteria Used:**

- Left Coordinate: 1191492
- Right Coordinate: 1195874
- Top Coordinate: 689450
- Bottom Coordinate: 693757
- Well Type: Water

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Displaying well reports 1 → 25 of 25

Sort results by:

Well Owner Name ▼

Results Per Page:

100 ▼

#	Well Details	Location Details
1.	<p><a href="#">View PDF</a></p> <p>Well Owner: <b>BURTON WALF</b></p> <p>Well Tag ID: <i>Driller's log SAYS WOLF</i></p> <p>Notice of Intent Number:</p> <p>Group Number: Not Applicable</p> <p>Well Report ID: 44836</p> <p>Well Diameter: 6 in.</p> <p>Well Depth: 245 ft.</p>	<p>Tax Parcel Number:</p> <p>Well Address:</p> <p>County: PIERCE</p> <p>Public Land Survey: SE-SE / S-16 / T-20-N / R-04-E</p> <p>Well Type: Water / Subtype: Unknown</p> <p>Well Completion Date: 10-03-1979</p> <p>Well Report Received Date: 11-06-1979</p>
2.	<p><a href="#">View PDF</a></p> <p>Well Owner: <b>CHARLES &amp; PHYLLIS SMITH</b></p> <p>Well Tag ID: ACK068 <i>MIS LOCATED</i></p> <p>Notice of Intent Number: W072034</p> <p>Group Number: Not Applicable</p> <p>Well Report ID: 55825</p> <p>Well Diameter: 6 in. <i>OUTSIDE SEARCH RADIUS</i></p> <p>Well Depth: 114 ft.</p>	<p>Tax Parcel Number:</p> <p>Well Address: 3802 84TH AVE CT E</p> <p>County: PIERCE <i>Sec 17</i></p> <p>Public Land Survey: NE-SE / <del>S-16</del> / T-20-N / R-04-E</p> <p>Well Type: Water / Subtype: Unknown</p> <p>Well Completion Date: 08-15-1996</p> <p>Well Report Received Date:</p>
3.	<p><a href="#">View PDF</a></p> <p>Well Owner: <b>FRANK DECHAUX</b></p> <p>Well Tag ID: AEF399</p> <p>Notice of Intent Number:</p> <p>Group Number: Not Applicable</p> <p>Well Report ID: 46923</p> <p>Well Diameter: 8 in.</p> <p>Well Depth: 100 ft.</p>	<p>Tax Parcel Number: 0420164088</p> <p>Well Address:</p> <p>County: PIERCE</p> <p>Public Land Survey: SE-SE / S-16 / T-20-N / R-4-E</p> <p>Well Type: Water / Subtype: Unknown</p> <p>Well Completion Date: 08-08-1978</p> <p>Well Report Received Date: 08-25-1978</p>



4.	View PDF	Well Owner: <b>GUY ABBEY</b> Well Tag ID: Notice of Intent Number: Group Number: Not Applicable Well Report ID: 47603 Well Diameter: 1 in. Well Depth: 12 ft.	Tax Parcel Number: Well Address: County: PIERCE Public Land Survey: NE-NE / S-21 / T-20-N / R-04-E Well Type: Water / Subtype: Unknown Well Completion Date: Well Report Received Date:
5.	View PDF	Well Owner: <b>JEANETTE HUBBARD</b> Well Tag ID: BAC440 Notice of Intent Number: W210491 Group Number: Not Applicable Well Report ID: 667934 Well Diameter: 6 in. Well Depth: 131 ft.	Tax Parcel Number: 0420175002 Well Address: 3906 84TH AVE CT E County: PIERCE Public Land Survey: NW-NE / S-21 / T-20-N / R-04-E Well Type: Water / Subtype: Unknown Well Completion Date: 07-14-2010 Well Report Received Date: 08-18-2010
6.	View PDF	Well Owner: <b>JR. WUNELL CONSTRUCTION</b> Well Tag ID: Notice of Intent Number: Group Number: Not Applicable Well Report ID: 49259 Well Diameter: 6 in. Well Depth: 52 ft.	Tax Parcel Number: Well Address: VALLEY AVE, County: PIERCE Public Land Survey: SW-NW / S-22 / T-20-N / R-04-E Well Type: Water / Subtype: Unknown Well Completion Date: 08-31-1993 Well Report Received Date: 04-06-1994
7.	View PDF	Well Owner: <b>KASSEL CONSTRUCTION / CITY PUYALLUP</b> Well Tag ID: Notice of Intent Number: 042758 Group Number: Not Applicable Well Report ID: 49325 Well Diameter: 2 in. Well Depth: 0 ft.	Tax Parcel Number: Well Address: 902 VALLEY AVE County: PIERCE Public Land Survey: SW-NE / S-21 / T-20-N / R-04-E Well Type: Water / Subtype: Unknown Well Completion Date: 10-15-1998 Well Report Received Date: 12-24-1998
8.	View PDF	Well Owner: <b>Lattitude Development</b> Well Tag ID: BKT976 Notice of Intent Number: DE02055 Group Number: Not Applicable Well Report ID: 1657838 Well Diameter: 1.5 in. Well Depth: 20 ft.	Tax Parcel Number: Well Address: 102 Todd Rd NE County: PIERCE Public Land Survey: NW-NW / S-22 / T-20-N / R-04-E Well Type: Water / Subtype: Dewatering Well Completion Date: 07-25-2017 Well Report Received Date: 08-29-2017
9.	View PDF	Well Owner: <b>Lattitude Development</b> Well Tag ID: BKT977 Notice of Intent Number: DE02055 Group Number: Not Applicable Well Report ID: 1657839 Well Diameter: 1.5 in. Well Depth: 20 ft.	Tax Parcel Number: Well Address: 102 Todd Rd NE County: PIERCE Public Land Survey: NW-NW / S-22 / T-20-N / R-04-E Well Type: Water / Subtype: Dewatering Well Completion Date: 07-25-2017 Well Report Received Date: 08-29-2017
10.	View PDF	Well Owner: <b>Lattitude Development</b> Well Tag ID: BKT978 Notice of Intent Number: DE02055 Group Number: Not Applicable Well Report ID: 1657840 Well Diameter: 1.5 in. Well Depth: 20 ft.	Tax Parcel Number: Well Address: 102 Todd Rd NE County: PIERCE Public Land Survey: NW-NW / S-22 / T-20-N / R-04-E Well Type: Water / Subtype: Dewatering Well Completion Date: 07-25-2017 Well Report Received Date: 08-29-2017



