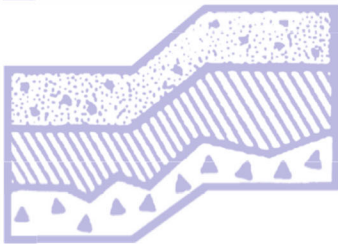


**DRAFT**

**GEOTECHNICAL REPORT**

**Chehalis Landing  
2844 Jackson Highway  
Lewis County, Washington**

**Project No. T-8643-1**

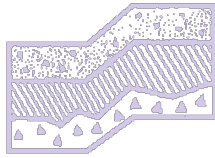


**Terra Associates, Inc.**

**Prepared for:**

**CRG  
St. Louis, Missouri**

**May 3, 2022**



# TERRA ASSOCIATES, Inc.

Consultants in Geotechnical Engineering, Geology  
and  
Environmental Earth Sciences

May 3, 2022  
Project No. T-8643-1

**DRAFT**

Mr. Ted Knapp  
CRG  
2199 Innerbelt Business Center Drive  
St. Louis, Missouri 63114

Subject: Geotechnical Report  
Chehalis Landing  
2844 Jackson Highway  
Lewis County, Washington

Dear Mr. Knapp:

As requested, we have conducted a geotechnical engineering study for the subject project. The attached report presents our findings and recommendations for the geotechnical aspects of project design and construction.

In general, the native soils observed in the site explorations generally consist of one to two feet of loose organic silt with sand overlying one to five feet of soft to medium stiff silt with sand, sandy silt or clayey silt, over medium dense to dense clayey gravelly sand intermixed with silty sand to the termination depth of the test pits. The native silt and clay soils are typically low to medium plastic, although we would note that previous explorations, performed by others, indicated highly plastic clays were observed across the site at varying depths.

Below the clayey silt observed across the site, Test pits TP-20 and TP-24 appeared to be in a relatively obvious bedded formation consisting of previously observed clayey silt at the top and bedded layers of silty sands, clayey gravels and silt. Test pits TP-9, TP-11, TP-12, TP-25, TP-26, TP-104, TP-108, TP-109 and TP-111 terminated in medium stiff to very stiff sandy silt or clay.

The soil conditions observed in our recent test pits are generally consistent with those observed by others.

In our opinion, building support using standard spread footing foundations will be feasible. However, in order to gain suitable support, all foundations will need to bear on a minimum of two feet of granular structural fill following the successful completion of a preload program. We anticipate that the fill used to raise grade will be sufficient for the preload program.

Mr. Ted Knapp  
May 3, 2022

The attached report presents our recommendations regarding foundation support along with other geotechnical aspects of project design and construction. We trust the information presented in this report is sufficient for your current needs. If you have any questions or require additional information, please call.

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

Stephanie L. King, E.I.T.  
Staff Engineer



Carolyn S. Decker, P.E.  
President

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# **Geotechnical Report Chehalis Landing 2844 Jackson Highway Chehalis, Washington**

## **1.0 PROJECT DESCRIPTION**

The proposed project consists of constructing an industrial complex and associated parking and infrastructure improvements. The development and grading plans were not available at the time of this report. Based on a previous site plan, the site stormwater will be collected and directed to a stormwater pond in the southern portion of the site.

We expect the building or buildings will be constructed using precast concrete tilt-up perimeter wall panels with interior isolated columns supporting roof framing. Structural loading is expected to be relatively light with isolated columns carrying loads of 75 to 150 kips, and bearing walls carrying 4 to 8 kips per foot. We expect that product loading on the slab-on-grade floor would be in the range of 350 pounds per square foot (psf).

The recommendations in the following sections of this report are based on our understanding of the design features outlined above. We should review design drawings as they become available to verify that our recommendations have been properly interpreted and to supplement them, if required.

## **2.0 SCOPE OF WORK**

Our work was completed in accordance with our authorized proposal dated November 10, 2021. Accordingly on December 2 and 3 of 2021, we supplemented existing subsurface information at the site by observing soil and groundwater conditions in 30 test pits excavated to maximum depths of about 8 to 10 feet with a mini track-mounted excavator. On March 14 of 2022, we supplemented this data by excavating an additional 15 test pits 8 to 10 feet below current site grades. Using the results of our field study and laboratory testing along with existing subsurface data, analyses were undertaken to develop geotechnical recommendations for project design and construction. Specifically, this report addresses the following:

- Soil and groundwater conditions.
- Geologic hazards per Lewis County Code. (LCC)
- Seismic design parameters per the current International Building Code. (IBC)
- Site preparation and grading.
- Foundations.

- Floor slabs.
- Stormwater facilities.
- Infiltration feasibility.
- Drainage.
- Utilities.
- Pavements.

It should be noted that the recommendations outlined in this report regarding drainage are associated with soil strength, design earth pressures, erosion, and stability. Design and performance issues with respect to moisture as it relates to the structural environment is beyond Terra Associates' purview. A building envelope specialist or contractor should be consulted to address these issues, as needed.

### **3.0 SITE CONDITIONS**

#### **3.1 Surface**

The site is an irregular shaped, approximately 69-acre property located at 2844 Jackson Highway in Chehalis, Washington. The approximate location of the site is shown on Figure 1.

Jackson Highway runs from northwest to southeast along the eastern property border, Rush Road runs north to south along the western border of the property and Berwick Creek is to the south of the property. The site contains several shallow ditches for stormwater management. A single-family home with related outbuildings and access occupies the northeast center of the site.

Existing surface gradients are relatively flat, sloping gently from east to west, with an overall relief of approximately 20 feet. Site vegetation consists predominantly of field grasses with lesser of tall grass and weeds.

#### **3.2 Soils**

The native soils observed in the site explorations generally consist of one to two feet of loose organic silt with sand overlying one to five feet of soft to medium stiff silt with sand, sandy silt or clayey silt, over medium dense to dense clayey gravelly sand intermixed with silty sand to the termination depth of the test pits. The native silt and clay soils are typically low to medium plastic, although we would note that previous explorations, performed by others, indicated highly plastic clays were observed across the site at varying depths.

Below the clayey silt observed across the site, Test pits TP-20 and TP-24 appeared to be in a relatively obvious bedded formation consisting of previously observed clayey silt at the top and bedded layers of silty sands, clayey gravels and silt. Test pits TP-9, TP-11, TP-12, TP-25, TP-26, TP-104, TP-108, TP-109 and TP-111 terminated in medium stiff to very stiff sandy silt or clay.

The soil conditions observed in our recent test pits are generally consistent with those observed by others.

The *Geologic Map of the Centralia 7.5 minute Quadrangle, Washington* by Andrew J. Sadowski, William E. Keller, Michael Polenz, Todd R. Lou, Recep Cakir, Elizabeth Nesbitt, Jeffrey H. Tepper, S. Andrew DuFrane, and Gabriel Legorreta Paulín (2018) shows the site soils mapped as Alluvium (Qo and Qoa). The soils we observed in our subsurface explorations are generally consistent with the descriptions of these geologic map units.

Detailed descriptions of the subsurface conditions we observed in our site explorations are presented on the Test Pit Logs in Appendix A. The explorations completed by others are in Appendix B. The approximate test pit locations are shown on Figure 2.

### **3.3 Groundwater**

We observed light to heavy groundwater seepage between depths of approximately 1.5 to 4 feet in the 45 test pits. We would also note that the groundwater levels observed in early December 2021 were averaging about 1-foot deeper than the observations noted during our recent exploration in March 2022. We expect that groundwater levels at the site will fluctuate seasonally with highest levels occurring during the wet winter and spring months, as observed in our recent explorations.

Our recent work did not include monitoring of groundwater levels. Terracon had previously completed a study at the site that included installing four groundwater monitoring wells and observing the groundwater levels. The groundwater observations were noted during drilling on January 6 and 7, 2021 and were periodically checked manually on February 8, 2021, May 21, 2021, and July 28, 2021. Depths during drilling were inferred based on moisture difference between samples and were noted between 9.5 and 25 feet. February 2021 had water level indications of 0.75-feet to 5 feet, May 2021 water levels indicated levels between 3 and 5.25 feet, and by July 2021, two of the wells were decommissioned and water levels were recorded between 6 and 6.25 feet. The groundwater levels recorded by the manual measurements are presented as depths below grade referenced to the ground surface at the time of exploration.

### **3.4 Geologic Hazards**

The Lewis County Code (LCC) does not specifically define geologically hazardous areas; however, we evaluated site conditions for the presence of erosion, steep slopes/landslide, seismic, volcanic, and mine hazard areas as specified in Section 17.38 of the LCC. Discussions related to erosion, landslide, and seismic hazards are given below.

#### ***3.4.1 Erosion Hazard Areas***

The LCC categorizes erosion hazard areas as either severe or moderate. Chapter 17.38.640 of the LCC defines severe erosion hazard areas as "...those areas that have severe or very severe erosion potential as detailed in the soil descriptions contained in the Web Soil Survey for Lewis County, Washington, Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture."

The United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) maps the majority of the site soils as *Lacamas silt loam, 0 to 3 percent slopes* with a portion classified as *Reed silty clay loam* (running northwest to southeast, along Jackson Highway) and lesser of *Galvin silt loam, 0 to 8 percent slopes* (surrounding the building located at the project site address). These soils are described by the NRCS as having a slight erosion hazard, with only the portion surrounding the existing house as moderate erosion hazard. Based on the soils and relatively flat project site, the site does not meet the above criteria defining moderate or severe erosion hazard areas.

The site soils will be susceptible to erosion when exposed during construction. In our opinion, proper implementation and maintenance of Best Management Practices (BMPs) for erosion prevention and sedimentation control will adequately mitigate the erosion potential in the planned development area. Erosion protection measures as required by the Lewis County will need to be in place prior to and during grading activity on the site.

### **3.4.2 Steep Slope and Landslide Hazard Areas**

Section 17.38.650 of the LCC defines steep slope and landslide hazard areas as:

“(1) Classification of Steep Slope Hazard Areas. Steep slope hazard areas are areas where there is not a mapped or designated landslide hazard, but where there are steep slopes equal to or greater than a 35 percent slope with a vertical relief of 10 or more feet. Steep slopes which are less than 10 feet in vertical height and are not part of a larger steep slope system, and steep slopes created through previous legal grading activity, are not regulated steep slope hazard areas. Presence of a steep slope suggests potential slope stability problems.

(2) Classification of Landslide Hazard Areas. Landslide hazard areas are those areas meeting any of the following criteria:

- (a) Areas subject to previous slope failures, including areas of unstable old or recent landslides;
- (b) Areas with all of the following characteristics:
  - (i) A slope greater than 15 percent;
  - (ii) Hillsides intersecting geologic contacts with a relatively permeable sediment overlying a relatively impermeable sediment or bedrock; and
  - (iii) Springs or ground water seepage;
- (c) Slopes that are parallel or sub-parallel to planes of weakness (such as bedding planes, joint systems, and fault planes) in subsurface materials;
- (d) Slopes having gradients greater than 80 percent subject to rockfall during seismic shaking;



- (e) Areas potentially unstable as a result of rapid stream incision and streambank erosion or undercutting;
  - (f) Areas located in a canyon, on an alluvial fan, or presently or potentially subject to inundation by debris flows or catastrophic flooding.
- (3) Mapped Landslide Hazard Areas. Landslide hazard areas include the following mapped sources:
- (a) Areas mapped as “unstable,” “landslides,” and “old landslides” in the Slope Stability Study of the Centralia-Chehalis Area, Lewis County, Washington, by Allen J. Fiksdal, Department of Natural Resources, Division of Geology and Earth Resources, 1978.
  - (b) Areas included in the Landslides and Landforms maps available from the Washington Department of Natural Resources Division of Geology and Earth Resources, dated July 2016 or as amended.”

Based on a review of the DNR, there are documented landslides that are located northeast of the site; however, the site is relatively flat with no signs of sloughed material observed on-site, and therefore the site does not meet any criteria listed in the LCC for landslide or steep slope hazard areas.

### **3.4.3 Seismic Hazard Areas**

Chapter 17.38.660 of the LCC defines seismic hazard areas as:

- “(1) Classification of Seismic Hazard Areas. Seismic hazard areas are locations subject to severe risk of damage as a result of earthquake-induced soil liquefaction, ground shaking amplification, slope failure, settlement, or surface faulting.
- (a) All structures that require a building permit within Lewis County are required to be consistent with the D1 seismic zone (as specified in the International Building Code).
  - (b) Active faults or trenches are considered seismic hazards.
  - (c) Areas of known faults and soil liquefaction hazards are depicted in Ground Response Geographic Information System data dated June 2010 and Seismogenic Features data dated April 2016 and retrieved from the Washington Department of Natural Resources Division of Geology and Earth Resources.”

Liquefaction is a phenomenon where there is a reduction or complete loss of soil strength due to an increase in water pressure induced by vibrations. Liquefaction mainly affects geologically recent deposits of loose, fine-grained sands underlying the groundwater table. Soils of this nature derive their strength from intergranular friction. The generated water pressure or pore pressure essentially separates the soil grains and eliminates this intergranular friction; thus, eliminating the soil’s strength. Due to the predominantly medium dense to dense consistency of the alluvial deposits underlying the site and relatively high percentages of soil fines, which give the soils cohesive strength, it is our opinion that the potential for site damage due to soil liquefaction is low.

Based on our study, it is our opinion that the risk for damage resulting from earthquake-induced slope failure, settlement, lateral spreading, or surface faulting is negligible. Therefore, in our opinion, unusual seismic hazard areas do not exist at the site, and design in accordance with local building codes for determining seismic forces would adequately mitigate project impacts associated with ground shaking.

#### **3.4.4 Volcanic Hazard Areas**

Chapter 17.38.670 of the LCC defines volcanic hazard areas as:

“(1) Classification of Volcanic Hazard Areas. Volcanic hazard areas are locations where the risk to life and property by a large volcanic event is high. For the purpose of these regulations, damage from lahars and near volcano hazards constitute the primary volcanic hazards. Volcanic tephra (ash), while disruptive and potentially dangerous, is not considered a volcanic hazard that is subject to these regulations.

(a) Volcanic hazard areas are shown on maps available from the United States Geological Service (USGS) Volcano Hazards Program.”

Based on available information, no volcanic hazards are within the project site, and therefore the site does not meet any criteria listed in the LCC for volcanic hazard areas.

#### **3.4.5 Mine Hazard Areas**

Chapter 17.38.680 of the LCC defines mine hazard areas as:

“(1) Classification of Mine Hazard Areas. Mine hazard areas are those areas within 100 horizontal feet of a mine opening at the surface or which are underlain at a depth of 300 feet or less by mine workings. Known locations of historic mines are identified in the Washington State Department of Natural Resources, Division of Geology and Earth Resources, Open File Report 94-7; The Washington State Coal Mines Map Collection: A Catalog, Index, and User’s Guide, by H.W. Schaase, M. Lorraine Koler, Nancy A. Eberle, and Rebecca A. Christie, 1994, 107 pages; Open File Report 84-6, Inventory of Abandoned Coal Mines in the State of Washington, by F.V. LaSalata, M.C. Meard, T.J. Walsh, and H.W. Schaase, 1985, 42 pages; and specific maps and surveys of mine workings on file with the Division of Geology and Earth Resources.”

Based on a review of the DNR, no known mining operations are within 300 feet of the project site, and therefore the site does not meet any criteria listed in the LCC for mine hazard areas.

### **3.5 Seismic Design Parameters**

Based on soil conditions observed in the subsurface explorations, and our knowledge of the area geology, per the current Seattle Building Code, site class “D” should be used in structural design.

## **4.0 DISCUSSION AND RECOMMENDATIONS**

### **4.1 General**

Based on our study, the primary geotechnical concerns at the site are the shallow groundwater table and compressible upper silts and clays. The soft, fine grained native soil layers observed at the site will consolidate under static dead loads imposed by the structure or structures and by product loading on structure floor slabs. To mitigate the potential for post-construction settlement due to this consolidation, we recommend preloading the building locations. Preloading will involve placing structural fill and allowing settlements to occur under this load before building construction is initiated.

After completing the preload, building construction can begin. The buildings can be supported on conventional spread footings bearing on a minimum of two feet of compacted structural fill.

The proximity of the water table to existing grade that will make it difficult to perform typical cut and fill operations for expected building and dock high construction. During the wet winter months, excavations depths of two feet or more below existing surface grades should be expected to encounter groundwater seepage. In our opinion, site grades should be raised using compacted structural fill such that dock high loading areas do not require cuts into native soils below the water table. If the site is not raised enough for clearance of groundwater, then over-excavation and replacement of some native soils will need to occur.

The site soils contain a significant amount of fines (silt- and clay-sized particles) such that they will be extremely difficult to compact as structural fill when too wet. Accordingly, the ability to use the soils from site excavations as structural fill will depend on their moisture content and the prevailing weather conditions at the time of construction. If grading activities will take place during the winter season, the owner should be prepared to import free-draining granular material for use as structural fill and backfill.

Detailed recommendations regarding these issues and other geotechnical design considerations are provided in the following sections of this report. These recommendations should be incorporated into the final design drawings and construction specifications.

### **4.2 Site Preparation and Grading**

To prepare the site for construction, all vegetation, organic surface soils, and demolition debris should be stripped and removed from the site. Demolition of existing structures should include removal of existing foundations and abandonment of underground septic systems and other buried utilities. Abandoned utility pipes that fall outside of new building areas can be left in place provided they are sealed to prevent intrusion of groundwater seepage and soil. Based on our test pits, surface stripping depths ranging 12 to 24 inches should be expected to remove organic topsoil. Organic topsoil will not be suitable for use as structural fill, but may be used for limited depths in nonstructural areas or for landscaping purposes. Localized areas, such as soils observed near along the southwestern border had organic inclusions to a depth of about three feet (Test Pits TP-21) will not be suitable for support of new fill or building elements. Excavation and replacement of these soils with new structural fill is recommended.

Once clearing and grubbing operations are complete, grading to establish desired building grades can be initiated. In order to achieve proper compaction of the building fill, the native subgrade must be in a relatively stable condition. If excessively soft and yielding subgrade is observed and it cannot be stabilized in place by aeration and compaction, stabilizing by the use of an additive such as cement or lime will need to be considered. Alternatively, the unstable soils can be excavated and replaced with clean granular structural fill. If the depth of excavation to remove unstable soils is excessive, use of geotextile fabric such as Mirafi 500X or equivalent in conjunction with clean granular structural fill can be considered in order to limit the depth of removal. In general, our experience has shown that a minimum of 18 inches of clean, granular structural fill over the geotextile fabric should establish a stable bearing surface.

As noted, we recommend raising existing grade across the site due to the shallow water table. We recommend spread footing foundations obtain support on a minimum of two feet of compacted granular structural fill. By raising the finish floor grade, with the exception of perimeter footings in the loading dock areas, there should be a sufficient thickness of structural fill within the building limits to provide this support. In the dock-high loading areas, overexcavation of the native soils and replacement with granular structural fill may be required. The structural fill should extend laterally from the edges of the footings a minimum distance of one-foot. The structural fill used for this purpose should consist of wet weather structural fill, as outlined later in this section, or equivalent granular material.

Our study indicates that the native soils contain a high percentage of fines (silt and clay size particles). These soils will be extremely difficult to compact as structural fill when too wet or too dry. Accordingly, the ability to use native soils from site excavations as structural fill will depend on their moisture content and the prevailing weather conditions at the time site grading activities take place. Laboratory testing indicates that at the time of our study, in general, the soil's moisture content was above optimum for compaction. In order to use these materials for structural fill, the owner should consider drying by aeration during dry weather conditions or using an additive such as cement or lime to stabilize the soil.

If grading activities are planned during the wet winter months, and the on-site soils become too wet to achieve adequate compaction, the owner or contractor should be prepared to treat soils with lime or cement, or import wet weather structural fill. For wet weather structural fill, we recommend importing a granular soil that meets the following grading requirements:

| <b>U.S. Sieve Size</b> | <b>Percent Passing</b> |
|------------------------|------------------------|
| 6 inches               | 100                    |
| No. 4                  | 75 maximum             |
| No. 200                | 5 maximum*             |

\*Based on the 3/4-inch fraction.

Prior to use, Terra Associates, Inc. should examine and test all materials to be imported to the site for use as structural fill. If the building subgrade is constructed using native soils and will be exposed during wet weather, it would be advisable to place 12 inches of this granular structural fill on the building pad to prevent deterioration of the floor subgrade.

Structural fill should be placed in uniform loose layers not exceeding 12 inches and compacted to a minimum of 95 percent of the soil's maximum dry density, as determined by American Society for Testing and Materials (ASTM) Test Designation D-1557 (Modified Proctor). The moisture content of the soil at the time of compaction should be within two percent of its optimum, as determined by this ASTM standard. The native silt and clay soils should be placed in uniform loose layers not exceeding 6 inches and compacted to the above standards using sheeps foot equipment. In nonstructural areas, the degree of compaction can be reduced to 90 percent.

### ***Preload Program***

The native fine grained low to medium plasticity clayey silt was noted to be soft and based on previous laboratory test results, normally consolidated. As it is anticipated to raise the site grade to avoid over excavation and replacement of such soils, we believe the fill required to raise grade would serve as a preload prior to establishing grade. At minimum any fill material placed to establish building grades should be allowed to settle out prior to building construction. Assuming a two-foot fill depth we estimate the amount of consolidation settlement could be around one to two inches occurring over a nine-week period.

To verify the amount of settlement and the rate of movement, the preload program should be monitored by installing settlement markers. A typical settlement marker installation is shown on Figure 3. The settlement markers should be installed on the existing grade prior to placing any building fills. Once installed, elevations of both the fill height and marker should be taken daily until the full height of the building fill is in place. Once final grades are achieved, readings should continue weekly until the anticipated settlements have occurred.

It is critical that the grading contractor recognize the importance of the settlement marker installations. All efforts must be made to protect the markers from damage during fill placement. It will be nearly impossible to evaluate the progress of the surcharge program if the markers are damaged or destroyed by construction equipment. As a result, it may be necessary to install new markers and extend the surcharging period in order to ensure that settlements have ceased and building construction can begin.

### **4.3 Excavations**

All excavations at the site associated with confined spaces, such as utility trenches, must be completed in accordance with local, state, and federal requirements. Based on regulations outlined in the Washington Industrial Safety and Health Act (WISHA), the soils would be classified as Type C soils.

For properly dewatered excavations more than 4 feet, but less than 20 feet deep, the side slopes should be laid back at a slope inclination of 1.5:1 (Horizontal:Vertical) or flatter. If there is insufficient room to complete the excavations in this manner, or if excavations greater than 20 feet in depth are planned, temporary shoring to support the excavations may be required. Properly designed and installed shoring trench boxes can be used to support utility trench excavations where required.

Groundwater seepage should be anticipated within excavations extending below depths of about one and one-half to four feet particularly during the wet winter season. Based on our study, we expect that the volume of water and rate of seepage into the excavation is expected to be moderate which would likely impact the stability of excavations that are sloped as described above. Therefore, the contractor should anticipate the use of shoring boxes in excavations deeper than about four feet. We expect that excavations that extend no more than about two to three feet below the groundwater table can be dewatered using conventional sump-pumping procedures along with a system of collection trenches. Deeper excavations may require more significant dewatering efforts.

The above information is provided solely for the benefit of the owner and other design consultants, and should not be construed to imply that Terra Associates, Inc. assumes responsibility for job site safety. It is understood that job site safety is the sole responsibility of the project contractor.

#### **4.4 Foundations**

Provided the site grade is raised to accommodate the proposed construction, the building may be supported on conventional spread footing foundations bearing on a minimum of two feet of structural fill following the completion of the preload program. Perimeter foundations exposed to the weather should be at a minimum depth of 1.5 feet below final exterior grades.

We recommend designing foundations for a net allowable bearing capacity of 2,500 psf. For short-term loads such as wind and seismic, a one-third increase in this allowable capacity can be used. With the anticipated structural loading and this bearing stress applied, estimated total settlement of one-inch may be expected with differential settlement between columns and perimeter bearing walls of about one-half inch.

With tilt up wall panel construction, the continuous strip footings are not initially uniformly loaded but rather, are subject to isolated point loading from shimming of the wall panel. This point loading causes excessive bending in the footing that can cause the footing to break or fracture. In particular, if cuts near or at the water table are required, it may be necessary to evaluate the footing as a beam on an elastic foundation subject to point loading that will be imposed by the wall panels. With support obtained on a minimum of two feet of granular structural fill, a subgrade modulus ( $k_s$ ) of 110 pounds per cubic inch (pci) can be used for this analysis. If excessive bending that could cause fracturing is indicated, the footing should be stiffened to resist this bending.

For designing foundations to resist lateral loads, a base friction coefficient of 0.35 can be used. Passive earth pressures acting on the side of the footing and buried portion of the foundation stem wall can also be considered. We recommend calculating this lateral resistance using an equivalent fluid weight of 350 pcf. We recommend not including the upper 12 inches of soil in this computation because they can be affected by weather or disturbed by future grading activity. This value assumes the foundation will be constructed neat against competent fill soil or backfilled with structural fill as described in Section 4.2. The recommended value includes a safety factor of 1.5.

#### **4.5 Slab-on-Grade Floors**

Slab-on-grade floors may be supported on a subgrade prepared as recommended in Section 4.2 of this report. Immediately below the floor slab, we recommend placing a four-inch thick capillary break layer composed of clean, coarse sand or fine gravel that has less than five percent passing the No. 200 sieve. This material will reduce the potential for upward capillary movement of water through the underlying soil and subsequent wetting of the floor slab.