MIS LOCATED

OUTSIDE SEARCH RADIUS.

IRRIGATION WELL

Well DECOMMISSION LOG

DEWATERING WELL

SEC 17



11.	<a href="#">View PDF</a>	Well Owner: <b>Latitude Development</b> Well Tag ID: BKT979 Notice of Intent Number: DE02055 Group Number: Not Applicable Well Report ID: 1657841 Well Diameter: 1.5 in. Well Depth: 20 ft.	Tax Parcel Number: Well Address: 102 Todd Rd NE County: PIERCE Public Land Survey: NW-NW / S-22 / T-20-N / R-04-E Well Type: Water / Subtype: Dewatering Well Completion Date: 07-25-2017 Well Report Received Date: 08-29-2017
12.	<a href="#">View PDF</a>	Well Owner: <b>Latitude Development</b> Well Tag ID: BKT980 Notice of Intent Number: DE02055 Group Number: Not Applicable Well Report ID: 1657842 Well Diameter: 1.5 in. Well Depth: 20 ft.	Tax Parcel Number: Well Address: 102 Todd Rd NE County: PIERCE Public Land Survey: NW-NW / S-22 / T-20-N / R-04-E Well Type: Water / Subtype: Dewatering Well Completion Date: 07-25-2017 Well Report Received Date: 08-29-2017
13.	<a href="#">View PDF</a>	Well Owner: <b>Latitude Development</b> Well Tag ID: BKT981 Notice of Intent Number: DE02055 Group Number: Not Applicable Well Report ID: 1657843 Well Diameter: 1.5 in. Well Depth: 20 ft.	Tax Parcel Number: Well Address: 102 Todd Rd NE County: PIERCE Public Land Survey: NW-NW / S-22 / T-20-N / R-04-E Well Type: Water / Subtype: Dewatering Well Completion Date: 07-25-2017 Well Report Received Date: 08-29-2017
14.	<a href="#">View PDF</a>	Well Owner: <b>Latitude Development</b> Well Tag ID: BKT982 Notice of Intent Number: DE02055 Group Number: Not Applicable Well Report ID: 1657844 Well Diameter: 1.5 in. Well Depth: 20 ft.	Tax Parcel Number: Well Address: 102 Todd Rd NE County: PIERCE Public Land Survey: NW-NW / S-22 / T-20-N / R-04-E Well Type: Water / Subtype: Dewatering Well Completion Date: 07-25-2017 Well Report Received Date: 08-29-2017
15.	<a href="#">View PDF</a>	Well Owner: <b>Latitude Development</b> Well Tag ID: BKT983 Notice of Intent Number: DE02055 Group Number: Not Applicable Well Report ID: 1657845 Well Diameter: 1.5 in. Well Depth: 20 ft.	Tax Parcel Number: Well Address: 102 Todd Rd NE County: PIERCE Public Land Survey: NW-NW / S-22 / T-20-N / R-04-E Well Type: Water / Subtype: Dewatering Well Completion Date: 07-25-2017 Well Report Received Date: 08-29-2017
16.	<a href="#">View PDF</a>	Well Owner: <b>Latitude Development</b> Well Tag ID: BKT984 Notice of Intent Number: DE02055 Group Number: Not Applicable Well Report ID: 1657846 Well Diameter: 1.5 in. Well Depth: 20 ft.	Tax Parcel Number: Well Address: 102 Todd Rd NE County: PIERCE Public Land Survey: NW-NW / S-22 / T-20-N / R-04-E Well Type: Water / Subtype: Dewatering Well Completion Date: 07-25-2017 Well Report Received Date: 08-29-2017
17.	<a href="#">View PDF</a>	Well Owner: <b>Latitude Development</b> Well Tag ID: BKT985 Notice of Intent Number: DE02055 Group Number: Not Applicable Well Report ID: 1657847 Well Diameter: 1.5 in. Well Depth: 20 ft.	Tax Parcel Number: Well Address: 102 Todd Rd NE County: PIERCE Public Land Survey: NW-NW / S-22 / T-20-N / R-04-E Well Type: Water / Subtype: Dewatering Well Completion Date: 07-25-2017 Well Report Received Date: 08-29-2017