The capillary break layer will not prevent moisture intrusion through the slab caused by water vapor transmission. Where moisture by vapor transmission is undesirable, such as covered floor areas, a common practice is to place a durable plastic membrane on the capillary break layer and then cover the membrane with a layer of clean sand or fine gravel to protect it from damage during construction, and aid in uniform curing of the concrete slab. It should be noted that if the sand or gravel layer overlying the membrane is saturated prior to pouring the slab, it will be ineffective in assisting uniform curing of the slab and can actually serve as a water supply for moisture seeping through the slab and affecting floor coverings. Therefore, in our opinion, covering the membrane with a layer of sand or gravel should be avoided if floor slab construction occurs during the wet winter months and the layer cannot be effectively drained.

A subgrade modulus ( $k_s$ ) of 110 pounds per cubic inch (pci) can be used for floor slab design in support of rack and lift vehicle loading.

#### **4.6 Lateral Earth Pressures for Wall Design**

The magnitude of earth pressure development on below-grade walls will partly depend on the quality of the wall backfill. We recommend placing and compacting wall backfill as structural fill as described in Section 4.2 of this report. To guard against hydrostatic pressure development, wall drainage must also be installed. A typical recommended wall drainage detail is shown on Figure 4.

With wall backfill placed and compacted as recommended, and drainage properly installed, we recommend designing unrestrained walls for an active earth pressure equivalent to a fluid weighing 35 pounds per cubic foot (pcf). For restrained walls, an additional uniform load of 100 psf should be added to the 35 pcf. To account for typical traffic surcharge loading, the walls can be designed for an additional imaginary height of two feet (two-foot soil surcharge). For evaluation of wall performance under seismic loading, a uniform pressure equivalent to  $8H$  psf, where  $H$  is the height of the below-grade portion of the wall should be applied in addition to the static lateral earth pressure. These values assume a horizontal backfill condition and that no other surcharge loading, sloping embankments, or adjacent buildings will act on the wall. If such conditions exist, then the imposed loading must be included in the wall design. Friction at the base of foundations and passive earth pressure will provide resistance to these lateral loads. Values for these parameters are provided in Section 4.2.

#### **4.7 Stormwater Detention Pond**

As discussed, development stormwater will likely be routed to a stormwater pond located in the southern portion of the site. We expect that the pond would be constructed predominantly of cuts into native soil. Based on the recent groundwater monitoring data provided by Terracon and our recent explorations observed in both December 2021 and March 2022, the functional depths of the pond during the wintertime would be limited to about two to four feet below existing ground surface.

##### ***Detention Pond***

If fill berms are constructed, the berm locations should be stripped of topsoil, duff, and soils containing organic material prior to the placement of fill. The fill berms should be constructed by placing structural fill in accordance with recommendations outlined in Section 4.2 of this report. Material used to construct pond berms should consist of predominately granular soils with a maximum size of three inches and a minimum of 20 percent fines. The results of laboratory testing indicate that soils meeting this gradational requirement exist on-site. Terra Associates, Inc. should examine and test all on-site or imported materials proposed for use as berm fill prior to their use.

Because of exposure to fluctuating stored water levels, soils exposed on the interior pond slopes may be subject to some risk of periodic shallow instability or sloughing. Establishing interior slopes at a gradient of 3:1 (Horizontal: Vertical) will significantly reduce or eliminate this potential. Exterior berm slopes and interior slopes above the maximum water surface should be graded to a finished inclination no steeper than 2:1 (Horizontal: Vertical). Finished slope faces should be thoroughly compacted and vegetated to guard against erosion.

We should review the stormwater plans when they are completed and revise our recommendations, if required.

#### **4.8 Infiltration Feasibility**

Although portions of the native sand and gravel soils would generally be favorable for infiltration, there is insufficient separation between the top of the sand and gravel formation and the seasonal high groundwater table to allow for infiltration facilities. The upper silty sand and silty gravel soils have a high soil fines content and degree of consolidation such that these soils exhibit relatively low permeability. This coupled with groundwater seepage conditions observed in the test pits would preclude the use of infiltration facilities for discharge of development stormwater by infiltration, in our opinion.

#### **4.9 Drainage**

##### ***Surface***

Final exterior grades should promote free and positive drainage away from the building at all times. Water must not be allowed to pond or collect adjacent to foundations, or within the immediate building area. If a positive drainage gradient cannot be provided, surface water should be collected adjacent to the structure for discharge into the site stormwater system.



### ***Subsurface***

We recommend installing perimeter foundation drains adjacent to shallow foundations where paved surfaces do not extend to building perimeter and positive drainage away from the structure is not provided. The drains can be laid to grade at an invert elevation equivalent to the bottom of footing grade. The drains can consist of four-inch diameter perforated PVC pipe that is enveloped in washed pea gravel-sized drainage aggregate. The aggregate should extend six inches above and to the sides of the pipe. Roof and foundation drains should be tightlined separately to the storm drains. All drains should be provided with cleanouts at easily accessible locations.

#### **4.10 Utilities**

Utility pipes should be bedded and backfilled in accordance with American Public Works Association (APWA) or local jurisdictional requirements. At minimum, trench backfill should be placed and compacted as structural fill, as described in Section 4.2. As noted, the native soils are extremely moisture sensitive and will require careful control of moisture to facilitate proper compaction. If utility construction takes place during the winter or if it is not feasible to properly moisture condition the excavated soil at the time of construction, it may be necessary to import suitable wet weather fill for utility trench backfilling.

#### **4.11 Pavements**

Pavement subgrades should be prepared as described in Section 4.2 of this report. Regardless of the degree of relative compaction achieved, the subgrade must be firm and relatively unyielding before paving. The subgrade should be proofrolled with heavy rubber-tired construction equipment such as a loaded ten yard dump truck to verify this condition.

The pavement design section is dependent upon the supporting capability of the subgrade soils and the traffic conditions to which it will be subjected. We expect traffic at the facility will consist of cars and light trucks, along with heavy traffic in the form of semi-trucks. For design considerations, we have assumed traffic in parking and in car/light truck access pavement areas can be represented by an 18-kip Equivalent Single Axle Loading (ESAL) of 50,000 over a 20-year design life. For heavy traffic pavement areas, we have assumed an ESAL of 300,000 would be representative of the expected loading. These ESALs represent loading approximately equivalent to 3 and 18, loaded (80,000 pound GVW) semi-trucks traversing the pavement daily in each area, respectively.

With a stable subgrade prepared as recommended, we recommend the following pavement sections:

##### Light Traffic and Parking:

- Two inches of hot mix asphalt (HMA) over six inches of crushed rock base (CRB)
- Full depth HMA – 4 inches

Heavy Traffic:

- Three inches of HMA over eight inches of CRB
- Full depth HMA – 5.5 inches

For exterior Portland cement concrete (PCC) pavement, we recommend the following:

- 6 inches of PCC over two inches of CRB
  - 28 day compressive strength – 4,000 psi
  - Control joints spaced at a maximum of 15 feet

Soil cement stabilization or constructing a soil cement base for support of the pavement section can also be considered as an alternate to the above conventional pavement sections. Assuming a properly constructed soil cement base having a minimum thickness of 12 inches and a minimum 7-day compressive strength of 100 pounds per square inch (psi), a minimum HMA pavement thickness of 3 inches would be required for the heavy traffic areas. The design of the soil cement base should be completed using samples of the subgrade exposed at the time of construction.

The paving materials used should conform to the Washington State Department of Transportation (WSDOT) specifications for half-inch class HMA, PCC, and CRB.

Long-term pavement performance will depend on surface drainage. A poorly-drained pavement section will be subject to premature failure as a result of surface water infiltrating the subgrade soils and reducing their supporting capability. For optimum performance, we recommend surface drainage gradients of at least two percent. Some degree of longitudinal and transverse cracking of the pavement surface should be expected over time. Regular maintenance should be planned to seal cracks as they occur.

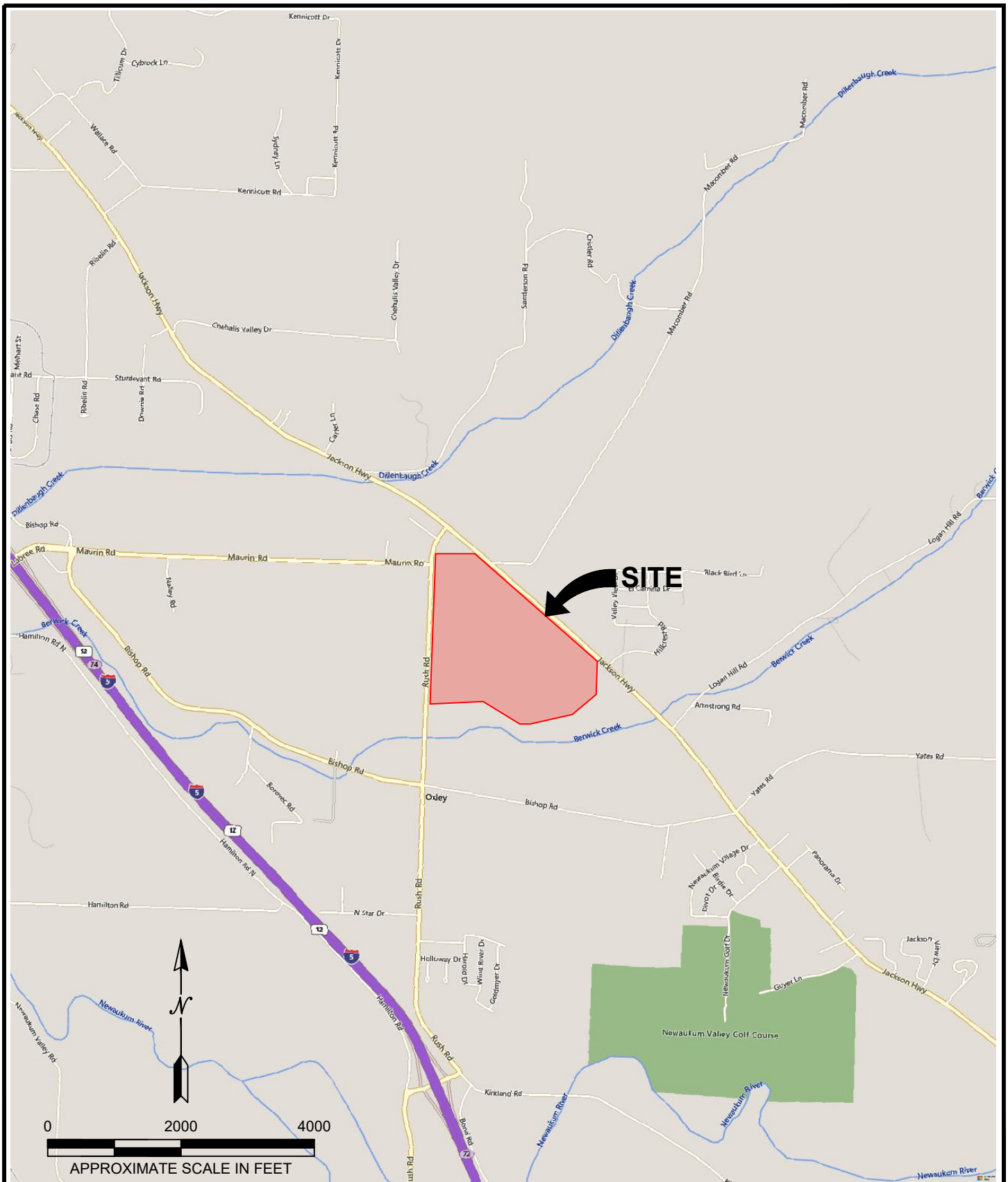
## **5.0 ADDITIONAL SERVICES**

Terra Associates, Inc. should review the final design and specifications in order to verify that earthwork and foundation recommendations have been properly interpreted and incorporated in project design. We should also provide geotechnical services during construction in order to observe compliance with our design concepts, specifications, and recommendations. This will also allow for design changes if subsurface conditions differ from those anticipated prior to the start of construction.

## **6.0 LIMITATIONS**

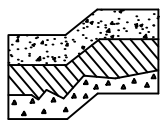
We prepared this report in accordance with generally accepted geotechnical engineering practices. This report is the copyrighted property of Terra Associates, Inc. and is intended for specific application to the Chehalis Landing project in Lewis County, Washington. This report is for the exclusive use of CRG and its authorized representatives. No other warranty, expressed or implied, is made.

The analyses and recommendations presented in this report are based upon data obtained from the subsurface explorations completed onsite. Variations in soil conditions can occur, the nature and extent of which may not become evident until construction. If variations appear evident, Terra Associates, Inc. should be requested to reevaluate the recommendations in this report prior to proceeding with construction.



REFERENCE: <https://www.bing.com/maps>

ACCESSED 4/5/2022



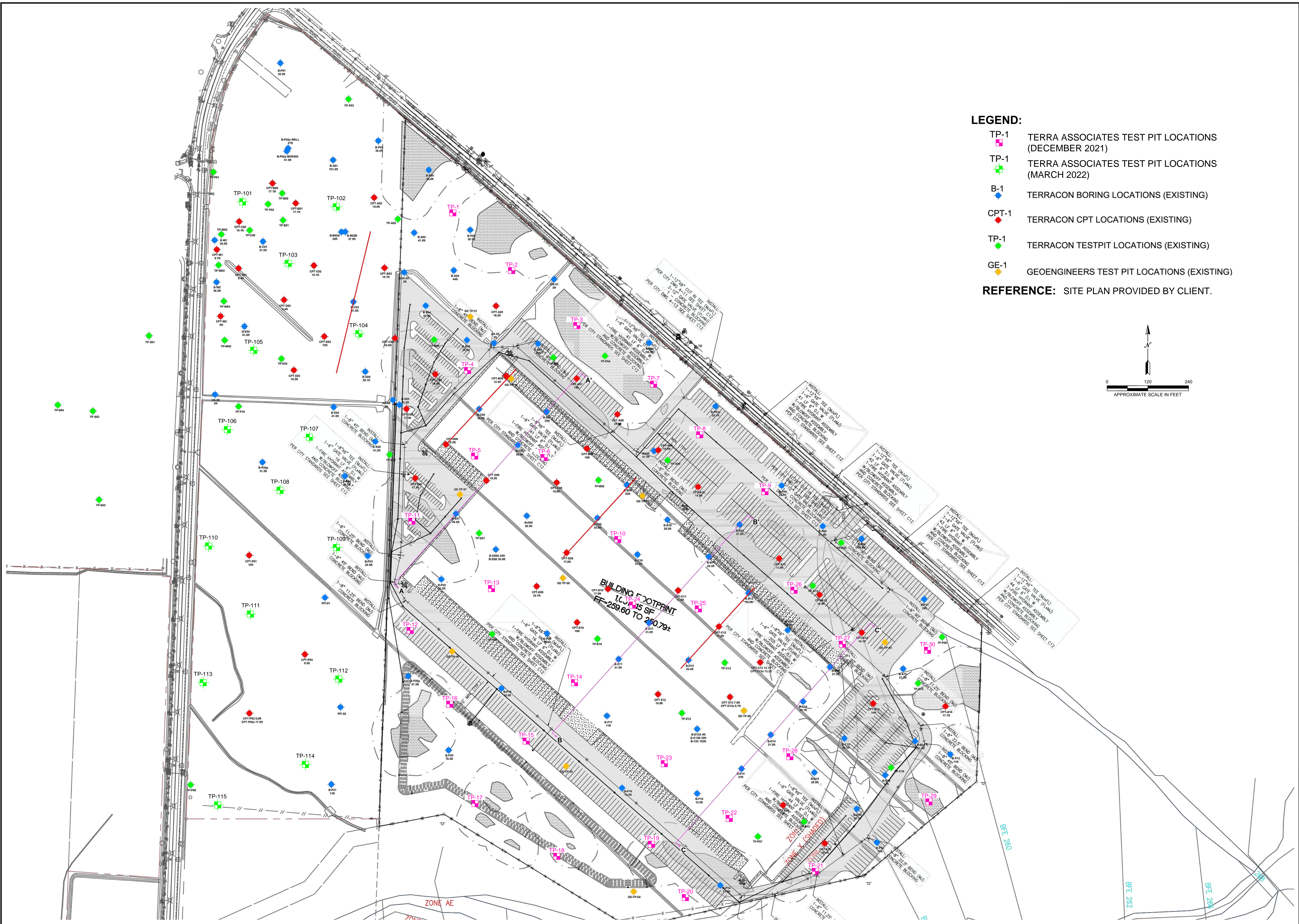
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VICINITY MAP  
 CHEHALIS LANDING  
 CHEHALIS, WASHINGTON

Proj.No.T-8643-1

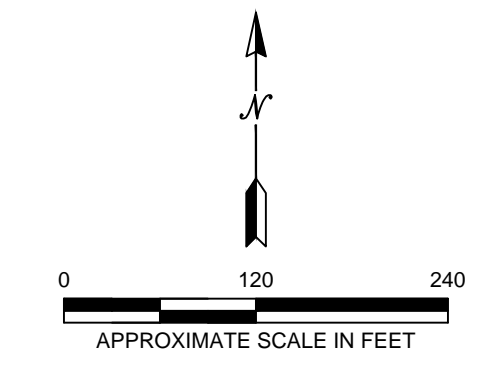
Date: MAY 2022

Figure 1

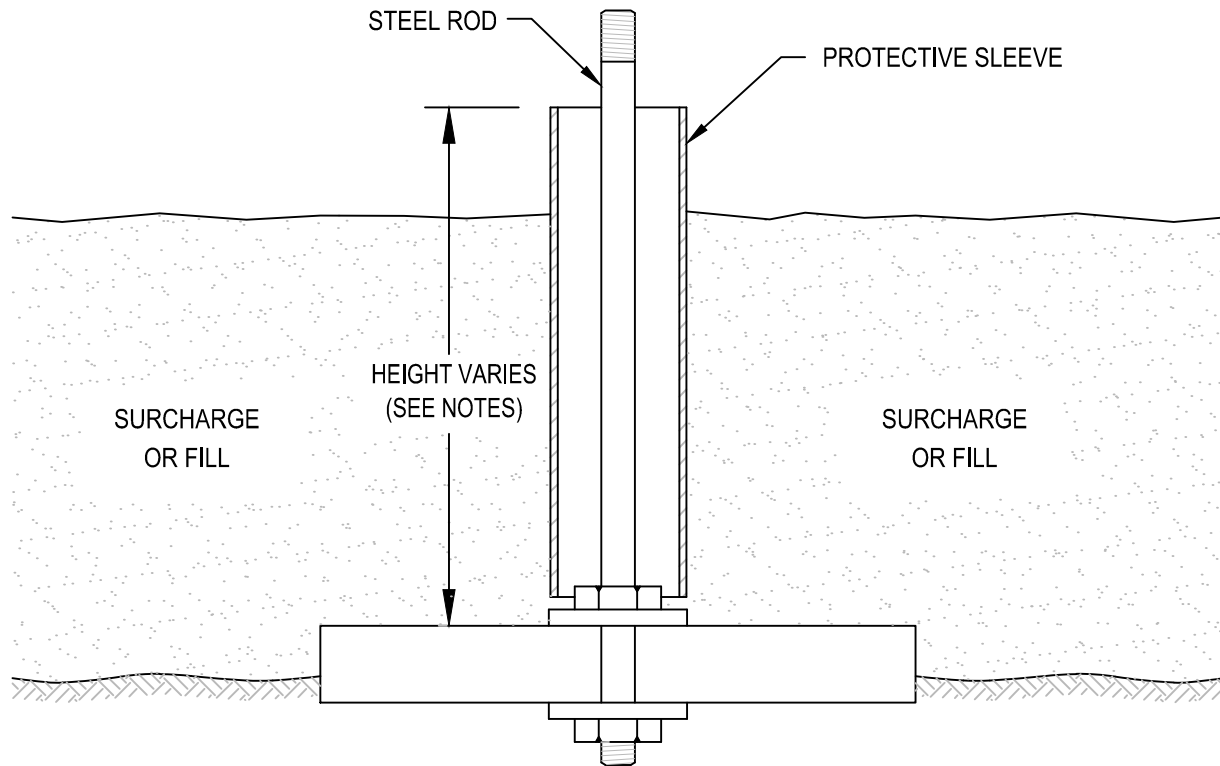


- LEGEND:**
- TP-1 (Pink square) TERRA ASSOCIATES TEST PIT LOCATIONS (DECEMBER 2021)
  - TP-1 (Green square) TERRA ASSOCIATES TEST PIT LOCATIONS (MARCH 2022)
  - B-1 (Blue diamond) TERRACON BORING LOCATIONS (EXISTING)
  - CPT-1 (Red diamond) TERRACON CPT LOCATIONS (EXISTING)
  - TP-1 (Green diamond) TERRACON TESTPIT LOCATIONS (EXISTING)
  - GE-1 (Yellow diamond) GEOENGINEERS TEST PIT LOCATIONS (EXISTING)

**REFERENCE:** SITE PLAN PROVIDED BY CLIENT.



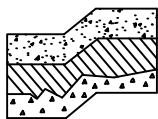
|   |  |
|---|--|
| <p><b>Terra Associates, Inc.</b><br/>         Consultants in Geotechnical Engineering, Geology<br/>         and<br/>         Environmental Earth Sciences<br/>         12220113th Avenue NE, Suite 130, Kirkland, Washington 98034. Phone (425) 821-7777 Fax (425) 821-4334</p> | <p><b>EXPLORATION LOCATIONS PLAN</b><br/> <b>CHEHALIS LANDING</b><br/> <b>CHEHALIS, WASHINGTON</b></p> |
| <p>Prepared by: SED<br/>         Designed by: CSD<br/>         Approved by: CSD<br/>         Date: MAY 2022</p>   |  |
| <p>T-8643-1<br/>         FIGURE 2</p>   |  |



NOT TO SCALE

**NOTES:**

1. BASE CONSISTS OF 3/4" THICK, 2'x2' PLYWOOD WITH CENTER DRILLED 5/8" DIAMETER HOLE.
2. BEDDING MATERIAL, IF REQUIRED, SHOULD CONSIST OF CLEAN COARSE SAND.
3. MARKER ROD IS 1/2" DIAMETER STEEL ROD THREADED AT BOTH ENDS.
4. MARKER ROD IS ATTACHED TO BASE BY NUT AND WASHER ON EACH SIDE OF BASE.
5. PROTECTIVE SLEEVE SURROUNDING MARKER ROD SHOULD CONSIST OF 2" DIAMETER PLASTIC TUBING. SLEEVE IS NOT ATTACHED TO ROD OR BASE.
6. ADDITIONAL SECTIONS OF STEEL ROD CAN BE CONNECTED WITH THREADED COUPLINGS.
7. ADDITIONAL SECTIONS OF PLASTIC PROTECTIVE SLEEVE CAN BE CONNECTED WITH PRESS-FIT PLASTIC COUPLINGS.
8. STEEL MARKER ROD SHOULD EXTEND AT LEAST 6" ABOVE TOP OF PLASTIC PROTECTIVE SLEEVE.
9. PLASTIC PROTECTIVE SLEEVE SHOULD EXTEND AT LEAST 1" ABOVE TOP OF FILL SURFACE.



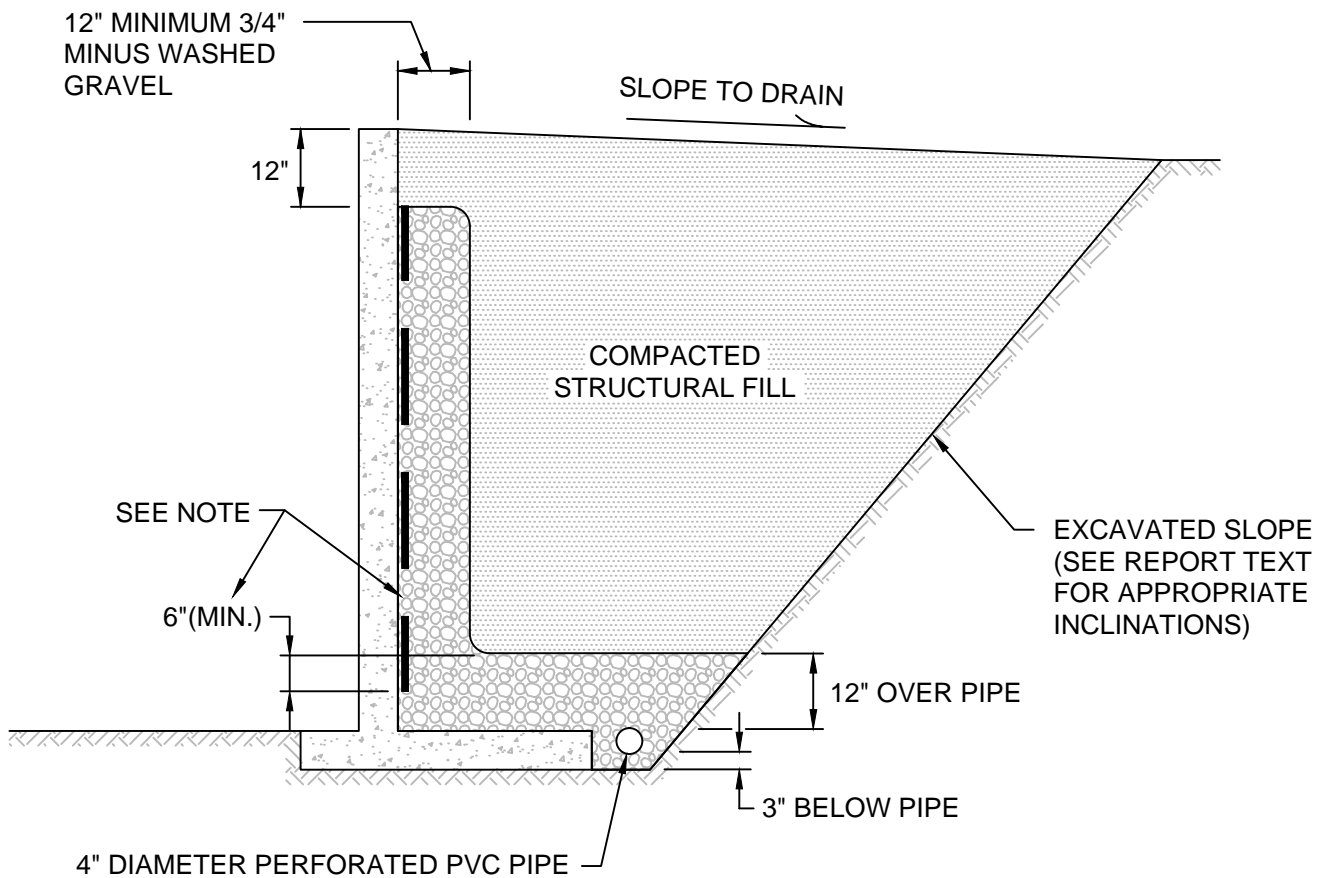
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SETTLEMENT MARKER DETAIL  
CHEHALIS LANDING  
CHEHALIS, WASHINGTON

Proj.No.T-8643-1

Date: MAY 2022

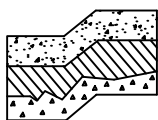
Figure 3



**NOT TO SCALE**

**NOTE:**

MIRADRAIN G100N PREFABRICATED DRAINAGE PANELS OR SIMILAR PRODUCT CAN BE SUBSTITUTED FOR THE 12-INCH WIDE GRAVEL DRAIN BEHIND WALL. DRAINAGE PANELS SHOULD EXTEND A MINIMUM OF SIX INCHES INTO 12-INCH THICK DRAINAGE GRAVEL LAYER OVER PERFORATED DRAIN PIPE.