18.	View PDF	Well Owner: <b>LENA GWERDER</b> Well Tag ID: Notice of Intent Number: Group Number: Not Applicable Well Report ID: 49765 Well Diameter: 6 in. Well Depth: 164 ft.	Tax Parcel Number: Well Address: County: PIERCE Public Land Survey: NE-SE / S-16 / T-20-N / R-04-E Well Type: Water / Subtype: Unknown Well Completion Date: 09-24-1984 Well Report Received Date: 10-30-1984
19.	View PDF	Well Owner: <b>Mountain View Edgewood Water Co</b> Well Tag ID: ACE906 Notice of Intent Number: Group Number: Not Applicable Well Report ID: 1915508 Well Diameter: 0 in. Well Depth: 0 ft.	Tax Parcel Number: 0420153014 Well Address: 4623 Meridan E County: PIERCE Public Land Survey: SW-SW / S-15 / T-20-N / R-4-E Well Type: Water / Subtype: Unknown Well Completion Date: Well Report Received Date:
<del>20.</del>	<del>View PDF</del>	Well Owner: <b>MOUNTAIN VIEW-EDGEWOOD WATER CO.</b> Well Tag ID: AEC906 Notice of Intent Number: W106915 Group Number: Not Applicable Well Report ID: 56386 Well Diameter: 16 in. Well Depth: 96 ft.	Tax Parcel Number: Well Address: County: PIERCE Public Land Survey: SW-SW / S-15 / T-20-N / R-04-E Well Type: Water / Subtype: Unknown Well Completion Date: 02-17-1999 Well Report Received Date: 03-04-1999
21.	View PDF	Well Owner: <b>MT VIEW EDGEWOOD WATER CO</b> Well Tag ID: Notice of Intent Number: Group Number: Not Applicable Well Report ID: 1557289 Well Diameter: 12 in. Well Depth: 94 ft.	Tax Parcel Number: Well Address: County: PIERCE Public Land Survey: SW-SW / S-15 / T-20-N / R-04-E Well Type: Water / Subtype: Unknown Well Completion Date: Well Report Received Date:
22.	View PDF	Well Owner: <b>ROUND UP COMPANY</b> Well Tag ID: Notice of Intent Number: 019671 Group Number: Not Applicable Well Report ID: 52462 Well Diameter: 8 in. Well Depth: 30 ft.	Tax Parcel Number: Well Address: 2200 N MERIDIAN County: PIERCE Public Land Survey: NE-NE / S-21 / T-20-N / R-04-E Well Type: Water / Subtype: Unknown Well Completion Date: 05-03-1995 Well Report Received Date: 05-15-1995
23.	View PDF	Well Owner: <b>ROUNDUP CO., STEVE SALISBURY</b> Well Tag ID: Notice of Intent Number: Group Number: Not Applicable Well Report ID: 276939 Well Diameter: 10 in. Well Depth: 40 ft.	Tax Parcel Number: Well Address: County: PIERCE Public Land Survey: NE-NE / S-21 / T-20-N / R-04-E Well Type: Water / Subtype: Unknown Well Completion Date: Well Report Received Date:

*OUTSIDE RADIUS*

*CONTINUATION OF ABV LOG.*



*SAME LOC. AS ABV. 1953*

*DEWATERING WELL*

*DEWATERING WELL*





24.		<p>Well Owner: <b>ROUNDUP CO., STEVE SALISBURY</b></p> <p>Well Tag ID:</p> <p>Notice of Intent Number: <i>DEWATERING WELL</i></p> <p>Group Number: Not Applicable</p> <p>Well Report ID: 276940</p> <p>Well Diameter: 10 in.</p> <p>Well Depth: 40 ft.</p>	<p>Tax Parcel Number:</p> <p>Well Address:</p> <p>County: PIERCE</p> <p>Public Land Survey: NE-NE / S-21 / T-20-N / R-04-E</p> <p>Well Type: Water / Subtype: Unknown</p> <p>Well Completion Date:</p> <p>Well Report Received Date:</p>
25.		<p>Well Owner: <b>TED YAGUCHI</b></p> <p>Well Tag ID: <i>MISLOCATED</i></p> <p>Notice of Intent Number: 065586</p> <p>Group Number: Not Applicable</p> <p>Well Report ID: 53176</p> <p>Well Diameter: 6 in.</p> <p>Well Depth: 50 ft.</p>	<p>Tax Parcel Number:</p> <p>Well Address: 4303 90TH AVE E</p> <p>County: PIERCE</p> <p>Public Land Survey: <del>NE-SE</del> / S-16 / T-20-N / R-04-E <i>NE of SW</i></p> <p>Well Type: Water / Subtype: Unknown</p> <p>Well Completion Date: 02-25-1991</p> <p>Well Report Received Date:</p>

Total Result Pages: 1





Dechaux Mutual - Group A

**WATER WELL REPORT**  
 STATE OF WASHINGTON

AEF349

Application No. E  
 Permit No.

(1) OWNER: Name Frank Dechaux Address 419 Dechaux Rd, SW Puyallup, Wa, 98371

(2) LOCATION OF WELL: County Pierce SE 1/4 SE 1/4 Sec. 16 T. 20 N. R. 4E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic  Industrial  Municipal   
 Irrigation  Test Well  Other

(4) TYPE OF WORK: Owner's number of well (if more than one) 1  
 New well  Method: Dug  Bored   
 Deepened  Cable  Driven   
 Reconditioned  Rotary  Jetted

(5) DIMENSIONS: Diameter of well 8 inches  
 Drilled 103 ft. Depth of completed well 100 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from 0 ft. to 100 ft.  
 Threaded  " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Welded  " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes  No   
 Type of perforator used \_\_\_\_\_  
 SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes  No   
 Manufacturer's Name Johnson Well  
 Type Stainless steel Model No. \_\_\_\_\_  
 Diam. 8 Slot size 80 from 93 ft. to 83 ft.  
 Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes  No  Size of gravel: \_\_\_\_\_  
 Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes  No  To what depth? 20 ft.  
 Material used in seal Bentonite  
 Did any strata contain unusable water? Yes  No   
 Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
 Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name Jacuzzi Bros.  
 Type: 5S4B HP 5

(8) WATER LEVELS: Land-surface elevation above mean sea level \_\_\_\_\_ ft.  
 Static level 0 ft. below top of well Date 8-8-78  
 Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
 Artesian water is controlled by \_\_\_\_\_ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes  No  If yes, by whom? \_\_\_\_\_  
 Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test \_\_\_\_\_  
 Bailor test 100 gal./min. with 5 ft. drawdown after 1 hrs.  
 Artesian flow \_\_\_\_\_ g.p.m. Date 8-17-78  
 Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes  No

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	1
Clay & sand	1	3
Sea-age	3	5
Sand & clay	5	16
Hard an	16	23
Clay, sand & gravel	23	38
Gray clay	38	40
Water, reddish clay & gravel	40	83
Water, coarse sand & gravel	83	93
Gray clay clay & gravel	93	103

RECEIVED  
 AUG 25 1978  
 DEPARTMENT OF ECOLOGY  
 SOUTHWEST REGIONAL OFFICE

Work started 8-7 1978 Completed 8-8 1978

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Richardson Well Drilling Co.  
 (Person, firm, or corporation) (Type or print)

Address P.O. Box 44408 Tacoma, Wa. 98444

[Signed] [Signature]  
 (Well Driller)

License No. 223-02-5500 Date 8-17 1978

The Department of Ecology does NOT warrant the data and/or the information on this Well Report



Pierce County Assessor-Treasurer's Office



Warning: Tax Payer Name Information Is Unavailable.

AEF399

Please Click One Of The Following For Details

Tax & Assessment

Land Characteristics

Building Characteristics

Parcel Map

Recorded Data

Back to Search



For additional mapping options, visit [Map Your Way](#)

Pierce County Assessor-Treasurer  
2401 South 35th St Room 142  
Tacoma, Washington 98409  
(253)798-6111 or Fax (253)798-3142

*I acknowledge and agree to the prohibitions listed in RCW 42.17.260(9) against releasing and/or using lists of individuals for commercial purposes.*

(c) 2001 Pierce County Assessor-Treasurer

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report



Tacoma-Pierce County Health Department

Unique Well ID Number AEP399  
X Y Z 1 2 3

### WELL TAGGING FORM

All shaded areas must be completed.

Date of Field Visit 3-19-99 By Matt + Scott

#### ADDITIONAL WELL IDENTIFIERS

Department of Health System ID Number 183507 Source # SO 1

USGS Site Identification \_\_\_\_\_

Other \_\_\_\_\_

**RECORD VERIFICATION**

Well Report available (please attach)

Well Report not available

Verification inconclusive

**WELL OWNERSHIP, IF DIFFERENT FROM WELL REPORT**

Name DECHAUX MUTUAL WATER

Street Address 9811 DECHAUX RD. E

City PLYMOUTH State WA 98371

**LOCATION OF WELL, IF DIFFERENT FROM WELL REPORT**

Well Address \_\_\_\_\_

City \_\_\_\_\_ County PIERCE

T. 20 N. R. 04 E. W.M. Sec. 16 SE 1/4 of the SE 1/4

Latitude 47 ° 12 ' 59.1 "

Longitude 122 ° 17 ' 48.4 "

- GPS (raw data)
- GPS (corrected)
- Topographic Map
- Survey
- Computer Generated
- Other \_\_\_\_\_

Elevation at land surface \_\_\_\_\_ feet/meters (circle one)

- Digital Altimeter
- Topographic Map
- Other \_\_\_\_\_

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Additional information, if available:

Location marked on topographic map (please attach)

Location marked on air photo (please attach)

AEF 399

Water right #

Priority Date

Circle One: Application Permit Certificate Claim Exempt

WELL CHARACTERISTICS

Physical Description of Well (size of casing, type of well, housing, etc.): *8" cased well, uncovered, in the open field*

Location of Well Identification Tag: *on the 8" casing*

Was supplemental tag needed for ease of identifying well?

NO  YES

If yes, where was tag placed?

Scale 1:24,000 (1"=2,000')

Indicate the location of the well within the Section by drawing a dot at that point.

SECTION 16

TOWNSHIP 20

RANGE 04E

D	X	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

# IRRIGATION WELL WATER WELL REPORT

Start Card No. 219724  
UNIQUE WELL I.D. # \_\_\_\_\_

File Of: First Copy with Ecology  
Depart: \_\_\_\_\_  
Second Copy - Owner's Copy  
Third Copy - Driller's Copy

STATE OF WASHINGTON

Water Right Permit No. \_\_\_\_\_

(1) OWNER: Name JR Quall Construction Address 9709 104<sup>th</sup> St E

(2) LOCATION OF WELL: County Pierce SW 1/4 NW 1/4 Sec 22 T. 20 N. R. 4 E.