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TYPICAL WALL DRAINAGE DETAIL  
 CHEHALIS LANDING  
 CHEHALIS, WASHINGTON

Proj.No.T-8643-1

Date: MAY 2022

Figure 4

**APPENDIX A**  
**FIELD EXPLORATION AND LABORATORY TESTING**  
**Chehalis Landing**  
**Lewis County, Washington**

On December 2, 2021, and December 3, 2021, we explored subsurface conditions at the site by excavating 30 test pits to depths ranging between about 8 and 10 feet using a mini track-mounted excavator. On March 14, 2022, we supplemented this information by excavating 15 test pits to depths ranging between about 8 and 10 feet using a mini track-mounted excavator. All of the subsurface explorations were approximately determined in the field by measuring, pacing, or sighting from existing surface features or using GPS coordinates obtained with handheld equipment. The approximate test pit locations are shown on Figure 2. The Test Pit Logs are presented on Figures A-2 through A-46.




A geotechnical engineer from our office conducted the field exploration. Our representative classified the soil conditions encountered, maintained a log of each test pit, obtained representative soil samples, and recorded water levels observed during excavation. All soil samples were visually classified in accordance with the Unified Soil Classification System (USCS) described on Figure A-1.

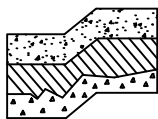
Representative soil samples obtained from the test pits were placed in closed containers and taken to our laboratory for further examination and testing. The moisture content of each sample was measured and is reported on the individual Test Pit Log. Grain size analyses and Atterberg limit tests were performed on select samples. The results of the grain size analyses are shown on Figures A-47 and A-49. The results of the Atterberg limit tests can be found on the individual Test Pit Logs.



| MAJOR DIVISIONS             |  |   | LETTER SYMBOL                      | TYPICAL DESCRIPTION   |  |
|-----------------------------|--|---|------------------------------------|---|--|
| <b>COARSE GRAINED SOILS</b> | More than 50% material larger than No. 200 sieve size      | <b>GRAVELS</b><br>More than 50% of coarse fraction is larger than No. 4 sieve | Clean Gravels (less than 5% fines) | GW  | Well-graded gravels, gravel-sand mixtures, little or no fines.   |
|                             |  |   |                                    | GP  | Poorly-graded gravels, gravel-sand mixtures, little or no fines. |
|                             |  |   | Gravels with fines                 | GM  | Silty gravels, gravel-sand-silt mixtures, non-plastic fines.     |
|                             |  |   |                                    | GC  | Clayey gravels, gravel-sand-clay mixtures, plastic fines.        |
|                             | More than 50% material smaller than No. 200 sieve size     | <b>SANDS</b><br>More than 50% of coarse fraction is smaller than No. 4 sieve  | Clean Sands (less than 5% fines)   | SW  | Well-graded sands, sands with gravel, little or no fines.        |
|                             |  |   |                                    | SP  | Poorly-graded sands, sands with gravel, little or no fines.      |
|                             |  |   | Sands with fines                   | SM  | Silty sands, sand-silt mixtures, non-plastic fines.              |
|                             |  |   |                                    | SC  | Clayey sands, sand-clay mixtures, plastic fines.                 |
| <b>FINE GRAINED SOILS</b>   | <b>SILTS AND CLAYS</b><br>Liquid Limit is less than 50%    |   | ML                                 | Inorganic silts, rock flour, clayey silts with slight plasticity. |  |
|                             |  |   | CL                                 | Inorganic clays of low to medium plasticity. (Lean clay)          |  |
|                             |  |   | OL                                 | Organic silts and organic clays of low plasticity.                |  |
|                             | <b>SILTS AND CLAYS</b><br>Liquid Limit is greater than 50% |   | MH                                 | Inorganic silts, elastic.   |  |
|                             |  |   | CH                                 | Inorganic clays of high plasticity. (Fat clay)                    |  |
|                             |  |   | OH                                 | Organic clays of high plasticity.                                 |  |
| <b>HIGHLY ORGANIC SOILS</b> |  |   | PT                                 | Peat.   |  |

### DEFINITION OF TERMS AND SYMBOLS

|                     |                    |  |   |  |
|---------------------|--------------------|--|---|--|
| <b>COHESIONLESS</b> | <u>Density</u>     | <u>Standard Penetration Resistance in Blows/Foot</u> |  | 2" OUTSIDE DIAMETER SPILT SPOON SAMPLER                  |
|                     | Very Loose         | 0-4  |  | 2.4" INSIDE DIAMETER RING SAMPLER OR SHELBY TUBE SAMPLER |
|                     | Loose              | 4-10   |  | WATER LEVEL (Date)                                       |
|                     | Medium Dense       | 10-30  | Tr  | TORVANE READINGS, tsf                                    |
|                     | Dense              | 30-50  | Pp  | PENETROMETER READING, tsf                                |
|                     | Very Dense         | >50  | DD  | DRY DENSITY, pounds per cubic foot                       |
| <b>COHESIVE</b>     | <u>Consistency</u> | <u>Standard Penetration Resistance in Blows/Foot</u> | LL  | LIQUID LIMIT, percent                                    |
|                     | Very Soft          | 0-2  | PI  | PLASTIC INDEX  |
|                     | Soft               | 2-4  | N   | STANDARD PENETRATION, blows per foot                     |
|                     | Medium Stiff       | 4-8  |   |  |
|                     | Stiff              | 8-16   |   |  |
|                     | Very Stiff         | 16-32  |   |  |
|                     | Hard               | >32  |   |  |



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**UNIFIED SOIL CLASSIFICATION SYSTEM**  
 CHEHALIS LANDING  
 CHEHALIS, WASHINGTON

Proj.No.T-8643-1

Date: MAY 2022

Figure A-1

# LOG OF TEST PIT NO. TP-1

FIGURE A-2

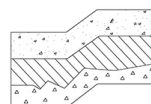
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 3.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)   |                                  |       |
| 1          |            |   | Loose                            |       |
| 2          |            | Gray clayey SILT, moist to wet, mottled, some sand. (ML)  |                                  | 33.8  |
| 3          |            | LL 30<br>PL 23<br>PI 7  | Medium Stiff                     |       |
| 4          |            | Intermixed red/brown clayey GRAVEL and gray silty SAND with gravel, fine to medium sand, fine to coarse gravel, moist. (GC/SM)          |                                  | 12.6  |
| 5          |            |   | Medium Dense                     |       |
| 6          |            | Red/brown SAND with silt and gravel, fine to medium sand, fine to coarse gravel, moist. (SP-SM)   |                                  |       |
| 7          |            |   | Dense                            |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Moderate groundwater seepage observed at approximately 3.5 feet.<br>No caving observed. |                                  | 11.7  |
| 9          |            |   |                                  |       |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-2

FIGURE A-3

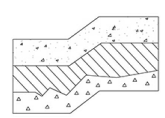
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 2.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            |  |                                  |       |
| 2          |            | Gray gravelly SILT with clay, fine gravel, moist to wet, some sand. (GM)   |                                  | 18.8  |
| 3          |            | Intermixed red/brown clayey GRAVEL and gray silty SAND with gravel, fine to medium sand, fine to coarse gravel, moist. (GC/SM)       | Medium Dense<br>to Dense         | 16.2  |
| 4          |            |  |                                  |       |
| 5          |            | Red/brown CLAY with gravel, fine gravel, moist. (CH)   |                                  |       |
| 6          |            |  | Medium Stiff                     |       |
| 7          |            | Red/brown clayey, gravelly, SAND, fine to coarse gravel, fine to medium sand, moist. (SC)  |                                  | 27.8  |
| 8          |            |  | Dense                            |       |
| 9          |            | Test Pit terminated at approximately 9 feet.<br>Heavy groundwater seepage observed at approximately 2.5 feet.<br>No caving observed. |                                  | 18.6  |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-3

FIGURE A-4

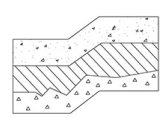
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 3.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)   | Loose                            |       |
| 1          |            | Gray clayey SILT, moist. (ML)   | Soft to Medium Stiff             | 38.3  |
| 2          |            |   |                                  |       |
| 3          |            |   |                                  |       |
| 4          |            | Red/brown clayey SAND with gravel, fine to medium sand, fine to coarse gravel, moist. (SC)  | Medium Dense                     | 20.6  |
| 5          |            | Intermixed red/brown clayey gravelly SAND and gray silty SAND with gravel, fine to medium sand, fine to coarse gravel, moist. (SC/SM) | Medium Dense to Dense            | 14.7  |
| 6          |            |   |                                  |       |
| 7          |            |   |                                  |       |
| 8          |            |   |                                  |       |
| 9          |            | Test Pit terminated at approximately 9 feet.<br>Light groundwater seepage observed at approximately 3.5 feet.<br>No caving observed.  |                                  | 14.8  |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-4

FIGURE A-5

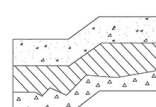
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 4 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No.              | Description   | Consistency/<br>Relative Density | W (%) |
|------------|-------------------------|---|----------------------------------|-------|
| 0          |                         | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)   | Loose                            |       |
| 1          |                         |   |                                  |       |
| 2          |                         | Gray clayey SILT, moist, some mottling. (ML)  | Soft to Medium Stiff             | 11    |
| 3          |                         | Red/brown gravelly SILT with clay and sand, fine to medium sand, fine to coarse gravel, moist, medium plasticity. (ML)                |                                  |       |
| 4          |                         |   | Medium Stiff                     | 36.2  |
| 5          | LL 48<br>PL 34<br>PI 14 |   |                                  |       |
| 6          |                         | Red/brown SAND with silt and gravel, fine to medium sand, fine to coarse gravel, moist, some mottled gray clay. (SP-SM)               | Medium Dense to Dense            |       |
| 7          |                         |   |                                  |       |
| 8          |                         |   |                                  | 12.9  |
| 9          |                         | Test Pit terminated at approximately 9 feet.<br>Moderate groundwater seepage observed at approximately 4 feet.<br>No caving observed. |                                  |       |
| 10         |                         |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-5

FIGURE A-6

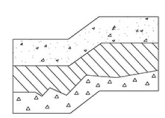
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 3 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            |  |                                  |       |
| 2          |            | Gray clayey SILT, moist, mottled, some sand. (ML)  | Soft to Medium Stiff             | 31.7  |
| 3          |            | Bedded layers of red/brown gravelly CLAY with sand and gray silty SAND with gravel, fine to medium sand, fine to coarse gravel, moist. (CH/SM) | Medium Dense                     | 20.3  |
| 4          |            |  |                                  |       |
| 5          |            |  |                                  |       |
| 6          |            | Intermixed red/brown clayey gravelly SAND and gray silty SAND, fine to medium sand, fine to coarse gravel, moist. (SC/SM)                      | Medium Dense to Dense            |       |
| 7          |            |  |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Light groundwater seepage observed at approximately 3 feet.<br>No caving observed.             |                                  | 25.4  |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-6

FIGURE A-7

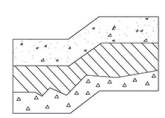
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 4 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            |  |                                  |       |
| 2          |            | Gray clayey SILT with sand, fine sand, moist, mottled. (ML)  | Soft to Medium Stiff             | 37.4  |
| 3          |            |  |                                  |       |
| 4          |            | Bedded layers of red/brown clayey SAND with gravel and gray silty SAND, fine to medium sand, fine to coarse gravel, moist. (SC/SM)       | Medium Dense to Dense            | 11.7  |
| 5          |            |  |                                  |       |
| 6          |            |  |                                  |       |
| 7          |            | Intermixed red/brown clayey gravelly SAND and gray sandy SILT, fine to medium sand, fine to coarse gravel, moist, some mottling. (SC/ML) | Medium Dense to Dense            | 19.4  |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Moderate groundwater seepage observed at approximately 4 feet.<br>No caving observed.    |                                  | 32.2  |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-7

FIGURE A-8

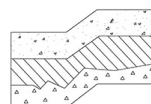
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 4 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            | Gray clayey SILT with sand, fine sand, moist, mottled. (ML)  |                                  | 36.8  |
| 2          |            |  | Soft to Medium Stiff             |       |
| 3          |            | *6-inch layer of gravel observed at 3 feet.  |                                  |       |
| 4          |            | Bedded layers of red/brown clayey SAND with gravel and gray sandy SILT with clay, fine to medium sand, fine to coarse gravel, moist to wet, some mottling. (SC/ML) |                                  | 24.2  |
| 5          |            |  | Medium Dense                     |       |
| 6          |            | *6-inch layer of gravel observed at 6 feet.  |                                  |       |
| 7          |            |  |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Heavy groundwater seepage observed at approximately 4 feet. Pooled about 2 inches in bottom of test pit.           |                                  | 19.9  |
| 9          |            | No caving observed.  |                                  |       |
| 10         |            |  |                                  |       |

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# LOG OF TEST PIT NO. TP-8

FIGURE A-9

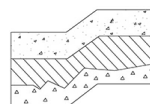
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 1.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)   | Loose                            |       |
| 1          |            |   |                                  |       |
| 2          |            | Gray clayey SILT with sand, fine sand, moist, some mottling. (ML)   | Soft to Medium Stiff             | 32.4  |
| 3          |            | *6-inch layer of gravel observed at 3 feet.   |                                  |       |
| 4          |            | Bedded layers of red/brown clayey SAND with gravel and gray clayey SILT, fine to medium sand, fine to coarse gravel, moist, some mottling. (SC/ML)                                |                                  | 27.6  |
| 5          |            |   | Medium Dense to Dense            |       |
| 6          |            | *6-inch layer of gravel observed at 6 feet.   |                                  | 9.4   |
| 7          |            |   |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Heavy groundwater seepage observed at approximately 1.5 feet. Pooled about 2 inches in bottom of test pit.<br>No caving observed. |                                  | 23.3  |
| 9          |            |   |                                  |       |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-9

FIGURE A-10

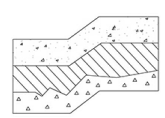
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 1.5 feet      **DEPTH TO CAVING:** 1.5 feet

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            | 30    |
| 1          |            |  |                                  |       |
| 2          |            | Gray sandy SILT with clay, fine sand, wet, some black coal bits. (ML)  | Soft                             | 19.4  |
| 3          |            |  |                                  |       |
| 4          |            | Red/brown sandy SILT, fine sand, moist, some gray clay intermixed, trace gravel. (ML)  |                                  |       |
| 5          |            |  | Medium Stiff                     |       |
| 6          |            |  |                                  | 18.3  |
| 7          |            |  |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Light groundwater seepage observed at approximately 1.5 feet.<br>Slight caving observed from about 1.5 feet to 3 feet. |                                  | 19.8  |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

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# LOG OF TEST PIT NO. TP-10

FIGURE A-11

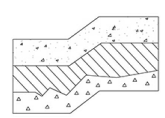
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 4 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)   | Loose                            |       |
| 1          |            | Gray clayey SILT with sand, fine sand, moist, some mottling. (ML)   |                                  |       |
| 2          |            |   | Medium Stiff                     | 29.2  |
| 3          |            | Bedded layers of red/brown clayey SAND with gravel and gray silty SAND, fine to medium sand, fine to coarse gravel, moist, some mottling. (SC/SM) |                                  |       |
| 4          |            |   |                                  |       |
| 5          |            | *6-inch layer of gravel observed at 5 feet.   |                                  |       |
| 6          |            |   | Medium Dense<br>to Dense         | 29.4  |
| 7          |            | *6-inch layer of gravel observed at 7 feet.   |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Very light groundwater seepage observed at approximately 4 feet.<br>No caving observed.           |                                  | 22.8  |
| 9          |            |   |                                  |       |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-11

FIGURE A-12

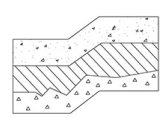
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 2.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            |  |                                  |       |
| 2          |            | Gray sandy SILT with clay, fine sand, moist, some to trace mottling. (ML)  |                                  | 25    |
| 3          |            |  | Medium Stiff                     |       |
| 4          |            |  |                                  |       |
| 5          |            |  |                                  |       |
| 6          |            | Red/brown clayey SAND with gravel, fine to medium sand, fine to coarse gravel, moist. (SC)   | Medium Dense to Dense            | 19.1  |
| 7          |            |  |                                  |       |
| 8          |            | Gray SILT with clay, moist, trace mottling. (ML)   | Medium Stiff to Stiff            |       |
| 8          |            | LL 30<br>PL 25<br>PI 5   |                                  | 27.5  |
| 9          |            | Test Pit terminated at approximately 8 feet.<br>Light groundwater seepage observed at approximately 2.5 feet.<br>No caving observed. |                                  |       |
| 10         |            |  |                                  |       |

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# LOG OF TEST PIT NO. TP-12

FIGURE A-13

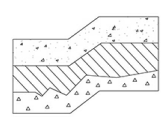
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 4 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            | Gray sandy SILT with clay, fine sand, moist, some mottling. (ML)   |                                  |       |
| 2          |            |  | Soft to Medium Stiff             | 23.7  |
| 3          |            |  |                                  |       |
| 4          |            |  |                                  |       |
| 5          |            |  | Medium Stiff                     |       |
| 6          |            |  |                                  | 21.3  |
| 7          |            | Red/brown clayey SAND with gravel, fine to medium sand, fine to coarse gravel, moist. (SC)   | Dense                            |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Light groundwater seepage observed at approximately 4 feet.<br>No caving observed. |                                  | 37.7  |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-13

FIGURE A-14

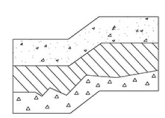
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 2 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            |  |                                  |       |
| 2          |            | Gray sandy SILT with clay, fine sand, moist, mottled. (ML)   | Soft to Medium Stiff             | 21.9  |
| 3          |            |  |                                  |       |
| 4          |            | Red/brown clayey SAND, fine to medium sand, moist. (SC)  |                                  | 12.5  |
| 5          |            |  |                                  |       |
| 6          |            | Intermixed red/brown clayey gravelly SAND and gray silty SAND, fine to medium sand, fine to coarse gravel, moist. (SC/SM)          | Medium Dense to Dense            |       |
| 7          |            |  |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Heavy groundwater seepage observed at approximately 2 feet.<br>No caving observed. |                                  | 18.4  |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-14

FIGURE A-15

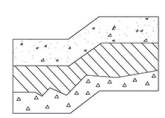
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 3 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            | 33.7  |
| 1          |            |  |                                  |       |
| 2          |            | Gray clayey SILT with sand, fine sand, wet, mottled. (ML)  | Soft                             | 10.4  |
| 3          |            | Bedded layers of red/brown clayey gravelly SAND and gray silty SAND, fine to medium sand, fine to coarse gravel, moist. (SC/SM)  | Medium Dense<br>to Dense         |       |
| 4          |            |  |                                  |       |
| 5          |            |  | 26.9                             |       |
| 6          |            | Gray silty gravelly SAND with clay, coarse gravel, wet, mottled, some sand. (SM)   |                                  |       |
| 7          |            |  | 26.9                             |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Heavy groundwater seepage observed at approximately 3 feet. Pooled bottom 3 inches of test pit.<br>No caving observed. |                                  |       |
| 9          |            |  | 26.9                             |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-15

FIGURE A-16

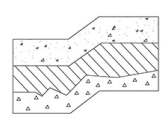
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 3.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            |  |                                  |       |
| 2          |            | Gray clayey SILT with sand, fine sand, moist to wet, mottled. (ML)   | Soft                             |       |
| 3          |            |  |                                  | 33.6  |
| 4          |            | Gray silty SAND with clay, fine sand, moist, mottled. (SM)   |                                  |       |
| 5          |            |  | Medium Dense<br>to Dense         | 25.2  |
| 6          |            | Intermixed red/brown clayey gravelly SAND and gray silty SAND, fine to medium sand, fine to coarse gravel, moist. (SC/SM)  |                                  |       |
| 7          |            |  |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Heavy groundwater seepage observed at approximately 3.5 feet. Pooled bottom 3 inches of test pit.<br>No caving observed. |                                  | 17.5  |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-16

FIGURE A-17

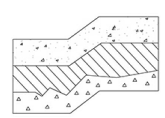
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 3 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            | Gray clayey SILT with sand, fine sand, moist, mottled. (ML)  |                                  |       |
| 2          |            |  | Medium Stiff                     |       |
| 3          |            | Gray silty SAND with clay, fine sand, moist, mottled. (SM)   |                                  | 32.5  |
| 4          |            |  |                                  |       |
| 5          |            |  | Medium Dense<br>to Dense         | 21.3  |
| 6          |            | Intermixed red/brown clayey gravelly SAND and gray silty SAND, fine to medium sand, fine to coarse gravel, moist. (SC/SM)          |                                  |       |
| 7          |            |  |                                  | 18.6  |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Light groundwater seepage observed at approximately 3 feet.<br>No caving observed. |                                  |       |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-17

FIGURE A-18

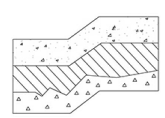
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 3, 2021      **DEPTH TO GROUNDWATER:** 3.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)   | Loose                            |       |
| 1          |            | Gray clayey SILT with sand, fine sand, moist. (ML)  |                                  |       |
| 2          |            |   | Soft                             |       |
| 3          |            |   |                                  |       |
| 4          |            | Gray silty SAND with clay, fine sand, moist, mottled. (SM)  | Dense                            | 22.1  |
| 5          |            |   |                                  |       |
| 6          |            | Red/brown silty SAND with clay and gravel, fine to medium sand, fine to coarse gravel, moist, scattered cobbles. (SM)                   |                                  | 16.3  |
| 7          |            |   | Medium Dense<br>to Dense         | 14.9  |
| 8          |            | Red/brown clayey SAND with gravel, fine to coarse sand, fine gravel, moist, some gray mottled sandy clay, scattered cobbles. (SC)       |                                  |       |
| 9          |            | Test Pit terminated at approximately 9 feet.<br>Moderate groundwater seepage observed at approximately 3.5 feet.<br>No caving observed. |                                  | 22.7  |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-18

FIGURE A-19

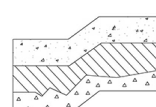
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 3, 2021      **DEPTH TO GROUNDWATER:** 3.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)   | Loose                            |       |
| 1          |            | Gray clayey SILT with sand, fine sand, moist, some mottling. (ML)   |                                  |       |
| 2          |            |   | Soft                             | 29.1  |
| 3          |            |   |                                  |       |
| 4          |            | Gray silty SAND with clay and gravel, fine sand, fine gravel, moist, some mottling. (SM)  |                                  | 27    |
| 5          |            |   | Medium Dense                     | 18.1  |
| 6          |            |   |                                  |       |
| 7          |            | Red/brown clayey SAND with gravel, fine to medium sand, fine to coarse gravel, moist scattered cobbles. (SC)                              |                                  |       |
| 8          |            |   | Medium Dense<br>to Dense         |       |
| 9          |            | Test Pit terminated at approximately 8.5 feet.<br>Moderate groundwater seepage observed at approximately 3.5 feet.<br>No caving observed. |                                  | 26.7  |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-19