(2a) STREET ADDRESS OF WELL (or nearest address) Vally Ave Valley Townhouses

(3) PROPOSED USE:  Domestic  Irrigation  DeWater  Industrial  Test Well  Municipal  Other

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION  
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information

(4) TYPE OF WORK: Owner's number of well (if more than one) 1  
Abandoned  New well  Deepened  Reconditioned   
Method: Dug  Cable  Rotary  Bored  Driven  Jetted

MATERIAL	FROM	TO
<u>Fine silty sand - silt layers</u>	<u>0</u>	<u>40</u>
<u>occasional gravel</u>		
<u>cleaner fine sand some gravel</u>	<u>40</u>	<u>55</u>
<u>fine sandy silt</u>	<u>50</u>	<u>100</u>
<u>fine silty sand some water</u>	<u>100</u>	<u>113</u>

(5) DIMENSIONS: Diameter of well 6" inches.  
Drilled 113 feet. Depth of completed well 52 ft.

(6) CONSTRUCTION DETAILS:  
Casing installed: 6" Diam. from 12 ft. to 45 ft.  
Welded  Liner installed  Threaded   
Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes  No   
Type of perforator used \_\_\_\_\_  
SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes  No   
Manufacturer's Name Johnson  
Type 304 Model No. \_\_\_\_\_  
Diam. 5" Slot size 25 from 46 ft. to 51 ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes  No  Size of gravel \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes  No  To what depth? 20 ft.  
Material used in seal Bentonite +  
Did any strata contain unusable water? Yes  No   
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name \_\_\_\_\_  
Type: \_\_\_\_\_ H.P. \_\_\_\_\_

(8) WATER LEVELS: Land surface elevation above mean sea level \_\_\_\_\_ ft.  
Static level Approx 5' ft. below top of well Date \_\_\_\_\_  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
Artesian water is controlled by \_\_\_\_\_ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made? Yes  No  If yes, by whom? Driller  
Yield: Approx 25 gal./min. with From 4' drawdown after \_\_\_\_\_ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)  
Time Water Level Time Water Level Time Water Level  
Date of test \_\_\_\_\_  
Baller test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Airtest \_\_\_\_\_ gal./min. with stem set at \_\_\_\_\_ ft. for \_\_\_\_\_ hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date By owner  
Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes  No

RECORDED  
94 APR -6 AMO:21  
S W K I L L A N A L I N E

Work Started 7<sup>th</sup> month 1993 completed 8-31 1993

WELL CONSTRUCTOR CERTIFICATION:  
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.  
NAME Holt Testing Inc  
(PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)  
Address 10621 Todd Rd E  
(Signed) Ruby Holt License No. 1099  
Contractor's Registration No. HOLTTE-08705 Date 3-30 1994  
(USE ADDITIONAL SHEETS IF NECESSARY)





DEWATERING WELL

8-17

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report



WATER WELL REPORT

Original & 1st copy - Ecology, 2nd copy - owner, 3rd copy - driller

DEPARTMENT OF ECOLOGY State of Washington

Construction/Decommission ("x" in circle)

[X] Construction

[ ] Decommission ORIGINAL INSTALLATION

Notice of Intent Number

PROPOSED USE: [ ] Domestic [ ] Industrial [ ] Municipal [X] DeWater [ ] Irrigation [ ] Test Well [ ] Other

TYPE OF WORK: Owner's number of well (if more than one) 10 wells [X] New well [ ] Reconditioned Method: [ ] Dug [ ] Bored [ ] Driven [ ] Deepened [ ] Cable [ ] Rotary [ ] Jetted

DIMENSIONS: Diameter of well 1.5 inches, drilled 20 ft. Depth of completed well 20 ft.

CONSTRUCTION DETAILS

Casing [ ] Welded [ ] Liner installed [ ] Threaded Diam. from [ ] ft. to [ ] ft. Installed: [ ] Liner installed [ ] Threaded Diam. from [ ] ft. to [ ] ft.

Perforations: [ ] Yes [X] No

Type of perforator used

SIZE OF perfs [ ] in. by [ ] in. and no. of perfs [ ] from [ ] ft. to [ ] ft.

Screens: [X] Yes [ ] No [ ] K-Pac Location

Manufacturer's Name Western

Type PVC Point Model No.

Diam. 2 in Slot size 20 from 18 ft. to 20 ft.

Diam. Slot size from ft. to ft.

Gravel/Filter packed: [X] Yes [ ] No Size of gravel/sand 10/20

Materials placed from 3 ft. to ft.

Surface Seal: [X] Yes [ ] No To what depth? 3 ft.

Material used in seal Bentonite Chips

Did any strata contain unusable water? [ ] Yes [ ] No

Type of water? Depth of strata

Method of sealing strata off

PUMP: Manufacturer's Name

Type: H.P.

WATER LEVELS: Land-surface elevation above mean sea level ft.

Static level 4 ft. below top of well Date 7/25/2017

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (cap, valve, etc.)

WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? [ ] Yes [ ] No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

Yield: gal./min. with ft. drawdown after hrs.

Yield: gal./min. with ft. drawdown after hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time Water Level Time Water Level Time Water Level

Date of test

Bailer test gal./min. with ft. drawdown after hrs.

Airtest gal./min. with stem set at ft. for hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? [ ] Yes [ ] No

CURRENT

Notice of Intent No. DE02055

Unique Ecology Well ID Tag No. BKT976-BKT985

Water Right Permit No.

Property Owner Name Latitude Development

Well Street Address 102 Todd Rd NE

City Puyallup County: Pierce

Location NW1/4-1/4 NW1/4 Sec 22 Twn 20N R 04E

(s, t, r Still REQUIRED)

EWM [X] Or WWM [ ]

Lat/Long Lat Deg Lat Min/Sec

Long Deg Long Min/Sec

Tax Parcel No. (Required) Road ROW

CONSTRUCTION OR DECOMMISSION PROCEDURE

Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)

Table with columns MATERIAL, FROM, TO. Includes entries for 1.5 inch PVC, Brown soil, Gray silt, Black sand, 3 ft surface seal w/ bentonite chips, 10 /20 colorado sand pack, 2 in x 2 ft PVC Screen, 20 slot screen. Includes 'RECEIVED' stamp dated AUG 29 2017 and WA State Department of Ecology (SWRO) logo.

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

[X] Driller [ ] Engineer [ ] Trainee Name (Print) Randy Harris

Driller/Engineer/Trainee Signature

Driller or trainee License No. 1374

IF TRAINEE: Driller's License No:

Driller's Signature: Randy Harris

Drilling Company Harris Water Well Drilling LLC

Address 3980 E North Island Dr

City, State, Zip Shelton, WA, 98584

Contractor's

Registration No. Harriww873J9

Date 07/25/2017

ECY 050-1-20 (Rev 02/10) If you need this document in an alternate format, please call the Water Resources Program at 360-407-6872.

Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.







Tacoma-Pierce County  
Health Department

Unique Well ID Number A C E 9 0 6  
X Y Z 1 2 3

## WELL TAGGING FORM

All shaded areas must be completed.

19

Date of Field Visit \_\_\_\_\_ By Matt + Kerry

### ADDITIONAL WELL IDENTIFIERS

Department of Health System ID Number 56820 Source # SO 10

USGS Site Identification \_\_\_\_\_  
Other \_\_\_\_\_

### RECORD VERIFICATION

- Well Report available (please attach)  
 Well Report not available  
 Verification inconclusive

### WELL OWNERSHIP, IF DIFFERENT FROM WELL REPORT

Name MOUNTAIN VIEW-EDGEWOOD WATER CO.  
Street Address 11610 32nd St E  
City EDGEWOOD State WA 98372-2099

### LOCATION OF WELL, IF DIFFERENT FROM WELL REPORT

Well Address 4623 MERIDIAN E  
City EDGEWOOD County PIERCE  
T. 20 N. R. 04 E W.M. Sec. 15 SW 1/4 of the SW 1/4

Latitude 47 ° 12 ' 53.9 "

Longitude -122 ° 17 ' 31.09 "

- GPS (raw data)  
 GPS (corrected)  
 Topographic Map  
 Survey  
 Computer Generated  
 Other \_\_\_\_\_

Elevation at land surface \_\_\_\_\_ feet/meters (circle one)

- Digital Altimeter  
 Topographic Map  
 Other \_\_\_\_\_

Additional information, if available:

Location marked on topographic map (please attach)

Location marked on air photo (please attach)

ACE906

19

Water right #

Priority Date

Circle One: Application Permit Certificate Claim Exempt

**WELL CHARACTERISTICS**

Physical Description of Well (size of casing, type of well, housing, etc.):

Location of Well Identification Tag:

Was supplemental tag needed for ease of identifying well?

NO  YES

If yes, where was tag placed?

Scale 1:24,000 (1"=2,000')

Indicate the location of the well within the Section by drawing a dot at that point.