FIGURE A-20

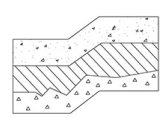
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 3, 2021      **DEPTH TO GROUNDWATER:** 3.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)   | Loose                            |       |
| 1          |            | Gray clayey SILT with sand, fine sand, moist. (ML)  |                                  |       |
| 2          |            |   | Soft                             |       |
| 3          |            |   |                                  | 33.9  |
| 4          |            | Gray silty SAND with clay and gravel, fine to medium sand, fine to coarse gravel, moist. (SM)   |                                  |       |
| 5          |            |   |                                  | 24.2  |
| 6          |            | Red/brown clayey SAND with gravel, fine to medium sand, fine to coarse gravel, moist. (SC)  | Medium Dense<br>to Dense         |       |
| 7          |            |   |                                  | 18.5  |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Moderate groundwater seepage observed at approximately 3.5 feet.<br>No caving observed. |                                  |       |
| 9          |            |   |                                  |       |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-20

FIGURE A-21

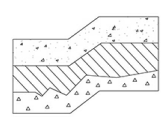
**PROJECT NAME:** Chehalis Landing **PROJ. NO:** T-8643-1 **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington **SURFACE CONDITIONS:** Thick Grass **APPROX. ELEV:** N/A

**DATE LOGGED:** December 3, 2021 **DEPTH TO GROUNDWATER:** 3.5 feet **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            | Gray sandy SILT with clay, fine sand, moist, mottled. (ML)   |                                  |       |
| 2          |            |  | Medium Stiff                     |       |
| 3          |            |  |                                  | 25.1  |
| 4          |            | Gray silty SAND with clay, fine sand, moist, mottled. (SM)   |                                  |       |
| 5          |            |  | Medium Dense                     | 25.8  |
| 6          |            |  |                                  | 23    |
| 7          |            | Gray sandy SILT, fine to medium sand, moist, mottled, some gravel. (ML)<br><br>LL 34<br>PL 25<br>PI 9                                | Medium Stiff                     | 22.9  |
| 8          |            | Red/brown clayey SAND with gravel, fine to medium sand, fine to coarse gravel, moist. (SC)   | Dense                            | 24.1  |
| 9          |            | Test Pit terminated at approximately 9 feet.<br>Light groundwater seepage observed at approximately 3.5 feet.<br>No caving observed. |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-21

FIGURE A-22

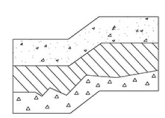
**PROJECT NAME:** Chehalis Landing **PROJ. NO:** T-8643-1 **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington **SURFACE CONDITIONS:** Thick Grass **APPROX. ELEV:** N/A

**DATE LOGGED:** December 3, 2021 **DEPTH TO GROUNDWATER:** 3 feet **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | (6 inches organic TOPSOIL)<br>Dark brown sandy SILT, moist, scattered roots. (ML)   | Loose                            |       |
| 1          |            |   |                                  |       |
| 2          |            | Dark gray CLAY with sand, fine sand, moist, some mottling and organics. (CH)  | Soft to Medium stiff             | 46.8  |
| 3          |            | Gray silty gravelly SAND with clay, fine to coarse sand, fine to coarse gravel, wet to saturated, scattered cobbles, some mottled gray clay. (SM)                           | Medium Dense                     | 30    |
| 4          |            |   |                                  |       |
| 5          |            |   |                                  | 25.9  |
| 6          |            |   | Medium Dense to Dense            |       |
| 7          |            | Gray/brown sandy gravelly SAND with silt, fine to coarse gravel, fine to coarse sand, saturated, cobbles. (SP-SM)   |                                  | 16.3  |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Very heavy groundwater seepage observed at approximately 3 feet. Pooled bottom 2.5 feet of test pit.<br>No caving observed. |                                  | 12.4  |
| 9          |            |   |                                  |       |
| 10         |            |   |                                  |       |

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# LOG OF TEST PIT NO. TP-22

FIGURE A-23

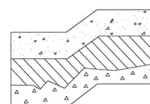
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 3, 2021      **DEPTH TO GROUNDWATER:** 3.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            | Gray clayey SILT with sand, fine sand, moist. (ML)   |                                  |       |
| 2          |            |  | Soft                             |       |
| 3          |            | *increasing gravel content   |                                  |       |
| 4          |            |  | Medium Stiff to Stiff            | 32.3  |
| 5          |            | Gray silty SAND with clay and gravel, fine to medium sand, fine to coarse gravel, saturated. (SM)  |                                  |       |
| 6          |            |  | Medium Dense to Dense            | 24.4  |
| 7          |            | Red/brown SAND with gravel and silt, fine to coarse gravel, fine to coarse sand, saturated, cobbles, some silt. (SP-SM)  |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Heavy groundwater seepage observed at approximately 3.5 feet. Pooled bottom 3 inches of test pit.<br>No caving observed. |                                  | 12.3  |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-23

FIGURE A-24

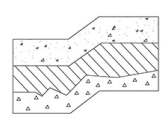
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 3, 2021      **DEPTH TO GROUNDWATER:** 3.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  |                                  |       |
| 1          |            |  | Loose                            |       |
| 2          |            | Gray clayey SILT with sand, fine sand, moist, some mottling. (ML)  |                                  |       |
| 3          |            |  | Soft                             |       |
| 4          |            | Gray silty SAND with clay and gravel, fine to medium sand, fine to coarse gravel, moist. (SM)  |                                  | 32.4  |
| 5          |            |  |                                  |       |
| 6          |            | Bedded layers of red/brown clayey gravelly SAND and gray silty SAND, fine to medium sand, fine to coarse gravel, wet, cobbles. (SC/SM) |                                  | 11.0  |
| 7          |            |  | Medium Dense<br>to Dense         | 23.8  |
| 8          |            |  |                                  | 28.9  |
| 9          |            | Test Pit terminated at approximately 9 feet.<br>Heavy groundwater seepage observed at approximately 3.5 feet.<br>No caving observed.   |                                  | 19.4  |
| 10         |            |  |                                  |       |

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# LOG OF TEST PIT NO. TP-24

FIGURE A-25

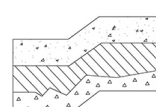
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021      **DEPTH TO GROUNDWATER:** 3.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            | Gray sandy SILT with clay, fine sand, moist. (ML)  | Medium Stiff                     |       |
| 2          |            | Intermixed red/brown clayey gravelly SAND and gray silty SAND, fine to medium sand, fine to coarse gravel, moist. (SC/SM)            | Medium Dense to Dense            | 21    |
| 3          |            |  |                                  |       |
| 4          |            |  |                                  | 11.9  |
| 5          |            | Gray clayey SILT with sand, fine sand, moist, some mottling. (ML)  | Soft                             |       |
| 6          |            | Red/brown clayey SAND with gravel, fine to medium sand, fine gravel, moist. (SC)   | Medium Dense to Dense            | 27.2  |
| 7          |            |  |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Light groundwater seepage observed at approximately 3.5 feet.<br>No caving observed. |                                  | 21.2  |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-25

FIGURE A-26

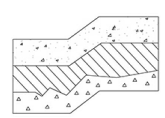
**PROJECT NAME:** Chehalis Landing **PROJ. NO:** T-8643-1 **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington **SURFACE CONDITIONS:** Thick Grass **APPROX. ELEV:** N/A

**DATE LOGGED:** December 2, 2021 **DEPTH TO GROUNDWATER:** 3.5 feet **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            | Gray clayey SILT with sand, fine sand, wet, some mottling. (ML)  |                                  |       |
| 2          |            |  | Soft                             |       |
| 3          |            | Red/brown gravelly SAND with silt, fine to coarse sand, fine gravel, wet, cobbles, some gray clayey SILT. (SP-SM)  |                                  | 11.7  |
| 4          |            |  | Medium Dense                     | 24.6  |
| 5          |            | Gray clayey SILT with sand, fine sand, wet, mottled. (ML)  |                                  |       |
| 6          |            |  | Medium Stiff                     |       |
| 7          |            |  |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Heavy groundwater seepage observed at approximately 3.5 feet. Pooled bottom 3 inches of test pit.<br>No caving observed. |                                  | 27.9  |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-27

FIGURE A-28

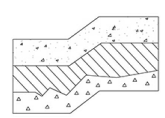
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 3, 2021      **DEPTH TO GROUNDWATER:** 3.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            | Gray clayey SILT with sand, fine sand, moist to wet, some mottling. (ML)   |                                  |       |
| 2          |            |  | Soft                             |       |
| 3          |            |  |                                  | 36.4  |
| 4          |            | Gray silty SAND/sandy SILT with clay, fine sand, moist, mottled, some gravel and black staining. (SM/ML)                             |                                  |       |
| 5          |            |  | Stiff to Very Stiff              |       |
| 6          |            |  |                                  | 22.7  |
| 7          |            | Red/brown clayey SAND with gravel, fine to medium sand, fine to coarse gravel, moist. (SC)   | Medium Dense to Dense            |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Light groundwater seepage observed at approximately 3.5 feet.<br>No caving observed. |                                  | 19    |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-28

FIGURE A-29

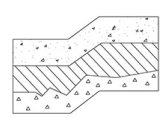
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 3, 2021      **DEPTH TO GROUNDWATER:** 4 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)  | Loose                            |       |
| 1          |            |  |                                  |       |
| 2          |            | Gray clayey SILT with sand and gravel, fine sand, fine gravel, moist to wet, mottled. (ML)   | Soft to Medium Stiff             | 32.2  |
| 3          |            |  |                                  |       |
| 4          |            | Intermixed gray/brown silty SAND with gravel and red/brown clayey gravelly SAND, fine to medium sand, fine to coarse gravel, wet, cobbles. (SM/SC) | Medium Dense to Dense            | 29.6  |
| 5          |            |  |                                  |       |
| 6          |            |  |                                  |       |
| 7          |            |  |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Moderate groundwater seepage observed at approximately 4 feet.<br>No caving observed.              |                                  | 24.5  |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-29

FIGURE A-30

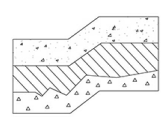
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 3, 2021      **DEPTH TO GROUNDWATER:** 3.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)   |                                  |       |
| 1          |            |   | Loose                            |       |
| 2          |            | Gray clayey SILT with sand, fine sand, moist, mottled. (ML)   |                                  | 37.3  |
| 3          |            |   | Soft                             |       |
| 4          |            | Red/brown gravelly SAND with silt, fine to medium sand, fine to coarse gravel, moist, some mottled gray clay. (SP-SM)                   |                                  | 16.8  |
| 5          |            |   |                                  |       |
| 6          |            |   | Medium Dense<br>to Dense         |       |
| 7          |            | *6-inch gravel layer at 7 feet.   |                                  | 14.7  |
| 8          |            |   |                                  |       |
| 9          |            | Test Pit terminated at approximately 9 feet.<br>Moderate groundwater seepage observed at approximately 3.5 feet.<br>No caving observed. |                                  | 17.3  |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-30

FIGURE A-31

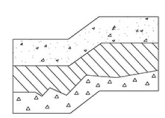
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** December 3, 2021      **DEPTH TO GROUNDWATER:** 4 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with sand, moist, scattered roots and organic inclusions. (ML/OL)   | Loose                            |       |
| 1          |            |   |                                  |       |
| 2          |            | Gray clayey SILT with sand, fine sand, moist, mottled. (ML)   | Medium Stiff                     | 27.7  |
| 3          |            |   |                                  |       |
| 4          |            |   |                                  |       |
| 5          |            |   | Very Stiff                       | 24.3  |
| 6          |            |   |                                  |       |
| 7          |            | Intermixed red/brown clayey gravelly SAND and gray silty SAND, fine to medium sand, fine to coarse gravel, moist, cobbles, some mottling. (SC/SM) | Dense                            | 12.8  |
| 8          |            |   |                                  |       |
| 9          |            |   |                                  |       |
| 10         |            | Test Pit terminated at approximately 10 feet.<br>Light groundwater seepage observed at approximately 4 feet.<br>No caving observed.               |                                  | 26.3  |
| 11         |            |   |                                  |       |
| 12         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-101

FIGURE A-32

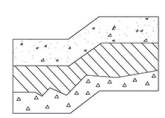
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022      **DEPTH TO GROUNDWATER:** 2 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL, Topsoil)                                       | Soft                             |       |
| 1          |            | Gray clayey SILT with sand, fine sand, wet to moist, faintly mottled. (ML)  |                                  |       |
| 2          |            |   |                                  |       |
| 3          |            |   | Medium Stiff                     | 24.0  |
| 4          |            |   |                                  |       |
| 5          |            | Red/orange SAND with silt and gravel, fine to medium sand, fine to coarse gravel, moist to wet. (SP-SM)                               |                                  | 18.5  |
| 6          |            |   | Medium Dense<br>to Dense         |       |
| 7          |            |   |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Moderate groundwater seepage observed at approximately 2 feet.<br>No caving observed. |                                  | 12.8  |
| 9          |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-102

FIGURE A-33

**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022      **DEPTH TO GROUNDWATER:** 4 feet      **DEPTH TO CAVING:** 4 to 6 feet

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL, Topsoil)  |                                  |       |
| 1          |            |  |                                  |       |
| 2          |            | Gray sandy SILT, fine to medium sand, moist, faintly mottled. (ML)   | Soft                             |       |
| 3          |            |  |                                  | 24.8  |
| 4          |            | Red/orange silty SAND, fine to medium sand, moist, some gravel, trace gray clay. (SM)  |                                  |       |
| 5          |            |  | Medium Dense                     | 20.6  |
| 6          |            | Intermixed red/brown and orange/gray silty SAND and SAND with silt and gravel, fine to coarse sand, fine to coarse gravel, moist, scattered cobbles, trace coal bits. (SM/SP-SM) |                                  |       |
| 7          |            |  | Medium Dense<br>to Dense         |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Light groundwater seepage observed at approximately 4 feet.<br>Light caving observed from 4 to 6 feet.                           |                                  | 11.9  |
| 9          |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-103

FIGURE A-34

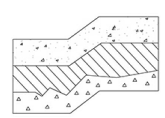
**PROJECT NAME:** Chehalis Landing **PROJ. NO:** T-8643-1 **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington **SURFACE CONDITIONS:** Thick Grass **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022 **DEPTH TO GROUNDWATER:** 2 feet **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL) (Topsoil)   |                                  |       |
| 1          |            | Gray sandy SILT, fine to medium sand, moist, mottled. (ML)   | Soft to Medium Stiff             |       |
| 2          |            | Intermixed red/brown and orange/gray silty SAND and SAND with silt and gravel, fine to coarse sand, fine to coarse gravel, moist, scattered cobbles, trace coal bits. (SM/SP-SM) |                                  | 22.6  |
| 3          |            |  |                                  |       |
| 4          |            |  |                                  | 18.3  |
| 5          |            |  | Medium Dense                     |       |
| 6          |            |  |                                  |       |
| 7          |            | Light Brown/gray silty SAND, fine to medium sand, moist, some coarse sand and gravel. (SM)   |                                  | 23.4  |
| 8          |            | Red/orange silty SAND with gravel, fine to medium sand, fine to coarse gravel, moist, scattered cobbles. (SM)  |                                  |       |
| 9          |            | Test Pit terminated at approximately 9 feet.<br>Light groundwater seepage observed at approximately 2 feet.<br>No caving observed.   |                                  | 16.9  |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-104

FIGURE A-35

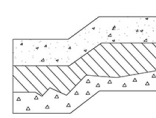
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022      **DEPTH TO GROUNDWATER:** 16 inches      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL, Topsoil)   |                                  |       |
| 1          |            | Gray SILT with sand, fine to medium sand, moist, faintly mottled. (ML)  | Soft                             | 33.4  |
| 2          |            |   |                                  |       |
| 3          |            | Red/orange silty SAND with gravel, fine to medium sand, fine to coarse gravel, moist, scattered cobbles, mottled. (SM)                            |                                  | 13.8  |
| 4          |            |   | Medium Dense                     |       |
| 5          |            | *Approximate 3-inch layer of heavily mottled soil observed at 5 feet and 6 feet.  |                                  |       |
| 6          |            | Red/orange sandy CLAY with silt, fine to medium sand, moist, some gravel, mottled, medium plastic. (CL/CH)  |                                  | 46.5  |
| 7          |            |   | Stiff to Very Stiff              |       |
| 8          |            |   |                                  |       |
| 9          |            | Test Pit terminated at approximately 9 feet.<br>Light to moderate groundwater seepage observed at approximately 16 inches.<br>No caving observed. |                                  |       |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-105

FIGURE A-36

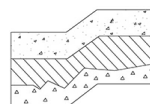
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022      **DEPTH TO GROUNDWATER:** 2 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL, Topsoil)   |                                  |       |
| 1          |            | Gray SILT with sand, fine to medium sand, wet, mottled. (ML)  |                                  |       |
| 2          |            | LL 35<br>PL 26<br>PI 9  | Soft                             | 36.7  |
| 3          |            |   |                                  |       |
| 4          |            | Intermixed red/orange sandy CLAY, silty SAND and clayey SAND with gravel and silt, fine to coarse sand, fine to coarse gravel, moist, scattered cobbles. (CL/GM/SC) | Medium Dense                     |       |
| 5          |            | *Heavy mottling and higher gravel content observed from 4 to 5 feet.  |                                  | 23.9  |
| 6          |            |   | Dense                            |       |
| 7          |            |   |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Heavy groundwater seepage observed at approximately 2 feet.<br>No caving observed.                                  |                                  | 37.9  |
| 9          |            |   |                                  |       |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-106

FIGURE A-37

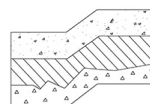
**PROJECT NAME:** Chehalis Landing **PROJ. NO:** T-8643-1 **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington **SURFACE CONDITIONS:** Thick Grass **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022 **DEPTH TO GROUNDWATER:** 2 feet **DEPTH TO CAVING:** 0-3 feet, 5.5-7 feet

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL) (Topsoil)  |                                  |       |
| 1          |            | Gray SILT with sand, fine to medium sand, wet, faintly mottled. (ML)  | Very Soft                        |       |
| 2          |            |   |                                  | 30.2  |
| 3          |            | Gray and red silty SAND with gravel, fine to coarse sand, fine to coarse gravel, moist, scattered cobbles, mottled. (SM)  |                                  |       |
| 4          |            |   | Medium Dense                     |       |
| 5          |            |   |                                  |       |
| 6          |            |   |                                  | 21.8  |
| 7          |            | Gray/blue gravelly silty SAND, fine to coarse sand, fine to coarse gravel, moist. (SM)  |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Light groundwater seepage observed at approximately 2 feet.<br>Moderate caving observed from 0 to 3 feet, light caving observed from 5.5 to 7 feet. |                                  | 20.6  |
| 9          |            |   |                                  |       |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-107

FIGURE A-38

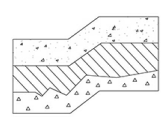
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022      **DEPTH TO GROUNDWATER:** 2.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL, Topsoil)   | Soft                             | 27.5  |
| 1          |            | Gray SILT with sand, fine to medium sand, wet, faintly mottled. (ML)  |                                  |       |
| 2          |            | Gray/brown silty SAND with gravel, fine to medium sand, fine to coarse gravel, moist. (SM)  | Medium Dense                     | 23.7  |
| 3          |            | Red/orange gravelly silty SAND, fine to medium sand, fine to coarse gravel, moist, some clay, scattered cobbles. (SM)                   |                                  |       |
| 4          |            |   |                                  |       |
| 5          |            |   |                                  |       |
| 6          |            |   |                                  |       |
| 7          |            |   |                                  | 16.1  |
| 8          |            |   |                                  |       |
| 9          |            | Test Pit terminated at approximately 9 feet.<br>Moderate groundwater seepage observed at approximately 2.5 feet.<br>No caving observed. |                                  | 19.2  |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-108

FIGURE A-39

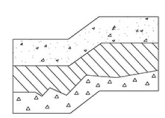
**PROJECT NAME:** Chehalis Landing **PROJ. NO:** T-8643-1 **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington **SURFACE CONDITIONS:** Thick Grass **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022 **DEPTH TO GROUNDWATER:** 2 feet **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL) (Topsoil)   |                                  |       |
| 1          |            | Gray SILT with sand, fine to medium sand, wet, faintly mottled. (ML)   | Soft                             |       |
| 2          |            |  |                                  | 36.8  |
| 3          |            | Red/orange silty SAND with gravel, fine to coarse sand, fine to coarse gravel, moist, scattered cobbles, mottled. (SM)                         |                                  |       |
| 4          |            |  | Medium Dense                     | 20.3  |
| 5          |            | Gray sandy SILT, fine to medium sand, moist, some gravel, mottled. (ML)  |                                  |       |
| 6          |            | LL 42<br>PL 26<br>PI 16  |                                  |       |
| 7          |            |  | Medium Stiff                     | 26.9  |
| 8          |            | Gray/blue sandy SILT with gravel and clay, fine to medium sand, fine to coarse gravel, moist. (ML)   |                                  |       |
| 9          |            | Test Pit terminated at approximately 8 feet.<br>Light to moderate groundwater seepage observed at approximately 2 feet.<br>No caving observed. |                                  | 28.1  |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-109

FIGURE A-40

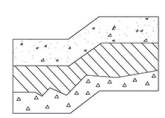
**PROJECT NAME:** Chehalis Landing **PROJ. NO:** T-8643-1 **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington **SURFACE CONDITIONS:** Thick Grass **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022 **DEPTH TO GROUNDWATER:** 2 feet **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL) (Topsoil)                                      | Soft                             |       |
| 1          |            | Gray SILT with sand, fine to medium sand, wet, faintly mottled. (ML)  |                                  |       |
| 2          |            | Red/orange silty SAND, fine to coarse sand, moist, some gravel, scattered cobbles, mottled, weakly cemented. (SM)                     | Soft to Medium Stiff             | 29.6  |
| 3          |            |   |                                  |       |
| 4          |            | Red/orange sandy CLAY with silt and gravel, fine to medium sand, fine to coarse gravel, moist, medium plastic. (CL/CH)                | Medium Dense to Dense            | 26.8  |
| 5          |            |   |                                  |       |
| 6          |            |   | Stiff                            | 19.6  |
| 7          |            |   |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Moderate groundwater seepage observed at approximately 2 feet.<br>No caving observed. |                                  | 51.3  |
| 9          |            |   |                                  |       |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-110

FIGURE A-41

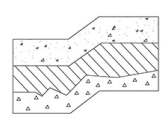
**PROJECT NAME:** Chehalis Landing **PROJ. NO:** T-8643-1 **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington **SURFACE CONDITIONS:** Thick Grass **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022 **DEPTH TO GROUNDWATER:** 16 inches **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL) (Topsoil)                                   |                                  |       |
| 1          |            | Gray SILT with sand, fine to medium sand, wet. (ML)  | Soft                             |       |
| 2          |            |  |                                  | 25.9  |
| 3          |            | Gray sandy SILT, fine to medium sand, moist, mottled, some clay, trace grading to some gravel. (ML)                                |                                  |       |
| 4          |            |  | Medium Stiff to Stiff            |       |
| 5          |            |  |                                  | 33.4  |
| 6          |            |  |                                  |       |
| 7          |            | Gray silty SAND with gravel, fine to medium sand, fine to coarse gravel, moist, cobbles. (SM)                                      | Medium Dense to Dense            |       |
| 8          |            | Test Pit terminated at approximately 8 feet. Moderate groundwater seepage observed at approximately 16 inches. No caving observed. |                                  | 17.9  |
| 9          |            |  |                                  |       |
| 10         |            |  |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-111

FIGURE A-42

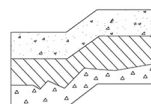
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022      **DEPTH TO GROUNDWATER:** 2 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL) (Topsoil)                                      |                                  |       |
| 1          |            | Gray SILT with sand, fine to medium sand, wet. (ML)   | Soft                             |       |
| 2          |            | Gray sandy SILT, fine to medium sand, moist, some clay, trace gravel, faintly mottled. (ML)   | Medium Stiff                     | 29.1  |
| 3          |            | Red/orange silty SAND with gravel, fine to coarse sand, fine to coarse gravel, moist, some clay. (SM)                                 | Medium Dense                     | 31.6  |
| 4          |            | Gray sandy CLAY with silt, fine to medium sand, moist. (CL)   | Medium Stiff                     |       |
| 5          |            | Test Pit terminated at approximately 8 feet.<br>Moderate groundwater seepage observed at approximately 2 feet.<br>No caving observed. |                                  | 36.1  |
| 6          |            |   |                                  |       |
| 7          |            |   |                                  |       |
| 8          |            |   |                                  |       |
| 9          |            |   |                                  |       |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-112

FIGURE A-43

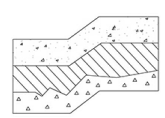
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022      **DEPTH TO GROUNDWATER:** 2 feet      **DEPTH TO CAVING:** 0 to 3 feet

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL) (Topsoil)  |                                  |       |
| 1          |            | Gray sandy SILT, fine to medium sand, moist to wet. (ML)  | Soft                             |       |
| 2          |            |   |                                  | 22.8  |
| 3          |            | Gray sandy SILT, fine to medium sand, moist, trace gravel, faintly mottled. (ML)  |                                  |       |
| 4          |            |   | Medium Stiff                     |       |
| 5          |            |   |                                  |       |
| 6          |            |   |                                  |       |
| 7          |            | Red/orange and gray silty SAND with gravel to SAND with silt and gravel, fine to coarse sand, fine to coarse gravel, moist, mottled. (SM/SP-SM)           | Medium Dense<br>to Dense         |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Heavy groundwater seepage observed at approximately 2 feet.<br>Moderate caving observed from 0 to 3 feet. |                                  | 15.2  |
| 9          |            |   |                                  |       |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-113

FIGURE A-44

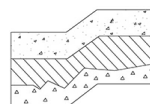
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022      **DEPTH TO GROUNDWATER:** 2 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description  | Consistency/<br>Relative Density | W (%) |
|------------|------------|--|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL) (Topsoil)                                   | Soft                             | 24.1  |
| 1          |            | Gray SILT with sand, fine to medium sand, wet. (ML)  |                                  |       |
| 2          |            | Gray sandy SILT, fine to medium sand, moist, trace gravel, faintly mottled. (ML)   | Medium Stiff                     |       |
| 3          |            |  |                                  |       |
| 4          |            |  |                                  |       |
| 5          |            | Red/orange and gray silty SAND with gravel, fine to medium sand, fine to coarse gravel, moist, some clay, scattered cobbles. (SM)  | Medium Dense                     | 21.1  |
| 6          |            |  |                                  |       |
| 7          |            |  |                                  |       |
| 8          |            |  | Medium Dense<br>to Dense         |       |
| 9          |            |  |                                  | 18.9  |
| 10         |            | Test Pit terminated at approximately 9 feet.<br>Light groundwater seepage observed at approximately 2 feet.<br>No caving observed. |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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# LOG OF TEST PIT NO. TP-114

FIGURE A-45

**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022      **DEPTH TO GROUNDWATER:** 2.5 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL) (Topsoil)  |                                  |       |
| 1          |            | Gray SILT with sand, fine to medium sand, wet. (ML)   | Soft                             |       |
| 2          |            |   |                                  | 25.8  |
| 3          |            | Gray sandy SILT, fine to medium sand, moist, trace gravel, mottled. (ML)  |                                  |       |
| 4          |            |   | Medium Stiff                     |       |
| 5          |            |   |                                  | 34.0  |
| 6          |            | Red/orange and gray silty SAND with gravel, fine to medium sand, fine to coarse gravel, moist, some clay, mottled. (SM)                 |                                  |       |
| 7          |            |   | Medium Dense<br>to Dense         |       |
| 8          |            |   |                                  | 24.1  |
| 9          |            | Test Pit terminated at approximately 8 feet.<br>Moderate groundwater seepage observed at approximately 2.5 feet.<br>No caving observed. |                                  |       |
| 10         |            |   |                                  |       |

NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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Geology and  
Environmental Earth Sciences

# LOG OF TEST PIT NO. TP-115

FIGURE A-46

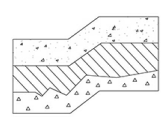
**PROJECT NAME:** Chehalis Landing      **PROJ. NO:** T-8643-1      **LOGGED BY:** SLK

**LOCATION:** Chehalis, Washington      **SURFACE CONDITIONS:** Thick Grass      **APPROX. ELEV:** N/A

**DATE LOGGED:** March 14, 2022      **DEPTH TO GROUNDWATER:** 2 feet      **DEPTH TO CAVING:** N/A

| Depth (ft) | Sample No. | Description   | Consistency/<br>Relative Density | W (%) |
|------------|------------|---|----------------------------------|-------|
| 0          |            | Dark brown SILT with some sand, moist, scattered roots and organic inclusions. (ML/OL) (Topsoil)  | Soft                             |       |
| 1          |            | Gray SILT with sand, fine to medium sand, wet. (ML)   |                                  |       |
| 2          |            | Gray sandy SILT, fine to medium sand, moist, some gravel, mottled. (ML)   | Medium Dense/Stiff               | 29.6  |
| 3          |            |   |                                  |       |
| 4          |            |   |                                  |       |
| 5          |            | Intermixed gray gravelly SILT with sand and silty gravelly, SAND, fine to medium sand, fine to coarse gravel, moist, heavily mottled. (ML/GM) | Medium Dense                     | 25.2  |
| 6          |            |   |                                  |       |
| 7          |            |   |                                  |       |
| 8          |            | Test Pit terminated at approximately 8 feet.<br>Light groundwater seepage observed at approximately 2 feet.<br>No caving observed.            |                                  | 23.2  |
| 9          |            |   |                                  |       |
| 10         |            |   |                                  |       |

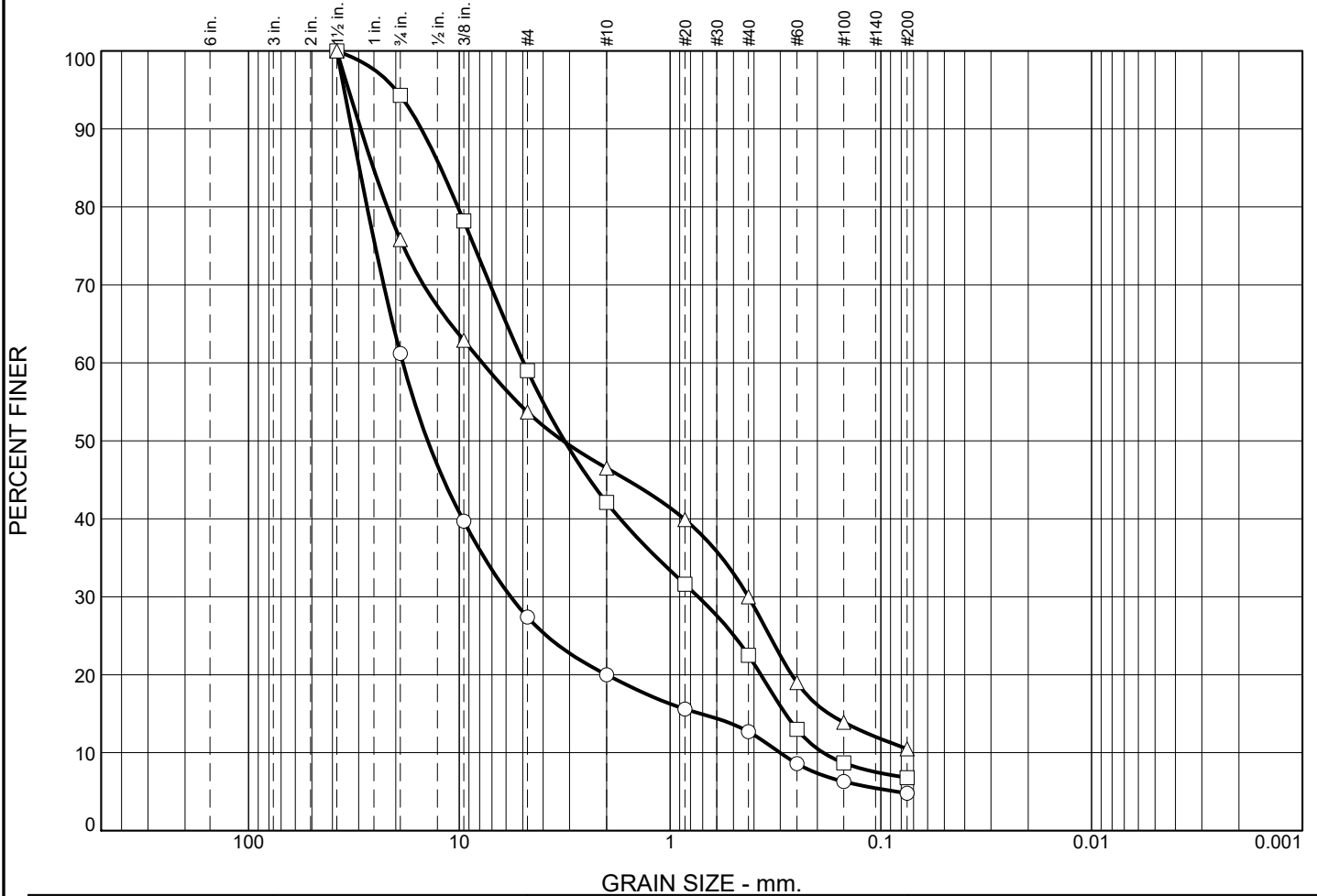
NOTE: This subsurface information pertains only to this test pit location and should not be interpreted as being indicative of other locations at the site.



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 Consultants in Geotechnical Engineering  
 Geology and  
 Environmental Earth Sciences



# Particle Size Distribution Report



|   | % +3" | % Gravel |      | % Sand |        |      | % Fines |      |
|---|-------|----------|------|--------|--------|------|---------|------|
|   |       | Coarse   | Fine | Coarse | Medium | Fine | Silt    | Clay |
| ○ | 0.0   | 38.8     | 33.8 | 7.4    | 7.3    | 7.9  | 4.8     |      |
| □ | 0.0   | 5.7      | 35.3 | 16.9   | 19.6   | 15.7 | 6.8     |      |
| △ | 0.0   | 24.2     | 22.1 | 7.2    | 16.5   | 19.5 | 10.5    |      |

|   | LL | PL | D85     | D60     | D50     | D30    | D15    | D10    | Cc   | Cu    |
|---|----|----|---------|---------|---------|--------|--------|--------|------|-------|
| ○ |    |    | 29.8083 | 18.5320 | 14.1239 | 5.7050 | 0.7157 | 0.3007 | 5.84 | 61.63 |
| □ |    |    | 12.2557 | 4.9423  | 3.1683  | 0.7359 | 0.2836 | 0.1878 | 0.58 | 26.31 |
| △ |    |    | 25.5743 | 7.7730  | 3.2225  | 0.4250 | 0.1764 |        |      |       |

| Material Description                      |  |  |  |  |  |  |  | USCS                 | AASHTO |
|---|--|--|--|--|--|--|--|----------------------|--------|
| ○ poorly graded GRAVEL with sand          |  |  |  |  |  |  |  | GP<br>SW-SM<br>SW-SM |        |
| □ poorly graded SAND with silt and gravel |  |  |  |  |  |  |  |                      |        |
| △ poorly graded SAND with silt and gravel |  |  |  |  |  |  |  |                      |        |

|   |   |
|---|---|
| <p><b>Project No.</b> T-8643-1      <b>Client:</b> CRG</p> <p><b>Project:</b> Chehalis Landing<br/>Lewis County, Washington</p> <p>○ <b>Location:</b> Test Pit TP-22      <b>Depth:</b> -8 feet</p> <p>□ <b>Location:</b> Test Pit TP-25      <b>Depth:</b> -3 feet</p> <p>△ <b>Location:</b> Test Pit TP-29      <b>Depth:</b> -4 feet</p> <p style="text-align: center;"><b>Terra Associates, Inc.</b></p> <p style="text-align: center;"><b>Kirkland, WA</b></p> | <p><b>Remarks:</b></p> <p>○ Tested on December 22, 2021</p> <p>□ Tested on December 22, 2021</p> <p>△ Tested on December 22, 2021</p> |
|---|---|

Figure A-48





**APPENDIX B**  
**SUBSURFACE EXPLORATIONS BY OTHERS**

# BORING LOG NO. B-A03

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6264° Longitude: -122.9054°<br><br>Approximate Surface Elev.: 247 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><b>FAT CLAY WITH SAND (CH)</b> , with organics, brown with orangish brown, moist, very soft   | 246.5+/-    |                          |             | 12             | 0-0-0-1<br>N=0     | S-1        |                   |                  |  |               |
|             |             | 2.9 hard, transitions to olive gray silty clay at 2.3 ft<br><b>CLAYEY SAND WITH GRAVEL (SC)</b> , trace clay, reddish brown to dark brown, moist, dense, stratified medium dense, interbedded with silty clay<br><br>orangish brown to dark reddish brown | 244+/-      |                          |             | 18             | 5-18-24<br>N=42    | S-2        |                   |                  |  |               |
| 2           |             | dark reddish brown and dark brown, wet<br><br>dense, interbedded with clay<br><br>interbedded with 5-inches reddish brown clayey sand with silt   |             | 5                        | ▽           | 15             | 18-15-11<br>N=26   | S-3        |                   |                  |  |               |
|             |             |   |             |                          |             | 9              | 8-13-11<br>N=24    | S-4        |                   |                  |  |               |
|             |             |   |             |                          |             | 16             | 8-11-16<br>N=27    | S-5        | 20.4              |                  |  | 16            |
|             |             |   |             |                          |             | 16             | 12-20-16<br>N=36   | S-6        |                   |                  |  |               |
|             |             |   |             |                          |             | 15             | 6-15-22<br>N=37    | S-7        |                   |                  |  |               |
| 3           |             | 13.5 <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , trace gravel, bluish gray, wet, very loose<br><br>dark bluish gray, very dense, interbedded with soft clayey silt with sand<br><br>hard drilling  | 233.5+/-    |                          |             |                |                    |            |                   |                  |  |               |
|             |             |   |             |                          |             | 3              | 4-0-0<br>N=0       | S-8        |                   |                  |  |               |
|             |             |   |             |                          |             | 16             | 17-37-48<br>N=85   | S-9        |                   |                  |  |               |
|             |             |   |             |                          |             | 9              | 36-50/6"           | S-10       |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

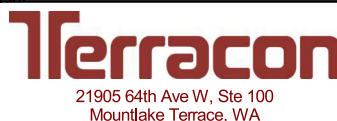
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-08-2021

Boring Completed: 01-08-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-A03

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER                           | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6264° Longitude: -122.9054°<br><br>Approximate Surface Elev.: 247 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|---------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|                                       |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 3                                     |             | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , trace gravel, bluish gray, wet, very loose<br><i>(continued)</i><br>very dense                      | 28.5        |                          | X           | 12             | 19-33-31<br>N=64   | S-11       | 11.9              |                  | 13            |
| 4                                     |             | <b>FAT CLAY (CH)</b> , bluish gray, wet, very stiff<br><br>trace silt, light bluish gray   | 218.5+/-    | 30                       |             | X              | 5-8-11<br>N=19     | S-12       |                   |                  |               |
|                                       |             |  | 35          |                          | X           | 18             | 9-9-15<br>N=24     | S-13       | 34.9              | 71-26-45         |               |
|                                       |             |  | 40          | ▽                        | X           | 18             | 18-13-15<br>N=28   | S-14       |                   |                  |               |
| <b>Boring Terminated at 41.5 Feet</b> |             |  |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

| WATER LEVEL OBSERVATIONS |   |
|--------------------------|---|
| ▽                        | Inferred from change in sample moisture |
| ▽                        | Measured with water level indicator     |

21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

|                            |                              |
|----------------------------|------------------------------|
| Boring Started: 01-08-2021 | Boring Completed: 01-08-2021 |
| Drill Rig: D-70            | Driller: Holocene            |
| Project No.: 81215062      |                              |



# BORING LOG NO. B-A04

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER                         | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6261° Longitude: -122.9048°<br><br>Approximate Surface Elev.: 247 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |   |
|-------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|---|
|                                     |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |   |
| 3                                   |             | 32.5   | 214.5+/-    | ▽                        | 0           | 50/3"          | S-11               |            |                   |                  |               |   |
|                                     |             |  |             |                          |             |                |                    |            |                   |                  |               | POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC), medium to coarse grained, dark bluish gray, wet, very dense ( <i>continued</i> )<br>very dense, no sample recovery |
|                                     |             |  |             |                          |             |                |                    |            |                   |                  |               | dense, no sample recovery<br>medium dense   |
| 4                                   |             | 44.0   | 203+/-      |                          |             |                |                    |            |                   |                  |               |   |
|                                     |             |  |             |                          |             |                |                    |            |                   |                  |               | FAT CLAY (CH), dark bluish gray, wet, very stiff  |
|                                     |             |  |             |                          |             |                |                    |            |                   |                  |               | hard, no sample recovery  |
| <b>Boring Terminated at 44 Feet</b> |             |  |             |                          |             |                |                    |            |                   |                  |               |   |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

| WATER LEVEL OBSERVATIONS |   |
|--------------------------|---|
| ▽                        | Inferred from change in sample moisture |
| ▽                        | Measured with water level indicator     |

21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

|                            |                              |
|----------------------------|------------------------------|
| Boring Started: 01-08-2021 | Boring Completed: 01-08-2021 |
| Drill Rig: D-70            | Driller: Holocene            |
| Project No.: 81215062      |                              |

# BORING LOG NO. B-A06

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

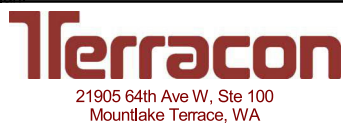
THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6255° Longitude: -122.9037°<br><br>Approximate Surface Elev.: 248 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)     | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|---|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |   |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |   | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist to wet, very soft  |             |                          |             | 20             | 0-1-2-3<br>N=3     | S-0        |                   |                  |  |               |
|             |   | <b>SANDY FAT CLAY (CH)</b> , trace gravel, yellowish brown to gray with orange mottling, moist, soft, with organics trace organics, medium stiff                       |             |                          |             | 9              | 1-2-5<br>N=7       | S-1        |                   |                  |  |               |
|             |   | very stiff   |             |                          |             | 15             | 2-4-12<br>N=16     | S-2        |                   |                  |  |               |
|             |   | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , orangish brown to brown, moist, very stiff, with silt and sand lenses rock fragments in sampler, blow counts might be overstated |             | 5                        |             | 13             | 3-8-11<br>N=19     | S-3        | 19.2              |                  |  | 35            |
|             |   | reddish brown, wet, hard, increase in gravel content, rock fragments in sampler, blow counts might be overstated   |             |                          |             | 12             | 6-26-18<br>N=44    | S-4        |                   |                  |  |               |
| 2           |   | very stiff, decrease in gravel content, sand content increasing with depth, transitions to gray sand with silt   |             | 10                       |             | 10             | 15-45-32<br>N=77   | S-5        |                   |                  |  |               |
|             | <b>LEAN CLAY (CL)</b> , dark gray, wet, very stiff to medium stiff  |  |             |                          | 15          | 4-8-15<br>N=23 | S-6                |            |                   |                  |  |               |
|             | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GM)</b> , dark gray, wet, very dense   |  | 15          |                          | 10          | 4-3-3<br>N=6   | S-7                | 35.3       | 49-25-24          |                  |  |               |
|             | only rock fragments recovered, blow counts might be overstated  |  | 20          |                          | 3           | 25-50/3"       | S-8                |            |                   |                  |  |               |
| 3           | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , medium to coarse grained, dark grayish blue to dark gray, wet, dense |  | 25          |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

|  |  |  |
|--|--|--|
| Advancement Method:<br>Hollow Stem Auger                                       | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any). | Notes:   |
| Abandonment Method:<br>Boring backfilled with bentonite chips upon completion. | See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.   |  |
|  | Elevations were interpolated from a topographic site plan  |  |
| <b>WATER LEVEL OBSERVATIONS</b>  |  |  |
|  | Inferred from change in sample moisture  | Boring Started: 01-07-2021<br>Boring Completed: 01-07-2021 |
|  | Measured with water level indicator  | Drill Rig: D-50<br>Driller: Holocene                       |
|  |  | Project No.: 81215062                                      |

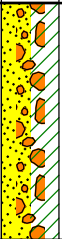


# BORING LOG NO. B-A06

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6255° Longitude: -122.9037°<br><br>Approximate Surface Elev.: 248 (Ft.) +/-<br>ELEVATION (Ft.)                                       | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|-------------|---|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|             |   |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 3           |  | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , medium to coarse grained, dark grayish blue to dark gray, wet, dense ( <i>continued</i> )<br><br>boring determined due to the obstruction | 30          |                          | X           | 6              | 8-14-23<br>N=37    | S-9        | 15.4              |                  | 11            |
|             |   | <b>Auger Refusal at 30 Feet</b>  |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

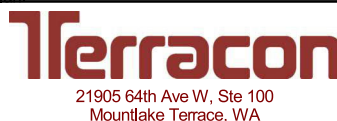
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



Boring Started: 01-07-2021

Boring Completed: 01-07-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-A09

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU\_TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6246° Longitude: -122.9022°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><b>SANDY FAT CLAY (CH)</b> , trace organics, gray and orange, moist, soft   | 251.5+/-    |                          |             | 13             | 0-1-1-2<br>N=2     | S-0        |                   |                  |  |               |
|             |             | 2.5 <b>SILTY CLAY (CL-ML)</b> , low to medium plasticity, olive gray, moist, medium stiff, sand content increasing with depth possibly perched groundwater  | 249.5+/-    |                          |             | 9              | 1-2-2<br>N=4       | S-1        |                   |                  |  |               |
| 2           |             | 4.0 <b>SANDY FAT CLAY WITH GRAVEL (CH)</b> , orangish brown, moist, very stiff<br><br>grayish brown to gray, decrease in gravel content<br><br>very stiff, increase in gravel content, rock fragements in sampler, blow counts might be overstated<br>increase in gravel content, blow count might be over stated due to rock fragments | 248+/-      | ▽                        |             | 12             | 4-13-11<br>N=24    | S-2        |                   |                  |  |               |
|             |             | 10.5 <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , orangish brown to grayish brown, wet, very dense<br><br>rock fragements in sampler, blow counts might be overstated   | 241.5+/-    | ▽                        |             | 11             | 5-7-7<br>N=14      | S-3        | 19.0              |                  |  | 43            |
|             |             |   |             |                          |             | 6              | 3-4-8<br>N=12      | S-4        |                   |                  |  |               |
|             |             |   |             |                          |             | 11             | 4-8-11<br>N=19     | S-5        |                   |                  |  |               |
| 4           |             |   |             |                          |             | 6              | 4-10-21<br>N=31    | S-6        |                   |                  |  |               |
|             |             |   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             |   |             |                          |             | 6              | 10-25-33<br>N=58   | S-7        |                   |                  |  |               |
|             |             |   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             |   |             |                          |             | 6              | 24-31-36<br>N=67   | S-8        | 12.5              |                  |  | 8             |
| 3           |             | 24.0  | 228+/-      |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

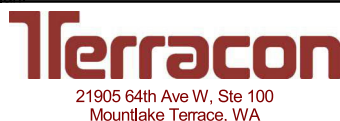
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-04-2021

Boring Completed: 01-04-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062





# BORING LOG NO. B-A09

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG  | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6246° Longitude: -122.9022°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.)      | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO.      | WATER CONTENT (%) | ATTERBERG LIMITS |          | PERCENT FINES |
|-------------|--|--|------------------|--------------------------|-------------|----------------|--------------------|-----------------|-------------------|------------------|----------|---------------|
|             |  |  |                  |                          |             |                |                    |                 |                   | LL-PL-PI         |          |               |
| 3           |   | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , medium grained, dark blue to dark gray, wet, medium dense ( <i>continued</i> )                            | 26.5<br>225.5+/- |                          | X           | 12             | 10-8-11<br>N=19    | S-9             |                   |                  |          |               |
| 4           |  | <b>FAT CLAY (CH)</b> , medium plasticity, dark grayish blue, wet, hard   |                  | 30                       |             | X              | 18                 | 9-12-19<br>N=31 | S-10              | 30.7             | 58-19-39 |               |
|             |  | very stiff   |                  | 35                       |             | X              | 14                 | 8-11-13<br>N=24 | S-11              |                  |          |               |
|             |  |  |                  | 40                       |             | X              | 18                 | 8-11-15<br>N=26 | S-12              | 39.9             | 80-28-52 |               |
|             |  | medium plasticity, dark gray to dark grayish blue  |                  | 45                       |             | X              | 18                 | 7-8-11<br>N=19  | S-13              |                  |          |               |
|             |  |  | 50               |                          |             |                |                    |                 |                   |                  |          |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).