SECTION 15  
TOWNSHIP 20  
RANGE 04E

D	X	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report



Pierce County Assessor-Treasurer's Office



Parcel: R0420153014

Jan-08-2001, 08:44 AM

Name: MT VIEW EDGEWOOD WATER CO

ACE906

Site Address: 4623 MERIDIAN E

Mailing Address: 11610 32ND ST E, EDGEWOOD WA 98372

Use Code: 9100 IDENTIFIES THOSE PARCELS OF LAND THAT ARE UNDEVELOPED.REF MANUAL

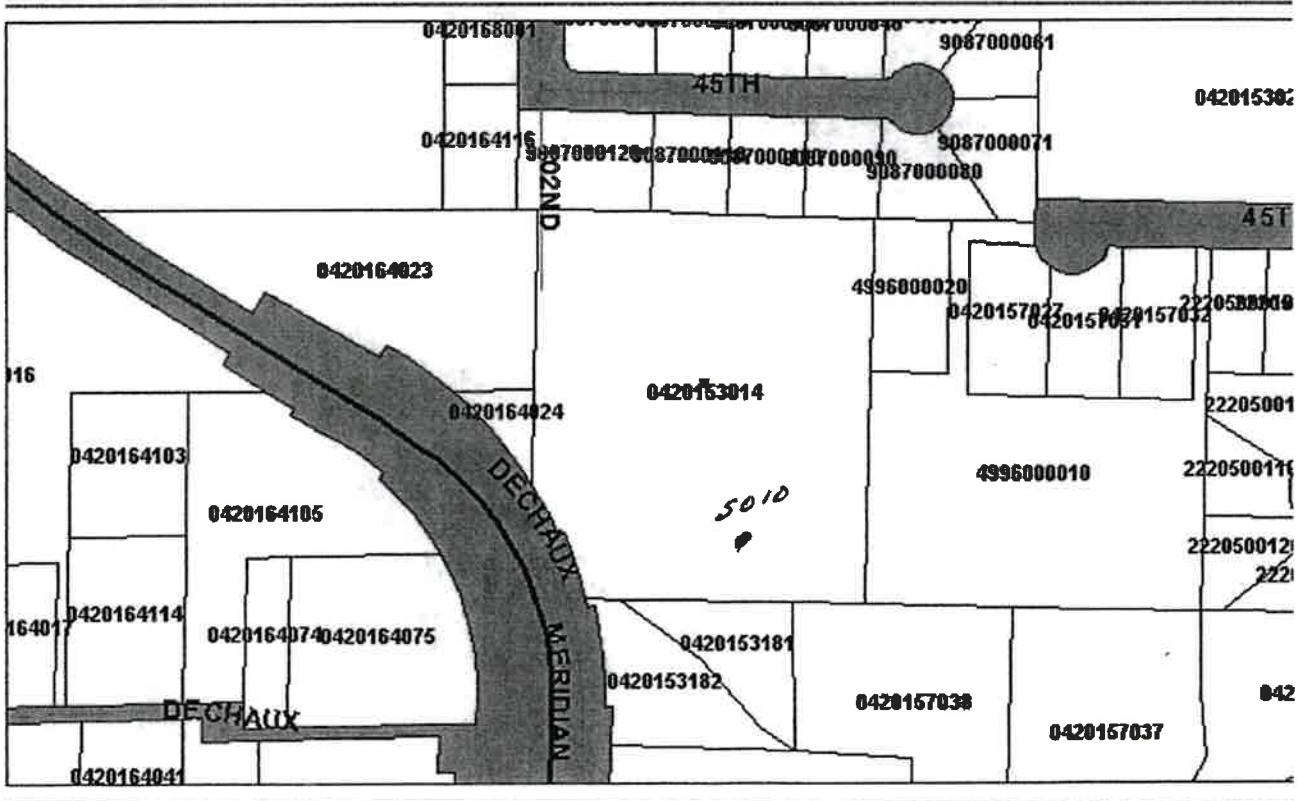
Mh Code:

Click One Tax & Assessment Land Characteristics Building Characteristics Parcel Map Recorded Data Back to S

Zoom Level: 5.0 Zoom

---North---

RTSQ: 04-20-15-3-3 School Dist: Puyallup



Pierce County Assessor-Treasurer
2401 South 35th St Room 142
Tacoma, Washington 98409
(253)798-6111 or Fax (253)798-3142

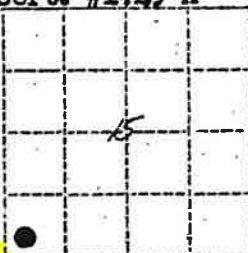
The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

2.1

STATE OF WASHINGTON  
DEPARTMENT OF CONSERVATION  
AND DEVELOPMENT

WELL LOG No. Appli. #3303  
Date June 22, 1953 Cert. #1749-A

Record by Fred B. Roberts  
Source Driller's Record



Location: State of WASHINGTON  
County Pierce  
Area \_\_\_\_\_  
Map \_\_\_\_\_

SW 1/4 SW 1/4 sec. 15 T. 20 N., R. 4 E. DIAGRAM OF SECTION

Drilling Co. Robinson & Roberts, Groundwater Geologists  
Address Tacoma, Washington

Method of Drilling \_\_\_\_\_ Date \_\_\_\_\_ 19\_\_\_\_  
Owner Mt. View-Edgewood Water Co.

Address 4408 N. Meridian St.; Puyallup, Washington  
Land surface, datum \_\_\_\_\_ ft. above  
\_\_\_\_\_ below

CORRE-LATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
--------------	----------	------------------	--------------

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

	Sand & gravel, some clay	22	22
	Clay, yellow, soft some		
	sand & gravel	5	27
	Gravel up to 8" & sand, gray	29	56
	Gravel, sand & clay	3	59
	Gravel & sand, gray	11	70
	Gravel, coarse & sand, gray	12	82
	Hardpan, gray	11	93
Pump Test:			
	Dim: 9 1/4" x 12"		
	SWL: 2.8'		
	Dd: 6'		
	Yield: 580 g.p.m.		
	Casing: 12" diameter Standard drive casing,		
	+2 to 92'		
	Perf: 120 - Mills Knife, 1/2" x 2 1/2", 70' to 82'		

Turn up \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_ sheets



The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File Original and First Copy with Department of Ecology  
Second Copy - Owner's Copy  
Third Copy - Driller's Copy

# Dewatering WATER-WELL REPORT

STATE OF WASHINGTON

Water Right Permit No. \_\_\_\_\_

Start Card No. D-07889

UNIQUE WELL I.D. # \_\_\_\_\_

(1) OWNER: Name Roundup Co. Stone Salisbury Address PO Box 42121 Portland OR 97242

(2) LOCATION OF WELL: County Pierce NW 1/4 NW 1/4 Sec 21 T. 20N N.R. 4E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 2200 North Meridian Puyallup wa 98371

(3) PROPOSED USE:  Domestic  Industrial  Municipal   
 Irrigation  Test Well  Other   
 DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) 1-6  
Abandoned  New well  Method: Dug  Bored   
Deepened  Cable  Driven   
Reconditioned  Rotary  Jetted

(5) DIMENSIONS: Diameter of well 10 inches.  
Drilled 40 feet. Depth of completed well 40 ft.