Notes:

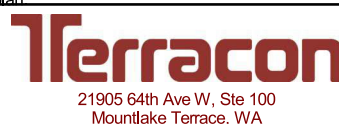
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

-  Inferred from change in sample moisture
-  Measured with water level indicator



Boring Started: 01-04-2021

Boring Completed: 01-04-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT 8/23/21

# BORING LOG NO. B-A09

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                           | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6246° Longitude: -122.9022°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS<br>LL-PL-PI | PERCENT FINES |
|---------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------------------|---------------|
| 4                                     |             | <b>FAT CLAY (CH)</b> , medium plasticity, dark grayish blue, wet, hard <i>(continued)</i><br>51.5 200.5+/-   |             |                          | X           | 18             | 8-11-13<br>N=24    | S-14       | 39.2              | 109-29-80                    |               |
| <b>Boring Terminated at 51.5 Feet</b> |             |  |             |                          |             |                |                    |            |                   |                              |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

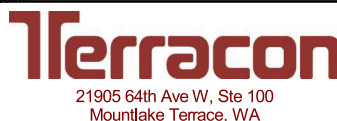
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



Boring Started: 01-04-2021

Boring Completed: 01-04-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATATEMPLATE.GDT 8/23/21

# BORING LOG NO. B-A11

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6239° Longitude: -122.9011°<br><br>Approximate Surface Elev.: 256 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)   | DEPTH (Ft.)      | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |    | PERCENT FINES |
|-------------|-------------|--|------------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|----|---------------|
|             |             |  |                  |                          |             |                |                    |            |                   | LL-PL-PI         |    |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, brown with reddish brown, moist, very soft<br><b>SILTY CLAY (CL-ML)</b> , with organics, gray and orange, moist, soft trace organics   | 255.5+/-         |                          |             | 16             | 0-1-2-4<br>N=3     | S-0        |                   |                  |    |               |
| 2           |             | 5.5 <b>SANDY FAT CLAY WITH GRAVEL (CH)</b> , orangish brown, moist, stiff, gravel content increasing with depth, rock fragments, blow counts might be over stated very stiff, interbedded with gray and orange clay<br><br>interbedded sand with gravel, reddish brown | 250.5+/-         |                          |             | 2              | 1-2-2<br>N=4       | S-1        |                   |                  |    |               |
|             |             | 8  | 1-4-10<br>N=14   | S-3                      |             |                |                    |            |                   |                  |    |               |
|             |             | 8  | 5-10-12<br>N=22  | S-4                      |             |                |                    |            |                   |                  |    |               |
|             |             | 13   | 11-12-15<br>N=27 | S-5                      |             |                |                    |            |                   |                  |    |               |
| 3           |             | 9.0 <b>CLAYEY SAND (SC)</b> , low to no plasticity, yellowish brown to grayish brown with orange mottling, moist, medium dense, sand content increasing with depth   | 247+/-           |                          |             | 14             | 3-5-7<br>N=12      | S-6        | 27.5              |                  | 44 |               |
|             |             | 12.0 <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , orangish brown, moist to wet, very dense<br><br>wet, only rock fragments recovered, blow counts might be overstated  | 244+/-           |                          |             | 4              | 14-50/6"           | S-7        |                   |                  |    |               |
|             |             | 21.5 <b>Boring Terminated at 21.5 Feet</b>   | 234.5+/-         |                          |             | 9              | 7-24-29<br>N=53    | S-8        |                   |                  |    |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

|   |   |   |
|---|---|---|
| Advancement Method:<br>Hollow Stem Auger  | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevations were interpolated from a topographic site plan | Notes:  |
| Abandonment Method:<br>Boring backfilled with bentonite chips upon completion.  |   |   |
| <b>WATER LEVEL OBSERVATIONS</b><br>▽ Inferred from change in sample moisture<br>▽ Measured with water level indicator | <p>21905 64th Ave W, Ste 100<br/>Mountlake Terrace, WA</p>  | Boring Started: 01-04-2021<br>Boring Completed: 01-04-2021<br><br>Drill Rig: D-50<br>Driller: Holocene<br><br>Project No.: 81215062 |



# BORING LOG NO. B-B04

**PROJECT: Proposed Industrial Park - Chehalis PWI Site**

**CLIENT: Puget Western Inc  
Bothell, WA**

**SITE: 2800 Jackson Highway  
Chehalis, WA**

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6258° Longitude: -122.9052°<br><br>Approximate Surface Elev.: 247 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |    | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|----|---------------|
|             |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |    |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><br><b>FAT CLAY (CH)</b> , with organics, brownish gray with reddish brown, moist, very soft<br><br>trace organics, olive brownish gray with brown, very stiff, with gravel | 246.5+/-    |                          |             | 18             | 0-0-0-2<br>N=0     | S-1        |                   |                  |    |               |
|             |             | 3.5   | 243.5+/-    |                          |             | 18             | 3-8-14<br>N=22     | S-2        |                   |                  |    |               |
|             |             | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , trace gravel, reddish brown to dark brown, moist, medium dense, yellow sand patches with gravel   |             |                          |             | 17             | 4-9-8<br>N=17      | S-3        |                   |                  |    |               |
|             |             | with gravel, dark reddish brown with brown  |             |                          |             | 14             | 6-6-8<br>N=14      | S-4        | 20.0              |                  | 16 |               |
|             |             | very dense  |             |                          |             | 14             | 1-4-15<br>N=19     | S-5        |                   |                  |    |               |
| 2           |             | dense   |             |                          |             | 8              | 15-25-28<br>N=53   | S-6        |                   |                  |    |               |
|             |             |   |             |                          |             | 14             | 21-25-19<br>N=44   | S-7        |                   |                  |    |               |
|             |             | 13.5  | 233.5+/-    |                          |             |                |                    |            |                   |                  |    |               |
|             |             | <b>SANDY FAT CLAY (CH)</b> , bluish gray, moist, medium stiff   |             |                          |             | 18             | 2-2-4<br>N=6       | S-8        | 35.5              |                  | 50 |               |
|             |             | 18.5  | 228.5+/-    |                          |             |                |                    |            |                   |                  |    |               |
|             |             | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , dark gray, wet, very dense   |             |                          |             | 6              | 24-50/4"           | S-9        |                   |                  |    |               |
| 3           |             |   |             |                          |             |                |                    |            |                   |                  |    |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

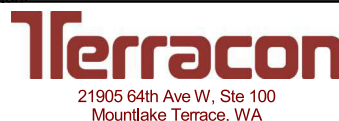
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

▽ Inferred from change in sample moisture



Boring Started: 01-04-2021

Boring Completed: 01-04-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

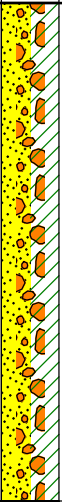

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-B04

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                           | GRAPHIC LOG  | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6258° Longitude: -122.9052°<br><br>Approximate Surface Elev.: 247 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|---------------------------------------|--|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|                                       |  |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 3                                     |   | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , dark gray, wet, very dense ( <i>continued</i> )   |             |                          | X           | 12             | 37-42-42<br>N=84   | S-10       |                   |                  |  |               |
|                                       |  | no sample recovery, gravel stuck in shoe, blowcounts may be overstated   | 30          |                          |             | 0              | 50/4"              | S-11       |                   |                  |  |               |
|                                       |  | 35.5 medium dense  | 35          |                          | X           | 18             | 18-10-12<br>N=22   | S-12       |                   |                  |  |               |
| 4                                     |  | <b>FAT CLAY (CH)</b> , bluish gray, wet, very stiff  |             |                          | X           | 18             | 5-5-7<br>N=12      | S-13       |                   |                  |  |               |
|                                       |  | stiff  | 40          |                          | X           | 18             | 5-5-7<br>N=12      | S-13       |                   |                  |  |               |
|                                       |  | 41.5   | 41.5        |                          |             |                |                    |            |                   |                  |  |               |
| <b>Boring Terminated at 41.5 Feet</b> |  |  |             |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

 Inferred from change in sample moisture

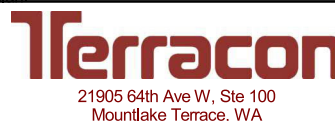
Boring Started: 01-04-2021

Boring Completed: 01-04-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062



THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-B05

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6255° Longitude: -122.9046°<br><br>Approximate Surface Elev.: 248 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.)   | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |  |
|-------------|-------------|--|---|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|--|
|             |             |  |   |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |  |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft 247.5+/-  |   |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | <b>FAT CLAY WITH SAND (CH)</b> , with organics, brown with orangish brown, moist, very soft  |   |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | 2.0  | 2.5 <b>CLAYEY SAND (SC)</b> , trace gravel, dark brown with gray, moist, medium dense, stratified 245.5+/-  |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             |  | <b>FAT CLAY (CH)</b> , olive gray, moist, very stiff  |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | 4.2  | trace organics, olive gray with reddish brown, with fine sand 244+/-  |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             |  | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , reddish brown, moist, medium dense  |                          | 5           |                |                    |            |                   |                  |  |               |  |
|             |             | 6.5  | 241.5+/-  |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | 7.6  | <b>FAT CLAY WITH SAND (ML)</b> , with clay, olive grayish brown with reddish brown, moist, stiff 240.5+/-   |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             |  | <b>CLAYEY GRAVEL WITH SAND (GC)</b> , fine to medium grained, reddish brown, moist, dense with gravel, fine to coarse grained, brown to dark brown, moist dark brown with reddish brown |                          | 10          |                |                    |            |                   |                  |  |               |  |
|             |             | 13.5   | 234.5+/-  |                          |             |                |                    |            |                   |                  |  |               |  |
| 2           |             | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , dark gray and bluish gray, wet, very dense  |   |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             |  |   |                          |             |                |                    |            |                   |                  |  |               |  |
| 3           |             | olive gray to dark gray, dense   |   |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             |  |   |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             |  | 25  | ▽                        |             |                |                    |            |                   |                  |  |               |  |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

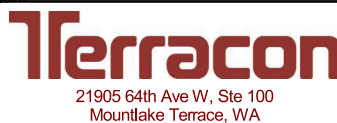
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-04-2021

Boring Completed: 01-04-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-B05

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PUJ\_TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6255° Longitude: -122.9046°<br><br>Approximate Surface Elev.: 248 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 3           |             | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , dark gray and bluish gray, wet, very dense<br><i>(continued)</i><br>bluish gray to dark gray          | 28.5        |                          | X           | 15             | 23-37-35<br>N=72   | S-10       | 14.4              |                  | 10            |
|             |             |  | 30          | ▽                        |             |                |                    |            |                   |                  |               |
| 4           |             | <b>FAT CLAY (CH)</b> , with silt, bluish gray, wet, very stiff<br><br>stiff  | 36.5        |                          | X           | 12             | 5-9-10<br>N=19     | S-11       |                   |                  |               |
|             |             |  | 35          |                          | X           | 18             | 2-5-9<br>N=14      | S-12       |                   |                  |               |
|             |             | <b>Boring Terminated at 36.5 Feet</b>  |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

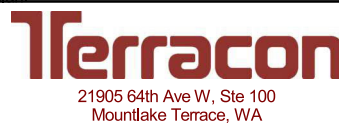
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-04-2021

Boring Completed: 01-04-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062






# BORING LOG NO. B-B07

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6249° Longitude: -122.9036°<br><br>Approximate Surface Elev.: 248 (Ft.) +/-<br>ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | ATTERBERG LIMITS  |          | PERCENT FINES |
|-------------|---|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|----------|---------------|
|             |   |   |             |                          |             |                |                    |            | WATER CONTENT (%) | LL-PL-PI |               |
| 3           |  | <p><b>POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC)</b>, bluish gray to dark gray, moist, very dense<br/>(continued)<br/>no sample recovery</p> <p>no sample recovery</p> <p>no sample recovery</p> <p>no sample recovery</p> | 30          |                          |             | 0              | 50/0"              | S-11       |                   |          |               |
|             |   |   | 30          |                          |             | 0              | 50/2"              | S-12       |                   |          |               |
|             |   |   | 30          |                          |             | 0              | 50/1"              | S-13       |                   |          |               |
|             |   |   | 35.0        | 213+/-                   | 35          |                |                    | 0          | 50/0"             | S-14     |               |
|             |   | <b>Boring Terminated at 35 Feet</b>   |             |                          |             |                |                    |            |                   |          |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

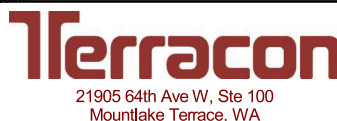
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



Boring Started: 01-05-2021

Boring Completed: 01-05-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-B09

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6243° Longitude: -122.9025°<br><br>Approximate Surface Elev.: 250 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | ATTERBERG LIMITS  |          | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|----------|---------------|
|             |             |   |             |                          |             |                |                    |            | WATER CONTENT (%) | LL-PL-PI |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><b>FAT CLAY (CH)</b> , low to medium plasticity, olive gray with orange mottling, moist, medium stiff   | 249.5+/-    |                          |             | 17             | 0-2-2-2<br>N=4     | S-0        |                   |          |               |
|             |             | 3.5 <b>SANDY FAT CLAY WITH GRAVEL (CH)</b> , orangish brown with gray mottling, moist, hard<br><br>stiff, with interbedded clay   | 246.5+/-    |                          |             | 8              | 1-2-3<br>N=5       | S-1        |                   |          |               |
|             |             | 8.5 <b>FAT CLAY (CH)</b> , light gray, moist, stiff, sand content increasing with depth, transitions to orange brown silty sand gradually<br><br>low to medium plasticity, olive gray with orange mottling, moist, very stiff | 241.5+/-    |                          |             | 8              | 1-6-11<br>N=17     | S-5        |                   |          |               |
| 2           |             | 18.0 <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , orangish brown to grayish brown, wet, very dense<br><br>rock fragments in sampler, blow counts might be overstated  | 232+/-      |                          |             | 8              | 24-50/5"           | S-8        |                   |          |               |
| 3           |             | 22.0 <b>Auger Refusal at 22 Feet</b>  | 228+/-      |                          |             |                |                    |            |                   |          |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

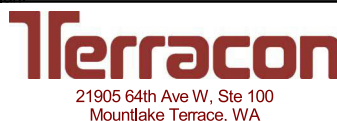
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-05-2021

Boring Completed: 01-05-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-B10

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6240° Longitude: -122.9020°<br><br>Approximate Surface Elev.: 251 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)   | DEPTH (Ft.)                           | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.)           | FIELD TEST RESULTS   | SAMPLE NO.                      | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|---------------------------------------|--------------------------|-------------|--------------------------|--|---------------------------------|-------------------|------------------|--|---------------|
|             |             |  |                                       |                          |             |                          |  |                                 |                   | LL-PL-PI         |  |               |
| 1           |             | <b>TOPSOIL (ML)</b> , with organics, dark brown, moist, very soft<br><br><b>LEAN CLAY (CL)</b> , low to medium plasticity, olive gray with orange mottling, moist, soft<br>low to medium plasticity, medium stiff<br><br>stiff, sand content increasing and clay content decreasing with depth               | 0.5<br>250.5+/-<br><br>5.0<br>246+/-  |                          |             | 11                       | 0-0-2-3<br>N=2   | S-0                             |                   |                  |  |               |
| 2           |             | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , orangish brown, moist, medium dense, silt content increasing with depth<br><br><b>FAT CLAY (CH)</b> , trace gravels, orangish brown, moist, stiff, gravel content increasing with depth<br><br>very stiff, rock fragments in sampler, blow counts might be over stated | 6.5<br>244.5+/-<br><br>10.0<br>241+/- |                          |             | 10<br>9<br>11<br>9<br>10 | 1-2-3<br>N=5<br>3-5-10<br>N=15<br>4-13-4<br>N=17<br>2-5-5<br>N=10<br>3-10-12<br>N=22 | S-1<br>S-2<br>S-3<br>S-4<br>S-5 | 41.0              | 49-26-23         |  |               |
| 3           |             | <b>POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC)</b> , orangish brown to grayish brown, moist, very dense<br><br>wet, dense<br><br>very dense  | 10<br>241+/-<br><br>15<br><br>20      | ▽<br><br>▽               |             | 7<br><br>12<br><br>9     | 7-22-33<br>N=55<br><br>11-19-28<br>N=47<br><br>28-50/4"                              | S-6<br><br>S-7<br><br>S-8       |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

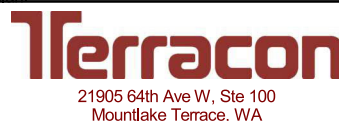
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Measured with water level indicator
- ▽ Measured with water level indicator



Boring Started: 01-05-2021

Boring Completed: 01-05-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062


THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PUJ\_TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-B10

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                       | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6240° Longitude: -122.9020°<br><br>Approximate Surface Elev.: 251 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|-----------------------------------|---|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|                                   |   |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 3                                 |  | 26.5   | 224.5+/-    |                          | X           | 10             | 29-36-50/6"        | S-9        | 14.3              |                  | 10            |
| <b>Auger Refusal at 26.5 Feet</b> |   |  |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).



Notes:

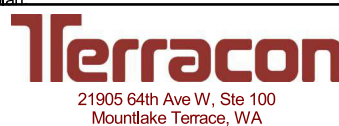
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

-  Measured with water level indicator
-  Measured with water level indicator



Boring Started: 01-05-2021

Boring Completed: 01-05-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATATEMPLATE.GDT 8/23/21

# BORING LOG NO. B-B11

**PROJECT: Proposed Industrial Park - Chehalis PWI Site**

**CLIENT: Puget Western Inc  
Bothell, WA**

**SITE: 2800 Jackson Highway  
Chehalis, WA**

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6236° Longitude: -122.9015°<br><br>Approximate Surface Elev.: 253 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |    | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|----|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |    |               |
| 1           |             | 0.5 <b>TOPSOIL (ML)</b> , with organics, dark brown, moist, very soft  | 252.5+/-    |                          |             | 19             | 1-2-3-5<br>N=5     | S-0        |                   |                  |    |               |
| 2           |             | <b>SANDY FAT CLAY WITH GRAVEL (CH)</b> , low to medium plasticity, orangish brown with gray mottling, moist, medium stiff<br><br>trace organics, with orange mottling with orange mottling, less fine roots<br>very stiff, rock fragments in sampler, blow counts might be overstated<br>hard, rock fragments in sampler, blow counts might be overstated<br>very stiff<br><br>stiff, decrease in gravel content |             |                          |             | 8              | 2-5-15<br>N=20     | S-1        |                   |                  |    |               |
|             |             |  |             |                          |             | 10             | 3-12-28<br>N=40    | S-2        |                   |                  |    |               |
|             |             |  |             |                          |             | 9              | 3-6-12<br>N=18     | S-3        |                   |                  |    |               |
|             |             |  |             |                          |             | 14             | 3-4-4<br>N=8       | S-4        |                   |                  |    |               |
|             |             |  |             |                          |             | 13             | 4-12-22<br>N=34    | S-5        |                   |                  |    |               |
|             |             | possibly perched groundwater   |             |                          |             |                |                    |            |                   |                  |    |               |
|             |             | wet, transitions to silty sand with gravel, gravel content increasing with depth   | 236.5+/-    |                          |             | 13             | 12-16-32<br>N=48   | S-6        | 18.2              |                  | 12 |               |
| 3           |             | <b>WELL GRADED SAND WITH CLAY AND GRAVEL (SW-SC)</b> , orangish brown to grayish brown, wet, very dense  | 232.5+/-    |                          |             |                |                    |            |                   |                  |    |               |
|             |             | 20.3 only rock fragments recovered, blow counts might be overstated, no sample recovery<br><b>Auger Refusal at 20.3 Feet</b>   |             |                          |             | 0              | 24-50/-3"          | S-7        |                   |                  |    |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

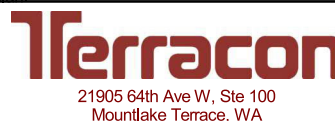
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Measured with water level indicator



Boring Started: 01-05-2021

Boring Completed: 01-05-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-B12

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6233° Longitude: -122.9010°<br><br>Approximate Surface Elev.: 254 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft   | 253.5+/-    |                          |             | 19             | 0-2-3-4<br>N=5     | S-0        |                   |                  |  |               |
| 2           |             | <b>SILTY CLAY (CL-ML)</b> , low to medium plasticity, gray and orange, moist, medium stiff   |             |                          |             | 8              | 1-2-4<br>N=6       | S-1        |                   |                  |  |               |
|             |             | transitions to sandy silt, gray with orange mottling   |             |                          |             | 10             | 3-6-10<br>N=16     | S-2        |                   |                  |  |               |
|             |             | 4.5 <b>POORLY GRADED SAND WITH GRAVEL (SP)</b> , orangish brown with gray mottling, moist, dense rock fragments in sampler, blow counts might be overstated  | 249.5+/-    |                          |             | 9              | 7-10-24<br>N=34    | S-3        |                   |                  |  |               |
|             |             | medium dense, with interbedded silt and sand   |             |                          |             | 14             | 8-14-18<br>N=32    | S-4        | 13.1              |                  |  |               |
|             |             | with interbedded sand and clay   |             |                          |             | 13             | 3-6-8<br>N=14      | S-5        |                   |                  |  |               |
|             |             | 12.5 <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , orangish brown to grayish brown, wet, dense to very dense  | 241.5+/-    |                          |             | 13             | 3-5-10<br>N=15     | S-6        |                   |                  |  |               |
| 3           |             | blow counts might be overstated, no sample recovery  |             |                          |             | 0              | 50/3"              | S-7        |                   |                  |  |               |
|             |             |  |             |                          |             | 2              | 50/4"              | S-8        |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

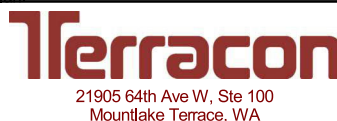
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



Boring Started: 01-06-2021

Boring Completed: 01-06-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-B12

**PROJECT: Proposed Industrial Park - Chehalis PWI Site**

**CLIENT: Puget Western Inc  
Bothell, WA**

**SITE: 2800 Jackson Highway  
Chehalis, WA**

| MODEL LAYER                           | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6233° Longitude: -122.9010°<br><br>Approximate Surface Elev.: 254 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS<br>LL-PL-PI | PERCENT FINES |
|---------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------------------|---------------|
|                                       |             | 25.3   | 228.5+/-    |                          | X           | 2              | 50/4"              | S-9        |                   |                              |               |
| <b>Boring Terminated at 25.3 Feet</b> |             |  |             |                          |             |                |                    |            |                   |                              |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

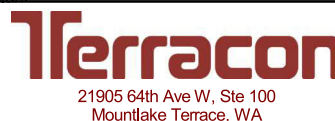
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture*
- Measured with water level indicator*



Boring Started: 01-06-2021

Boring Completed: 01-06-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATATEMPLATE.GDT 8/23/21



# BORING LOG NO. B-B13

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6230° Longitude: -122.9004°<br><br>Approximate Surface Elev.: 256 (Ft.) +/-             | DEPTH | ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|---|-------|-----------------|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |   |       |                 |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             |   | 0.5   | 255.5+/-        |             |                          |             | 20             | 0-1-3-3<br>N=4     | S-0        |                   |                  |  |               |
|             |             | <b>TOPSOIL</b> , with organics, brown to dark brown, moist, very soft   |       |                 |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | <b>SANDY FAT CLAY WITH GRAVEL (CH)</b> , trace organics, low plasticity, gray and orange, moist, medium stiff   | 2.0   | 254+/-          |             |                          |             | 10             | 1-2-3<br>N=5       | S-1        | 33.5              | 46-23-23         |  |               |
|             |             | <b>LEAN CLAY (CL)</b> , trace organics, gray and orange, moist, medium stiff  |       |                 |             |                          |             | 11             | 3-4-12<br>N=16     | S-2        |                   |                  |  |               |
|             |             | trace organics, low to medium plasticity, olive gray with orange mottling, very stiff, sand content increasing and clay content decreasing with depth | 4.5   | 251.5+/-        | 5           |                          |             | 8              | 3-13-14<br>N=27    | S-3        |                   |                  |  |               |
|             |             | <b>SANDY FAT CLAY WITH GRAVEL (CH)</b> , orangish brown, moist, very stiff  |       |                 |             |                          |             | 11             | 11-13-16<br>N=29   | S-4        |                   |                  |  |               |
|             |             | rock fragments in sampler, blow counts might be overstated  |       |                 |             |                          |             | 9              | 10-15-7<br>N=22    | S-5        |                   |                  |  |               |
| 2           |             | with yellowish brown with orange mottling interbedded silt wet, hard, no sample recovery, possibly due to cobbles                                     |       |                 | 10          | ▽                        |             | 0              | 3-15-17            | S-6        |                   |                  |  |               |
|             |             |   |       |                 |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | <b>FAT CLAY (CH)</b> , medium plasticity, yellowish brown, wet, stiff   | 14.0  | 242+/-          | 15          | ▽                        |             | 12             | 3-4-6<br>N=10      | S-7        |                   |                  |  |               |
|             |             |   |       |                 |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , orangish brown to grayish brown, wet, very dense   | 18.0  | 238+/-          | 20          |                          |             | 9              | 18-50/4"           | S-8        |                   |                  |  |               |
| 3           |             | only rock fragments recovered, blow counts might be overstated  | 20.8  | 235+/-          |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | <b>Boring Terminated at 20.8 Feet</b>   |       |                 |             |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

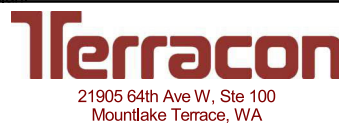
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-04-2021

Boring Completed: 01-04-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-B14

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6227° Longitude: -122.8999°<br><br>Approximate Surface Elev.: 260 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO.          | WATER CONTENT (%) | ATTERBERG LIMITS |          | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|---------------------|-------------------|------------------|----------|---------------|
|             |             |  |             |                          |             |                |                    |                     |                   | LL-PL-PI         |          |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, brown, moist, very soft  | 259.5+/-    |                          |             |                |                    |                     |                   |                  |          |               |
|             |             | <b>SANDY FAT CLAY (CH)</b> , brown, moist, very soft   | 2.0         | 258+/-                   |             |                | 23                 | 1-0-0<br>N=0        | S-1               |                  |          |               |
| 2           |             | <b>CLAYEY SAND (SC)</b> , trace gravel, orange brown, moist, medium dense  |             |                          |             |                | 13                 | 7-9-16<br>N=25      | S-2               | 22.9             | 42-22-20 | 38            |
|             |             | with gravel, brown to orange brown, very dense   |             |                          |             |                | 16                 | 16-22-29-32<br>N=51 | S-3               |                  |          |               |
|             |             | trace gravel, orange brown, dense  |             |                          |             |                | 5.5                | 4-23-23-16<br>N=46  | S-4               | 21.5             | 33-16-17 | 21            |
|             |             | orange to orange gray, medium dense  |             |                          |             |                | 18                 | 4-7-8-21<br>N=15    | S-5               | 21.9             | 31-18-13 | 24            |
|             |             | 10.0 increase in gravel content  | 250+/-      |                          |             |                |                    |                     |                   |                  |          |               |
| 3           |             | <b>POORLY GRADED SAND WITH GRAVEL (SP)</b> , orange to orange gray, moist, medium dense, interbedded with 5-inches of silt                                   |             |                          |             |                | 22                 | 12-12-9-9<br>N=21   | S-6               | 17.8             | 34-21-13 | 3             |
|             |             | with gravel, wet, very dense   |             |                          |             |                |                    |                     |                   |                  |          |               |
|             |             | hard drilling at 16 feet   |             |                          |             |                |                    |                     |                   |                  |          |               |
|             |             |  |             |                          |             |                |                    |                     |                   |                  |          |               |
| 4           |             | <b>SANDY FAT CLAY WITH GRAVEL (CH)</b> , brown, wet, hard  |             |                          |             |                |                    |                     |                   |                  |          |               |
|             |             |  |             |                          |             |                |                    |                     |                   |                  |          |               |
|             |             | <b>Boring Terminated at 21.5 Feet</b>  |             |                          |             |                |                    |                     |                   |                  |          |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

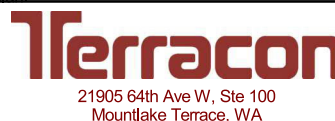
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

While drilling



Boring Started: 12-28-2020

Boring Completed: 12-28-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-B16

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6221° Longitude: -122.8988°<br><br>Approximate Surface Elev.: 260 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><br><b>FAT CLAY WITH SAND (CH)</b> , low to medium plasticity, yellowish brown with orange mottling, moist, soft, sand content increasing and clay content decreasing with depth medium stiff, transitions to olive gray to gray, with orange mottling<br><br>stiff, transitions to sandy silt | 259.5+/-    |                          |             | 16             | 0-1-1-2<br>N=2     | S-0        |                   |                  |  |               |
|             |             |  |             |                          |             | 7              | 1-2-2<br>N=4       | S-1        |                   |                  |  |               |
|             |             |  |             |                          |             | 14             | 2-3-7<br>N=10      | S-2        | 25.5              | 67-22-45         |  |               |
| 2           |             | 5.5 <b>SANDY FAT CLAY WITH GRAVEL (CH)</b> , orangish brown, moist, very stiff<br>rock fragments in sampler, blow count might be overstated stiff<br>transitions to olive gray with orange mottling<br>yellowish brown to grayish brown, wet<br><br>sand content increasing with depth   | 254.5+/-    | ▽                        |             | 8              | 2-10-15<br>N=25    | S-3        |                   |                  |  |               |
|             |             |  |             |                          |             | 8              | 3-5-7<br>N=12      | S-4        |                   |                  |  |               |
|             |             |  |             |                          |             | 10             | 3-5-7<br>N=12      | S-5        |                   |                  |  |               |
|             |             |  |             |                          |             | 10             | 3-4-5<br>N=9       | S-6        |                   |                  |  |               |
| 3           |             | 13.0 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , orangish brown, wet, very dense, obstruction<br><br>gravel content increasing with depth  | 247+/-      | ▽                        |             | 8              | 2-23-36<br>N=59    | S-7        | 22.3              |                  |  | 20            |
|             |             |  |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | 20.3 no sample recovery, possibly due to cobbles or boulders, blow counts might be overstated<br><b>Boring Terminated at 20.3 Feet</b>   | 239.5+/-    |                          |             | 0              | 50/3"              | S-8        |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

|   |   |   |
|---|---|---|
| Advancement Method:<br>Hollow Stem Auger  | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevations were interpolated from a topographic site plan | Notes:  |
| Abandonment Method:<br>Boring backfilled with bentonite chips upon completion.  |   |   |
| <b>WATER LEVEL OBSERVATIONS</b><br>▽ Inferred from change in sample moisture<br>▽ Measured with water level indicator | <p style="font-size: 0.8em; margin-top: 5px;">21905 64th Ave W, Ste 100<br/>Mountlake Terrace, WA</p>   | Boring Started: 01-06-2021<br>Boring Completed: 01-06-2021<br><br>Drill Rig: D-50<br>Driller: Holocene<br><br>Project No.: 81215062 |



# BORING LOG NO. B-C06

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6249° Longitude: -122.9045°<br><br>Approximate Surface Elev.: 248 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO.     | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|----------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |                |                   | LL-PL-PI         |  |               |
| 3           |             | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , bluish gray to dark gray, wet, very dense (continued)<br><br>no sample recovery                     | 30          |                          | X           | 6              | 50/6"              | S-11           |                   |                  |  |               |
|             |             |  | 30          |                          | X           | 7              | 5-50/5"            | S-12           |                   |                  |  |               |
|             |             |  | 30          |                          | /           | 0              | 50/4"              | S-13           |                   |                  |  |               |
| 4           |             | 35.5 dark gray<br>36.5<br><b>FAT CLAY WITH SAND (CH)</b> , trace gravel, wet, hard   | 35          |                          | X           | 14             | 22-35-41<br>N=76   | S-14B<br>S-14A |                   |                  |  |               |
|             |             | <b>Boring Terminated at 36.5 Feet</b>  |             |                          |             |                |                    |                |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

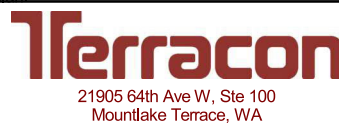
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- At 9:54 AM after completion of drilling
- At 10:00 AM after completion of drilling



Boring Started: 01-05-2021

Boring Completed: 01-05-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK - CHEHALIS PWI SITE. TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-C07

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU\_TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6246° Longitude: -122.9039°<br><br>Approximate Surface Elev.: 248 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown with orangish brown, moist, very soft 247.5+/-  |             |                          |             | 19             | 0-0-0-3<br>N=0     | S-1        |                   |                  |  |               |
|             |             | 2.0 <b>FAT CLAY WITH SAND (CH)</b> , with organics, olive grayish brown with orangish brown, moist, very soft 246+/-   |             |                          |             | 17             | 8-12-18<br>N=30    | S-2        |                   |                  |  |               |
|             |             | 3.5 <b>CLAYEY SAND (SC)</b> , with clay, brownish gray with reddish brown, moist, dense, stratified 244.5+/-   |             |                          |             | 16             | 9-17-13<br>N=30    | S-3        |                   | 15.6             |  | 16            |
|             |             | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , dark reddish brown to dark brown, moist, dense, stratified<br>medium dense   |             |                          | 5           | 15             | 6-4-7<br>N=11      | S-4        |                   |                  |  |               |
|             |             | 7.5 <b>CLAYEY SAND (SC)</b> , with clay, olive gray, very stiff 240.5+/-   |             |                          |             | 17             | 9-21-14<br>N=35    | S-5        |                   |                  |  |               |
|             |             | 9.5 <b>FAT CLAY (CH)</b> , with silt and sand, olive gray with reddish brown, moist, hard 238.5+/-   |             |                          |             | 18             | 4-6-10<br>N=16     | S-6        |                   | 27.5             |  | 33            |
|             |             | 10.5 <b>CLAYEY SAND (SC)</b> , with silt, olive gray, moist, dense 237.5+/-  |             |                          | 10          | 16             | 5-12-21<br>N=33    | S-7        |                   |                  |  |               |
|             |             | 13.5 <b>FAT CLAY WITH SAND (CH)</b> , bluish gray, wet, stiff, stratified 234.5+/-   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | 18.5 <b>CLAYEY GRAVEL WITH SAND (GC)</b> , dark brown, wet, very dense<br>rock fragements in sampler, blowcounts might be overstated 229.5+/-                      |             |                          | 20          |                |                    | 7          | 31-50/5"          | S-9              |  |               |
|             |             |  |             |                          | 25          |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic


|  |  |                              |
|--|--|------------------------------|
| Advancement Method:<br>Hollow Stem Auger                                       | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any). | Notes:                       |
| Abandonment Method:<br>Boring backfilled with bentonite chips upon completion. | See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.   |                              |
| Elevations were interpolated from a topographic site plan                      |  |                              |
| <b>WATER LEVEL OBSERVATIONS</b>  |  |                              |
| Inferred from change in sample moisture  |  | Boring Started: 01-05-2021   |
| Measured with water level indicator  |  | Boring Completed: 01-05-2021 |
| <br>21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA                         |  | Drill Rig: D-70              |
|  |  | Driller: Holocene            |
|  |  | Project No.: 81215062        |

# BORING LOG NO. B-C07

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                                   | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6246° Longitude: -122.9039°<br><br>Approximate Surface Elev.: 248 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)               | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|---|---|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|   |   |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 3   |  | <p><b>CLAYEY GRAVEL WITH SAND (GC)</b>, dark brown, wet, very dense (<i>continued</i>) bluish gray, coarse gravel, rock fragments in sampler, blowcounts might be overstated</p> | 30          |                          | X           | 6              | 32-50/5"           | S-10       | 9.4               |                  | 16            |
|   |   |  | 35          |                          | X           | 1              | 50/6"              | S-11       |                   |                  |               |
|   |   |  | 35.8        |                          | X           | 2              | 31-50/3"           | S-12       |                   |                  |               |
| <p><b>Boring Terminated at 35.75 Feet</b></p> |   |  |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

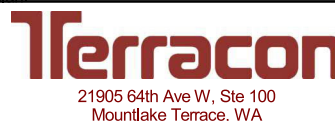
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



Boring Started: 01-05-2021

Boring Completed: 01-05-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21



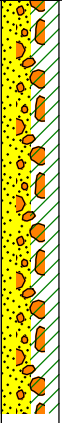
# BORING LOG NO. B-C09

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6240° Longitude: -122.9029°<br><br>Approximate Surface Elev.: 250 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|---|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |   |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |    | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft   | 249.5+/-    |                          |             |                |                    |            |                   |                  |  |               |
|             |   | <b>FAT CLAY WITH SAND (CH)</b> , with organics, dark brown with orangish brown, moist, very soft   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |   | 2.0 olive gray with orangish brown   | 248+/-      |                          |             |                |                    |            |                   |                  |  |               |
|             |   | <b>CLAYEY SAND (SC)</b> , trace organics, grayish brown with reddish brown, moist, medium dense, with silt   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |   | trace gravel, reddish brown, moist, medium dense   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |   | brownish gray with dark reddish brown  |             |                          |             |                |                    |            |                   |                  |  |               |
|             |   | 5.0 <b>FAT CLAY (CH)</b> , with silt and sand, olive gray with white, moist, very stiff  | 245+/-      |                          |             |                |                    |            |                   |                  |  |               |
|             |   | 6.0 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , reddish brown, moist, medium dense   | 244+/-      |                          |             |                |                    |            |                   |                  |  |               |
|             |   | fine to coarse grained   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |   |  |             |                          |             |                |                    |            |                   |                  |  |               |
| 2           |   | 9.5 <b>FAT CLAY (CH)</b> , with silt, olive gray with reddish brown, moist, stiff  | 240.5+/-    |                          |             |                |                    |            |                   |                  |  |               |
|             |   | light bluish gray  |             |                          |             |                |                    |            |                   |                  |  |               |
|             |   | bluish gray, hard  |             |                          |             |                |                    |            |                   |                  |  |               |
|             |   | 16.3 <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , medium to coarse grained, dark bluish gray, moist, very dense  | 233.5+/-    |                          |             |                |                    |            |                   |                  |  |               |
| 3           |  | no sample recovery   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |   | wet  |             |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).



Notes:

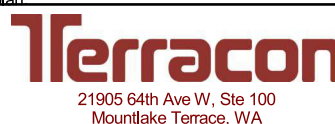
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

-  Inferred from change in sample moisture
-  Measured with water level indicator



Boring Started: 01-05-2021

Boring Completed: 01-06-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062



# BORING LOG NO. B-C09

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                                   | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6240° Longitude: -122.9029°<br><br>Approximate Surface Elev.: 250 (Ft.) +/-<br>ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|---|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|   |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
|   | 3           | <p><b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b>, medium to coarse grained, dark bluish gray, moist, very dense (<i>continued</i>) dark gray, wet</p> <p>dark bluish gray, silt content increased</p> | 30          |                          | X           | 3              | 50/6"              | S-10       | 7.9               |                  | 11            |
|   |             |  | 35          |                          | X           | 9              | 15-27-41<br>N=68   | S-11       |                   |                  |               |
|   |             |  | 35.9        | 214+/-                   |             | X              | 9                  | 40-50/5"   | S-12              |                  |               |
| <p><b>Boring Terminated at 35.92 Feet</b></p> |             |  |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

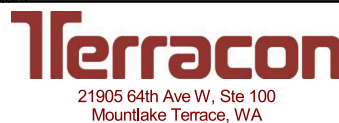
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



Boring Started: 01-05-2021

Boring Completed: 01-06-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT 8/23/21

# BORING LOG NO. B-C10

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6237° Longitude: -122.9024°<br><br>Approximate Surface Elev.: 250 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, soft<br>249.5+/-   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | <b>SANDY FAT CLAY (CH)</b> , with organics, dark brown, moist, soft<br>trace organics<br>grayish brown with orange mottling, moist<br>stiff, abundant rock fragments, blow counts might be overstated<br>247+/-                 |             |                          |             | 17             | 2-1-1-2<br>N=2     | S-0        |                   |                  |  |               |
|             |             | <b>FAT CLAY (CH)</b> , trace gravel, low to medium plasticity, olive gray with orange mottling, moist, stiff<br>244+/-  | 5           |                          |             | 8              | 2-5-6<br>N=11      | S-1        |                   |                  |  |               |
|             |             |   |             |                          |             | 7              | 4-4-7<br>N=11      | S-2        |                   |                  |  |               |
|             |             |   |             |                          |             | 10             | 3-5-8<br>N=13      | S-3        |                   |                  |  |               |
| 2           |             | <b>SANDY FAT CLAY WITH GRAVEL (CH)</b> , orangish brown, moist, stiff<br>abundant rock fragments, blow counts might be overstated<br>very stiff<br>olive gray with orange mottling, stiff, decrease in gravel content<br>237+/- | 10          |                          |             | 7              | 5-12-13<br>N=25    | S-4        |                   |                  |  |               |
|             |             |   |             |                          |             | 10             | 7-9-14<br>N=23     | S-5        |                   |                  |  |               |
|             |             |   |             |                          |             | 13             | 4-5-9<br>N=14      | S-6        |                   |                  |  |               |
|             |             | <b>FAT CLAY (CH)</b> , medium plasticity, bluish gray, moist, stiff to medium stiff<br>233+/-   | 15          |                          |             | 17             | 2-3-4<br>N=7       | S-7        | 40.2              | 68-23-45         |  |               |
| 3           |             | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , dark gray, moist to wet, very dense<br>abundant rock fragments, blow counts might be overstated<br>20  | 20          | ▽                        |             |                |                    |            |                   |                  |  |               |
|             |             |   |             |                          |             | 10             | 36-50/5"           | S-8        |                   |                  |  |               |
|             |             |   | 25          |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

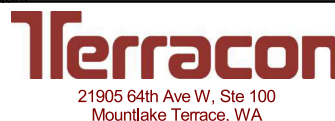
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

▽ Inferred from change in sample moisture



Boring Started: 01-05-2021

Boring Completed: 01-05-2021

Drill Rig: D-50

Driller: Holocene

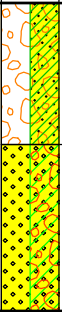
Project No.: 81215062

# BORING LOG NO. B-C10

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                           | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6237° Longitude: -122.9024°<br><br>Approximate Surface Elev.: 250 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|---------------------------------------|---|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|                                       |   |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 3                                     |  | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , dark gray, moist to wet, very dense ( <i>continued</i> ) abundant rock fragments, blow counts might be overstated<br><br>28.0 _____ 222+/-                     | 30          |                          | X           | 12             | 19-40-40/5"        | S-9        | 13.1              |                  | 8             |
|                                       |   | <b>WELL GRADED SAND WITH CLAY AND GRAVEL (SW-SC)</b> , medium to coarse grained, bluish gray to dark gray, wet, very dense<br><br>abundant rock fragments, blow counts might be overstated<br><br>31.5 _____ 218.5+/- |             |                          | X           | 7              | 10-22-50/6"        | S-10       |                   |                  |               |
| <b>Boring Terminated at 31.5 Feet</b> |   |   |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

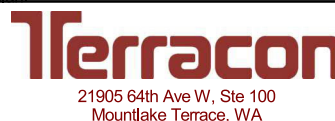
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

 Inferred from change in sample moisture



Boring Started: 01-05-2021

Boring Completed: 01-05-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21



# BORING LOG NO. B-C15

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6221° Longitude: -122.8997°<br><br>Approximate Surface Elev.: 258 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |    | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|----|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |    |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><br><b>FAT CLAY (CH)</b> , trace gravel, low to medium plasticity, gray and orange, moist, soft to medium stiff, trace organics trace organics, low to medium plasticity olive gray, stiff, sand content increasing and clay content decreasing with depth   | 257.5+/-    |                          |             | 17             | 0-1-1-1<br>N=2     | S-0        |                   |                  |    |               |
|             |             | 3.5  | 254.5+/-    |                          |             | 9              | 0-2-6<br>N=8       | S-1        |                   |                  |    |               |
| 2           |             | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , orange to orangish brown, moist, very stiff, less gravel content, rock fragments, blow counts might be over stated<br>hard, abundant rock fragments, blow counts might be overstated<br><br>stiff<br><br>very stiff, rock fragments, blow counts might be over stated<br><br>abundant rock fragments, blow counts might be over stated | 5           |                          |             | 8              | 3-6-12<br>N=18     | S-2        |                   |                  |    |               |
|             |             | 12.0   | 246+/-      |                          |             | 14             | 12-17-23<br>N=40   | S-3        | 14.0              |                  | 27 |               |
|             |             |  |             |                          |             | 13             | 1-5-6<br>N=11      | S-4        |                   |                  |    |               |
|             |             |  |             |                          |             | 13             | 1-7-12<br>N=19     | S-5        |                   |                  |    |               |
|             |             |  |             |                          |             | 12             | 5-7-12<br>N=19     | S-6        |                   |                  |    |               |
| 3           |             | <b>POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC)</b> , dark gray, wet, very dense<br><br>rock fragments, blow counts might be over stated  | 15          |                          |             | 12             | 24-29-36<br>N=65   | S-7        | 25.5              |                  | 12 |               |
|             |             | 20.3   | 237.5+/-    |                          |             | 4              | 50/4"              | S-8        |                   |                  |    |               |
|             |             | <b>Boring Terminated at 20.33 Feet</b>   |             |                          |             |                |                    |            |                   |                  |    |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

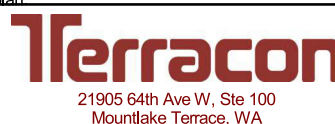
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-05-2021

Boring Completed: 01-05-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-C16

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                         | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6218° Longitude: -122.8991°<br><br>Approximate Surface Elev.: 260 (Ft.) +/-<br>ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |    | PERCENT FINES |
|-------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|----|---------------|
|                                     |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |    |               |
| 1                                   |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><br><b>FAT CLAY (CH)</b> , trace gravel, low to medium plasticity, gray with orange mottling, moist, soft, trace organics<br><br>stiff | 259.5+/-    |                          |             | 16             | 0-1-2-2<br>N=3     | S-0        |                   |                  |    |               |
|                                     |             | 3.5  | 256.5+/-    |                          |             | 6              | 1-3-6<br>N=9       | S-1        |                   |                  |    |               |
|                                     |             | <b>POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC)</b> , orange to orangish brown, moist, dense, rock fragments in sampler, blow counts might be overstated<br><br>medium dense                            | 5           |                          |             | 13             | 9-17-21<br>N=38    | S-2        | 11.6              |                  | 13 |               |
|                                     |             | 6.5  | 253.5+/-    |                          |             | 3              | 12-10-17<br>N=27   | S-3        |                   |                  |    |               |
| 2                                   |             | <b>CLAYEY SAND (SC)</b> , orangish brown to grayish brown, moist, loose, with interbedded sand<br><br>trace gravel, gravel content increasing with depth   |             |                          |             | 12             | 2-4-4<br>N=8       | S-4        |                   |                  |    |               |
|                                     |             |  |             |                          |             | 15             | 2-3-3<br>N=6       | S-5        | 32.7              |                  | 48 |               |
|                                     |             | 13.0   | 247+/-      |                          |             | 15             | 2-2-4<br>N=6       | S-6        |                   |                  |    |               |
|                                     |             | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , dark gray, wet, very dense<br><br>rock fragments in sampler, blow counts might be overstated  |             |                          |             | 6              | 22-50/6"           | S-7        |                   |                  |    |               |
| 3                                   |             | 21.0   | 239+/-      |                          |             | 3              | 31-50/6"           | S-8        |                   |                  |    |               |
| <b>Boring Terminated at 21 Feet</b> |             |  |             |                          |             |                |                    |            |                   |                  |    |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

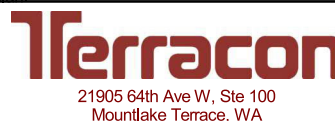
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



Boring Started: 01-05-2021

Boring Completed: 01-05-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU\_TERRACON\_DATATEMPLATE.GDT\_8/23/21



# BORING LOG NO. B-D05

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6249° Longitude: -122.9055°<br><br>Approximate Surface Elev.: 247 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.)   | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |   | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|------------------|--------------------|------------|-------------------|------------------|---|---------------|
|             |             |  |             |                          |             |                  |                    |            |                   | LL-PL-PI         |   |               |
| 3           |             | <p><b>CLAYEY GRAVEL WITH SAND (GC)</b>, bluish gray, wet, very dense (<i>continued</i>)<br/>dark gray, very dense</p>  | 28.5        |                          | 5           | 50/5"            | S-10               |            |                   |                  |   |               |
|             |             |  | 218.5+/-    |                          |             |                  |                    |            |                   |                  |   |               |
| 3           |             | <p><b>POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC)</b>, dark gray, wet, very dense<br/><br/>bluish gray</p>   | 30          |                          | 12          | 26-34-43<br>N=77 | S-11               | 12.7       |                   |                  | 8 |               |
|             |             |  | 33.5        |                          |             |                  |                    |            |                   |                  |   |               |
| 4           |             | <p><b>FAT CLAY (CH)</b>, bluish gray, wet, very stiff, homogeneous<br/><br/>with silt and sand</p>   | 35          |                          | 12          | 16-8-9<br>N=17   | S-12               |            |                   |                  |   |               |
|             |             |  | 40          |                          | 17          | 10-9-10<br>N=19  | S-13               |            |                   |                  |   |               |
|             |             |  | 45          |                          | 18          | 8-8-8<br>N=16    | S-14               |            |                   |                  |   |               |
|             |             |  | 50          |                          |             |                  |                    |            |                   |                  |   |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

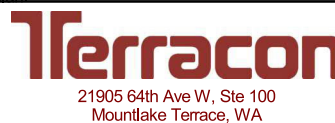
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- At 10:16 AM after completion of drilling
- At 10:21 AM after completion of drilling



Boring Started: 01-04-2021

Boring Completed: 01-04-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062



# BORING LOG NO. B-D05

**PROJECT: Proposed Industrial Park - Chehalis PWI Site**

**CLIENT: Puget Western Inc  
Bothell, WA**

**SITE: 2800 Jackson Highway  
Chehalis, WA**

| MODEL LAYER                           | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6249° Longitude: -122.9055°<br><br>Approximate Surface Elev.: 247 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|---------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|                                       |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 4                                     |             | <b>FAT CLAY (CH)</b> , bluish gray, wet, very stiff, homogeneous<br><i>(continued)</i><br>51.5 hard 195.5+/-   |             |                          | X           | 18             | 9-13-21<br>N=34    | S-15       |                   |                  |               |
| <b>Boring Terminated at 51.5 Feet</b> |             |  |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

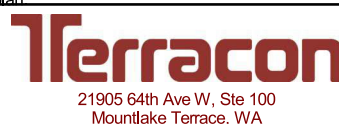
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ At 10:16 AM after completion of drilling
- ▽ At 10:21 AM after completion of drilling



Boring Started: 01-04-2021

Boring Completed: 01-04-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATATEMPLATE.GDT 8/23/21

# BORING LOG NO. B-D08

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6240° Longitude: -122.9038°<br><br>Approximate Surface Elev.: 249 (Ft.) +/-<br>ELEVATION (Ft.)   | DEPTH (Ft.)          | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.)       | FIELD TEST RESULTS  | SAMPLE NO.                           | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|----------------------|--------------------------|-------------|----------------------|---|--------------------------------------|-------------------|------------------|--|---------------|
|             |             |  |                      |                          |             |                      |   |                                      |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><br>2.5 <b>FAT CLAY WITH SAND (CH)</b> , with organics, orangish brown to grayish brown, moist, soft   | 0.5<br>2.5           |                          |             | 22                   | 0-0-2-4<br>N=2  | S-1                                  |                   |                  |  |               |
| 2           |             | 2.5 hard<br><br><b>CLAYEY SAND WITH GRAVEL (SC)</b> , with silt, reddish brown with olive grayish brown, moist, dense, stratified fine to coarse grained<br><br>medium dense<br><br>trace gravel, fine to medium grained | 2.5<br>5<br>10<br>15 |                          |             | 18<br>14<br>12<br>18 | 4-12-18<br>N=30<br><br>18-18-21<br>N=39<br><br>10-10-11<br>N=21<br><br>5-7-12<br>N=19 | S-2<br><br>S-3<br><br>S-4<br><br>S-5 |                   |                  |  |               |
|             |             | 8.5 <b>FAT CLAY (CH)</b> , olive gray, moist, hard<br><br>olive gray with reddish brown vertical striations, very stiff  | 8.5<br>10            |                          |             | 11<br>18             | 7-14-17<br>N=31<br><br>4-6-11<br>N=17   | S-6<br><br>S-7                       |                   |                  |  |               |
|             |             | bluish gray, stiff   | 15                   |                          |             |                      |   |                                      |                   |                  |  |               |
|             |             | light bluish gray, stiff   | 18.5                 |                          |             | 18                   | 4-5-9<br>N=14   | S-8A                                 | 33.3              | 62-25-37         |  |               |
|             |             | 18.5 <b>POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC)</b> , fine to coarse grained, dark bluish gray, moist, very dense  | 18.5<br>20           |                          |             | 5                    | 50/6"   | S-9                                  |                   |                  |  |               |
| 3           |             |  | 20<br>25             |                          |             |                      |   |                                      |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