(6) CONSTRUCTION DETAILS:  
Casing installed: 10 " Diam. from +1 ft. to 40 ft.  
Welded  " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Liner installed  " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Threaded  " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes  No   
Type of perforator used mach. slot  
SIZE of perforations .030 in. by 2 in.  
\_\_\_\_\_ perforations from 40 ft. to 28 ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes  No   
Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes  No  Size of gravel 3/8 Gravel  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes  No  To what depth? 3 ft.  
Material used in seal Bentonite chips  
Did any strata contain unusable water? Yes  No   
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name \_\_\_\_\_ H.P. \_\_\_\_\_  
Type: \_\_\_\_\_

(8) WATER LEVELS: Land-surface elevation above mean sea level \_\_\_\_\_ ft.  
Static level 16 ft. below top of well Date 7-18  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
Artesian water is controlled by \_\_\_\_\_ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made? Yes  No  If yes, by whom? \_\_\_\_\_  
Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)  
Time Water Level Time Water Level Time Water Level

Date of test \_\_\_\_\_  
Baller test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Airtest \_\_\_\_\_ gal./min. with stem set at \_\_\_\_\_ ft. for \_\_\_\_\_ hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes  No

## (10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
<del>Black</del> Brown SILTY sand	0'	10'
Black sand Med to coarse	10'	30'
Grey clayey silty (wet)	30'	35'
Black Silty sand w/ gravel	35'	40'

RECEIVED

AUG 03 1994

DEPT. OF ECOLOGY

Work Started 7-18-94, 19. Completed 7-26, 19 94

## WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Slead Construction Inc (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT) 531-2409

Address 2703 E 96th St Tacoma 98445

(Signed) [Signature] License No. 1852

Contractor's Registration No. Slead #3250 Date 8-1, 19 94

(USE ADDITIONAL SHEETS IF NECESSARY)



The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

*Out of SEARCH RADIUS*

WATER WELL REPORT  
STATE OF WASHINGTON

25

Start Card No. 063586  
Water Right Permit No.

(1) OWNER: Name YAGUCHI TED Address PO BOX 1088 PUYALLUP, WA 98371-  
- NE 1/4 SE 1/4 Sec 16 T 20 N., R 4E WM

(2) LOCATION OF WELL: County PIERCE  
(2a) STREET ADDRESS OF WELL (or nearest address) 4303 90TH AVE E

(3) PROPOSED USE: DOMESTIC (10) WELL LOG *MISLOCATED NE of SW*

(4) TYPE OF WORK: Owner's Number of well (If more than one) Method: AIR ROTARY  
NEW WELL

(5) DIMENSIONS: Diameter of well 6 inches  
Drilled 50 ft. Depth of completed well 50 ft.

(6) CONSTRUCTION DETAILS:  
Casing installed: 6 Dia. from 0 ft. to 44.2 ft.  
WELDED Dia. from ft. to ft.  
Dia. from ft. to ft.

Perforations: NO  
Type of perforator used  
SIZE of perforations in. by in.  
perforations from ft. to ft.  
perforations from ft. to ft.  
perforations from ft. to ft.

Screens: YES  
Manufacturer's Name JOHNSON WELL  
Type Model No.  
Diam. 6 slot size 30 from 44.2 ft. to 50 ft.  
Diam. slot size from ft. to ft.

Gravel packed: NO Size of gravel  
Gravel placed from ft. to ft.

Surface seal: YES To what depth? 18 ft.  
Material used in seal BENTONITE CLAY  
Did any strata contain unusable water? NO  
Type of water? Depth of strata ft.  
Method of sealing strata off

(7) PUMP: Manufacturer's Name RED JACKET Type SUBMERSIBLE H.P. 1/2

(8) WATER LEVELS: Land-surface elevation above mean sea level ... ft.  
Static level 7 ft. below top of well Date 02/25/91  
Artesian Pressure lbs. per square inch Date / /  
Artesian water controlled by

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.  
Was a pump test made? NO If yes, by whom?  
Yield: gal./min with ft. drawdown after hrs.

Recovery data  
Time Water Level Time Water Level Time Water Level

Date of test / /  
Bailer test 20 gal/min. B ft. drawdown after 1 hrs.  
Air test gal/min. w/ stem set at ft. for hrs.  
Artesian flow g.p.m. Date  
Temperature of water Was a chemical analysis made? NO

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

MATERIAL	FROM	TO
GRAVEL AND TOPSOIL	0	1
TOPSOIL	1	3
SAND	3	7
BEEPAGE SAND CLAY	7	16
PACKED SAND WOOD	16	19
COMPACTED SAND AND SOME GRAVEL	19	36
SANDY CLAY	36	47
WATER SAND & GRAVEL	47	50

Work started 02/22/91 Completed 02/25/91

WELL CONSTRUCTOR CERTIFICATION:  
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME RICHARDSON WELL DRILLING  
(Person, firm, or corporation) (Type or print)

ADDRESS PO BOX 44427 TAC WA 98444

[SIGNED] *Rich J. Richardson* license No. 0284  
Contractor's Registration No. RICHAN#3210B Date 03/14/91