Boring Started: 12-31-2020

Boring Completed: 12-31-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

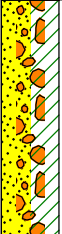

# BORING LOG NO. B-D08

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PW TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER                           | GRAPHIC LOG  | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6240° Longitude: -122.9038°<br><br>Approximate Surface Elev.: 249 (Ft.) +/-<br>ELEVATION (Ft.)                   | DEPTH (Ft.)      | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|---------------------------------------|--|--|------------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|                                       |  |  |                  |                          |             |                |                    |            |                   | LL-PL-PI         |               |
|                                       |  |  |                  |                          |             | 0              | 50/3"              | S-10       |                   |                  |               |
| 3                                     |   | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , coarse grained, bluish gray to dark gray, wet, very dense, rock fragments in sampler, blow counts might be overstated | 28.5<br>220.5+/- | 30                       |             |                |                    |            |                   |                  |               |
|                                       |  |  |                  |                          | X           | 14             | 23-39-41<br>N=80   | S-11       | 17.3              |                  |               |
| 4                                     |  | <b>FAT CLAY (CH)</b> , with silt, bluish gray, wet, very stiff   | 33.5<br>215.5+/- | 35                       |             |                |                    |            |                   |                  |               |
|                                       |  |  |                  |                          | X           | 18             | 6-8-14<br>N=22     | S-12       |                   |                  |               |
| <b>Boring Terminated at 36.5 Feet</b> |  |  |                  |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

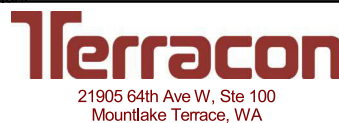
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



Boring Started: 12-31-2020

Boring Completed: 12-31-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-D11

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6231° Longitude: -122.9022°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |  |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|--|
|             |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |  |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft 251.5+/-   |             |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | <b>FAT CLAY (CH)</b> , with organics, orangish brown with gray, moist, very soft  |             |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | trace sand, orangish brown to grayish brown, very stiff with silt, reddish brown with orangish brown, moist, stratified, increased sand content, transitions to clayey sand with gravel                           |             |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | 3.5 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , with clay, reddish brown, moist, medium dense, stratified interbedded with olive brownish gray clay layer at 4.2 ft bgs brownish gray with olive brownish gray 248.5+/- |             |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | 6.5 <b>FAT CLAY (CH)</b> , with silt and sand, olive brownish gray with reddish brown, moist, stiff 245.5+/-  |             |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | reddish brown striations  |             |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | olive gray with bluish gray, transitions to fat clay trace sand, reddish brown with olive brownish gray, very stiff   |             |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | 13.5 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , with silt, reddish brown with olive brownish gray, wet, dense, stratified interbedded with fine sand 238.5+/-  |             |                          |             |                |                    |            |                   |                  |  |               |  |
| 2           |             | 18.5 hard drilling at 18 ft 233.5+/-  |             |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , bluish gray to dark gray, wet, very dense  |             |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | 15 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , with silt, reddish brown with olive brownish gray, wet, dense, stratified interbedded with fine sand 238.5+/-  |             |                          |             |                |                    |            |                   |                  |  |               |  |
| 3           |             | 18.5 hard drilling at 18 ft 233.5+/-  |             |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , bluish gray to dark gray, wet, very dense  |             |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             |   | 5           |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             |   | 10          |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             |   | 15          |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             |   | 20          |                          |             |                |                    |            |                   |                  |  |               |  |
|             |             |   | 25          |                          |             |                |                    |            |                   |                  |  |               |  |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Inferred from change in sample moisture

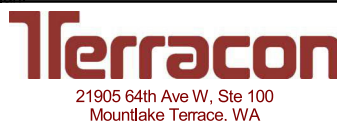
Boring Started: 12-31-2020

Boring Completed: 12-31-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062



# BORING LOG NO. B-D11

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                           | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6231° Longitude: -122.9022°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>ELEVATION (Ft.)       | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|---------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|                                       |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 3                                     |             | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , bluish gray to dark gray, wet, very dense<br><i>(continued)</i><br>fine to coarse grained, dark gray, dense | 28.5        |                          | X           | 13             | 15-17-14<br>N=31   | S-10       |                   |                  |               |
| 4                                     |             | <b>FAT CLAY (CH)</b> , light bluish gray, wet, stiff   | 31.5        | 30                       | X           | 11             | 4-4-6<br>N=10      | S-11       |                   |                  |               |
| <b>Boring Terminated at 31.5 Feet</b> |             |  |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

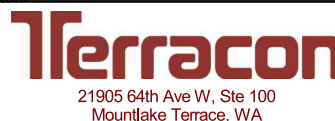
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Inferred from change in sample moisture



Boring Started: 12-31-2020

Boring Completed: 12-31-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.GPJ TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-D12

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6227° Longitude: -122.9017°<br><br>Approximate Surface Elev.: 254 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><b>FAT CLAY (CH)</b> , trace organics, orangish red with gray, moist, very soft   | 253.5+/-    |                          |             | 18             | 0-0-1-2<br>N=1     | S-1        |                   |                  |  |               |
|             |             | 2.5 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , reddish brown, moist, dense medium dense  | 251.5+/-    |                          |             | 18             | 6-19-21<br>N=40    | S-2        |                   |                  |  |               |
|             |             | 5.0 <b>LEAN CLAY (CL)</b> , trace sand, olive gray, moist, very stiff   | 249+/-      |                          |             | 14             | 13-13-13<br>N=26   | S-3        |                   |                  |  |               |
| 2           |             | interbedded with 3-inches thick reddish brown silty sand with gravel at 6.5 ft<br>trace gravel, olive grayish brown with reddish brown, moist increased sand content observed<br><br>with sand, olive grayish brown, interbedded with sand layers |             | 5                        |             | 16             | 3-6-9<br>N=15      | S-4        | 20.6              | 41-16-25         |  |               |
|             |             |   |             | 10                       |             | 13             | 14-17-11<br>N=28   | S-5        |                   |                  |  |               |
|             |             |   |             |                          |             | 17             | 11-10-9<br>N=19    | S-6        |                   |                  |  |               |
|             |             |   |             |                          |             | 18             | 3-8-10<br>N=18     | S-7        |                   |                  |  |               |
|             |             | 13.5 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , fine to coarse grained, dark gray with brown, wet, very dense  | 240.5+/-    | 15                       |             |                |                    |            |                   |                  |  |               |
|             |             |   |             |                          |             | 12             | 18-35-38<br>N=73   | S-8        |                   |                  |  |               |
| 3           |             | 18.5 <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , dark gray, wet, very dense<br><br>rock fragements in sampler, blow counts might be overstated   | 235.5+/-    | 20                       |             |                |                    |            |                   |                  |  |               |
|             |             |   |             |                          |             | 10             | 22-50/5"           | S-9        |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

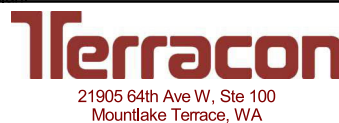
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



Boring Started: 12-31-2020

Boring Completed: 12-31-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-D12

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6227° Longitude: -122.9017°<br><br>Approximate Surface Elev.: 254 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 3           |             | 25.4 dark gray with brown, very dense<br><b>Boring Terminated at 25.42 Feet</b>  | 228.5+/-    |                          | X           | 5              | 50/5"              | S-10       |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

Boring Started: 12-31-2020

Boring Completed: 12-31-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATATEMPLATE.GDT 8/23/21

# BORING LOG NO. B-D14

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6221° Longitude: -122.9006°<br><br>Approximate Surface Elev.: 256 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO.       | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |                  |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br>255.5+/-   |             |                          |             | 17             | 0-3-3-3<br>N=6     | S-1              |                   |                  |  |               |
| 2           |             | 2.0 <b>SANDY FAT CLAY (CH)</b> , with organics, dark brown, moist, medium stiff<br>254+/-  |             |                          |             | 17             | 7-9-12<br>N=21     | S-2              |                   |                  |  |               |
|             |             | trace gravel, fine grained, light brown to orange, moist   |             |                          |             | 17             | 2-4-10<br>N=14     | S-3              |                   |                  |  |               |
|             |             | fine to medium grained, moist  |             | 5                        |             |                | 17                 | 10-12-14<br>N=26 | S-4               |                  |  |               |
|             |             | 6.5 <b>LEAN CLAY WITH GRAVEL (CL)</b> , light brown, moist, very stiff<br>249.5+/-   |             |                          |             |                | 2                  | 11-13-11<br>N=24 | S-5               |                  |  |               |
| 3           |             | 8.0 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , medium grained, gray, moist, medium dense, embedded clay layer<br>248+/-   |             |                          |             | 16             | 5-9-15<br>N=24     | S-6              |                   |                  |  |               |
|             |             | fine grained, light brown, dense   |             | 10                       |             | 17             | 13-15-20<br>N=35   | S-7              |                   |                  |  |               |
|             |             | orangish brown, very dense   |             | 15                       |             |                | 14                 | 11-29-40<br>N=69 | S-8               |                  |  |               |
|             |             | gray, rock in tip  |             | 20                       |             | 6              | 25-31-35<br>N=66   | S-9              |                   |                  |  |               |
|             |             | <b>Boring Terminated at 21.5 Feet</b>  |             |                          |             |                |                    |                  |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

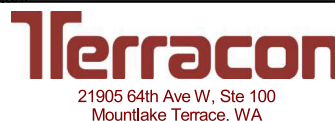
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Measured with water level indicator



Boring Started: 12-28-2020

Boring Completed: 12-28-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062



# BORING LOG NO. B-D15

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6218° Longitude: -122.9000°<br>Approximate Surface Elev.: 257.5 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)    | DEPTH (Ft.)          | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |    | PERCENT FINES |
|-------------|-------------|---|----------------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|----|---------------|
|             |             |   |                      |                          |             |                |                    |            |                   | LL-PL-PI         |    |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, very soft<br><b>SANDY LEAN CLAY (CL)</b> , trace organics, dark brown, moist, medium stiff to stiff                 | 257+/-               |                          |             | 20             | 0-4-4-4<br>N=8     | S-1        |                   |                  |    |               |
|             |             | 2.0 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , coarse to medium grained, light brown to orange brown, moist, dense   | 255.5+/-             |                          |             | 14             | 7-18-21<br>N=39    | S-2        | 15.4              | 38-18-20         | 24 |               |
|             |             | medium dense  |                      | 5                        |             | 13             | 6-16-21<br>N=37    | S-3        | 13.4              | 33-17-16         | 14 |               |
|             |             | no gravel   |                      |                          |             | 15             | 6-20-18<br>N=38    | S-4        |                   |                  |    |               |
|             |             | with gravel   |                      |                          |             | 15             | 4-6-6<br>N=12      | S-5        |                   |                  |    |               |
|             |             | very dense, no sample recovery  |                      |                          |             | 18             | 4-4-11<br>N=15     | S-6        | 30.0              | 41-20-21         | 40 |               |
|             |             |   |                      |                          |             | 16             | 7-10-14<br>N=24    | S-7        |                   |                  |    |               |
|             |             |   |                      |                          |             | 0              | 50/1"              | S-8        |                   |                  |    |               |
| 4           |             | 20.0 <b>WELL GRADED SAND WITH GRAVEL (SW)</b> , coarse to medium grained, brown to blackish brown, moist, very dense<br>20.8 <b>Boring Terminated at 20.83 Feet</b> | 237.5+/-<br>236.5+/- |                          |             | 10             | 30-50/4"           | S-9        |                   |                  |    |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

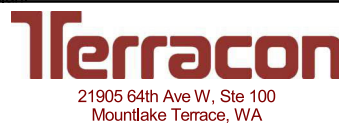
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

Measured with water level indicator



Boring Started: 12-28-2020

Boring Completed: 12-28-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-D16

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER                           | GRAPHIC LOG                             | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6215° Longitude: -122.8995°<br><br>Approximate Surface Elev.: 259 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|---------------------------------------|---|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|                                       |   |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1                                     |   | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br>258.5+/-  |             |                          |             |                | 0-4-4-4<br>N=8     | S-1        |                   |                  |  |               |
|                                       |   | <b>CLAYEY SAND (SC)</b> , trace organics, fine grained, brown, moist, soft<br><br>trace gravel, fine grained, light brown to orange brown, moist, medium dense<br><br>dense, increasing sand content and broken rock stuck in tip |             |                          |             |                | 3-4-11<br>N=15     | S-2        |                   |                  |  |               |
|                                       |   | 5.0 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , fine to medium grained, light brown to orange, moist, dense<br>254+/-   | 5           |                          |             |                | 7-11-24<br>N=35    | S-3        |                   |                  |  |               |
|                                       |   | trace coarse sand   |             |                          |             |                | 15-16-19<br>N=35   | S-4        |                   |                  |  |               |
| 2                                     |   | 8.0 <b>CLAYEY SAND (SC)</b> , trace gravel, fine grained, brown to orange brown, moist, loose<br>251+/-   |             |                          | ▽           |                | 12-24-10<br>N=34   | S-5        |                   |                  |  |               |
|                                       |   | medium dense, interbedded with 4-inches of sand lenses at center  |             |                          |             |                | 3-3-5<br>N=8       | S-6        |                   |                  |  |               |
|                                       |   | 15.0 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , fine to medium grained, orange brown, very dense<br>244+/-   | 15          |                          |             |                | 4-5-12<br>N=17     | S-7        |                   |                  |  |               |
|                                       |   | hard drilling at 17 ft  |             |                          |             |                | 19-50/6"           | S-8        |                   |                  |  |               |
| 3                                     |   | 20.0 <b>POORLY GRADED SAND WITH GRAVEL (SP)</b> , fine to medium grained, dark brown to blackish brown, wet, very dense<br>239+/-   | 20          |                          |             |                |                    |            |                   |                  |  |               |
|                                       | 21.3 fine to coarse grained<br>237.5+/- | 21.3  |             |                          |             | 26-40-50/3"    | S-9                |            |                   |                  |  |               |
| <b>Boring Terminated at 21.3 Feet</b> |   |   |             |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

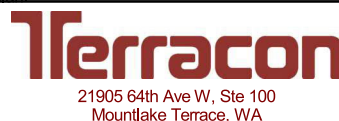
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

▽ Measured with water level indicator



Boring Started: 12-28-2020

Boring Completed: 12-28-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-E07

**PROJECT: Proposed Industrial Park - Chehalis PWI Site**

**CLIENT: Puget Western Inc  
Bothell, WA**

**SITE: 2800 Jackson Highway  
Chehalis, WA**

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6240° Longitude: -122.9047°<br>Approximate Surface Elev.: 248.5 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO.       | WATER CONTENT (%) | ATTERBERG LIMITS |    | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------------|-------------------|------------------|----|---------------|
|             |             |   |             |                          |             |                |                    |                  |                   | LL-PL-PI         |    |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><b>SANDY FAT CLAY (CH)</b> , dark brown to olive brownish gray, moist, very soft, stratified<br>with silt, olive brownish gray to reddish brown, very stiff | 248+/-      |                          |             | 24             | 0-0-0-0<br>N=0     | S-1              |                   |                  |    |               |
| 2           |             | 3.5 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , dark brown with reddish brown, moist, dense, stratified   | 245+/-      |                          |             | 18             | 4-8-10<br>N=18     | S-2              | 31.5              |                  | 52 |               |
|             |             | 5.0 <b>FAT CLAY (CH)</b> , bluish gray and reddish brown, moist, very stiff   | 243.5+/-    | 5                        |             |                | 8                  | 10-19-16<br>N=35 |                   | S-3              |    |               |
|             |             | 6.5 <b>CLAYEY SAND (SC)</b> , with silt, fine to medium grained, reddish brown with olive brownish gray, moist, medium dense  | 242+/-      |                          |             |                | 10-6-13<br>N=19    | S-4              |                   |                  |    |               |
|             |             | 8.0 <b>FAT CLAY (CH)</b> , olive gray with reddish brown vertical striations, moist, stiff<br>wet, black striations   | 240.5+/-    |                          |             |                | 18                 | 4-5-5<br>N=10    | S-5               |                  |    |               |
|             |             | <b>FAT CLAY (CH)</b> , olive gray with reddish brown vertical striations, moist, stiff<br>wet, black striations   |             | 10                       |             |                | 3-6-9<br>N=15      | S-6              |                   |                  |    |               |
|             |             | bluish gray with reddish brown striations, wet, medium stiff  |             |                          |             |                | 5-6-8<br>N=14      | S-7              |                   |                  |    |               |
|             |             |   |             | 15                       |             |                | 6-3-2<br>N=5       | S-8              |                   |                  |    |               |
| 3           |             | 18.5 <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , dark gray with olive grayish brown, moist, very dense   | 230+/-      |                          |             |                |                    |                  |                   |                  |    |               |
|             |             |   |             | 20                       |             |                | 4                  | 50/6"            | S-9               |                  |    |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

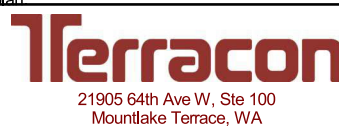
See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

At 8:47 AM after completion of drilling

At 8:51 AM after completion of drilling



Boring Started: 12-30-2020

Boring Completed: 12-31-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062



# BORING LOG NO. B-E08A

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6237° Longitude: -122.9042°<br><br>Approximate Surface Elev.: 249.5 (Ft.) +/-<br>ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br>249+/-   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | <b>FAT CLAY WITH SAND (CH)</b> , with organics, olive grayish brown with reddish brown, moist, very soft<br>247.5+/-   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , trace organics, grayish brown to reddish brown, moist, medium dense, stratified<br>dense, gravel content increased, transitions to Clayey Gravel with Sand<br><br>Refer B-E08B for blowcounts at 6.5 ft, transitions to Clayey Sand with Gravel<br><br>reddish brown with dark brown, observed increased fines content<br>241.5+/- | 5           |                          |             |                |                    |            |                   |                  |  | 18            |
|             |             | <b>FAT CLAY (CH)</b> , with sand, olive grayish brown with reddish brown striations, moist, stiff<br>Refer B-E08B for blowcounts at 8 ft<br>240+/-   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | <b>SANDY FAT CLAY (CH)</b> , olive grayish brown with reddish brown, moist, stiff<br>236+/-  |             |                          |             |                |                    |            |                   |                  |  |               |
| 2           |             | 13.5 <b>FAT CLAY (CH)</b> , bluish gray, moist, hard<br><br>with sand and gravel, rock fragments in sampler, blowcounts might be overstated<br>231+/-  | 15          |                          |             |                |                    |            |                   |                  |  |               |
|             |             | <b>POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC)</b> , dark gray, moist, dense<br><br>drilling was hard at 21.5 ft<br><br>Auger refusal at 24 ft, moved 5 ft in west direction to continue drilling and boring marked as B-E08B<br>225.5+/-  | 20          |                          |             |                |                    |            |                   |                  |  |               |
|             |             | <b>Auger Refusal at 24 Feet</b>  |             |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**  
Water level not determined

21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

|                            |                              |
|----------------------------|------------------------------|
| Boring Started: 12-30-2020 | Boring Completed: 12-30-2020 |
| Drill Rig: D-70            | Driller: Holocene            |
| Project No.: 81215062      |                              |

# BORING LOG NO. B-E08B

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6237° Longitude: -122.9042°<br><br>Approximate Surface Elev.: 249.5 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)                  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | ATTERBERG LIMITS  |          | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|----------|---------------|
|             |             |   |             |                          |             |                |                    |            | WATER CONTENT (%) | LL-PL-PI |               |
|             |             | Refer B-08A for blowcounts and soil component lithology   |             |                          |             |                |                    |            |                   |          |               |
| 2           |             | 5.0 244.5+/-<br><b>CLAYEY SAND WITH GRAVEL (SC)</b> , with gravel, dark reddish brown, moist, medium dense<br>6.5 243+/-<br>trace gravel, with clay                                   | 5           |                          | X           | 11             | 8-11-10<br>N=21    | S-4        |                   |          |               |
|             |             | Refer B-08A for blowcounts and soil component lithology   |             |                          |             |                |                    |            |                   |          |               |
|             |             | 8.0 241.5+/-<br><b>FAT CLAY (CH)</b> , with silt and sand, olive grayish brown with reddish brown, moist, stiff   |             |                          | X           | 18             | 2-5-5<br>N=10      | S-6        |                   |          |               |
|             |             | Refer B-08A for blowcounts and soil component lithology   |             |                          |             |                |                    |            |                   |          |               |
|             |             | Refer B-08A for blowcounts and soil component lithology   |             |                          |             |                |                    |            |                   |          |               |
|             |             | 20.0 229.5+/-<br><b>POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC)</b> , dark brown with grayish brown, moist, very dense, rock fragments in sampler, blowcounts might be overstated | 20          |                          | X           | 9              | 28-50/6"           | S-9        | 12.7              |          | 5             |
| 3           |             | drilling was hard at 24 ft  | 25          |                          |             |                |                    |            |                   |          |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Water rose to the surface in the borehole after completion of drilling

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- At completion of drilling



21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

Boring Started: 12-30-2020

Boring Completed: 12-30-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-E08B

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PUJ\_TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6237° Longitude: -122.9042°<br><br>Approximate Surface Elev.: 249.5 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 3           |             | <b>POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC)</b> , dark brown with grayish brown, moist, very dense, rock fragments in sampler, blowcounts might be overstated ( <i>continued</i> )<br>gray to bluish gray, wet rock fragments in sampler, blowcounts might be overstated | 28.5        |                          | X           | 6              | 38-50/6"           | S-10       |                   |                  |  |               |
| 4           |             | <b>FAT CLAY (CH)</b> , light bluish gray, wet, stiff<br><br>very stiff  | 36.5        | 30                       | X           | 16             | 6-7-8<br>N=15      | S-11       |                   |                  |  |               |
|             |             | <b>Boring Terminated at 36.5 Feet</b>   | 213+/-      | 35                       | X           | 18             | 7-10-18<br>N=28    | S-12       |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

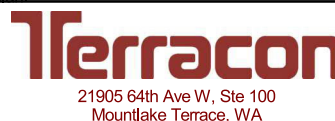
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- At completion of drilling



Boring Started: 12-30-2020

Boring Completed: 12-30-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-E11

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6227° Longitude: -122.9026°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><br><b>FAT CLAY (CH)</b> , with organics, dark brown with orangish brown, moist, soft, stratified<br><br>with sand, olive gray with orangish brown, hard<br><br>trace organics, very stiff | 251.5+/-    |                          |             | 19             | 0-0-2-3<br>N=2     | S-1        |                   |                  |  |               |
|             |             | 5.5 dark reddish brown, interbedded with 6 inches of clayey sand with gravel at 5 ft bgs<br><b>LEAN CLAY (CL)</b> , with sand, gray, moist, very stiff<br>olive gray with reddish brown, medium stiff  | 246.5+/-    |                          |             | 15             | 3-16-19<br>N=35    | S-2        |                   |                  |  |               |
|             |             | 8.5 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , fine to coarse grained, reddish brown to dark brown, wet, dense, stratified<br>olive brownish gray with reddish brown striations, medium dense   | 243.5+/-    | ▽                        |             | 9              | 2-15-11<br>N=26    | S-3        |                   |                  |  |               |
|             |             | 13.5 <b>FAT CLAY (CH)</b> , bluish gray with orangish brown, wet, stiff  | 238.5+/-    |                          |             | 8              | 5-9-9<br>N=18      | S-4        | 30.9              | 38-18-20         |  |               |
|             |             | 18.5 <b>CLAYEY GRAVEL WITH SAND (GC)</b> , dark bluish gray to dark gray, wet, very dense<br><br>rock fragments in sampler, blowcounts might be overstated   | 233.5+/-    | ▽                        |             | 18             | 3-3-4<br>N=7       | S-5        |                   |                  |  |               |
|             |             |  |             |                          |             | 18             | 15-16-15<br>N=31   | S-6        |                   |                  |  |               |
|             |             |  |             |                          |             | 12             | 3-11-11<br>N=22    | S-7        |                   |                  |  |               |
|             |             |  |             |                          |             | 18             | 3-5-7<br>N=12      | S-8        |                   |                  |  |               |
|             |             |  |             |                          |             | 6              | 50/6"              | S-9        |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

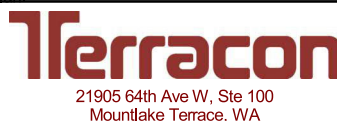
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 12-30-2020

Boring Completed: 12-30-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062



# BORING LOG NO. B-E11

**PROJECT: Proposed Industrial Park - Chehalis PWI Site**

**CLIENT: Puget Western Inc  
Bothell, WA**

**SITE: 2800 Jackson Highway  
Chehalis, WA**

| MODEL LAYER                           | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6227° Longitude: -122.9026°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | ATTERBERG LIMITS  |          | PERCENT FINES |
|---------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|----------|---------------|
|                                       |             |  |             |                          |             |                |                    |            | WATER CONTENT (%) | LL-PL-PI |               |
| 3                                     |             | <p><b>CLAYEY GRAVEL WITH SAND (GC)</b>, dark bluish gray to dark gray, wet, very dense (<i>continued</i>) very dense, no sample recovery, rock fragments in sampler, blowcounts might be overstated</p> <p>dark gray, stratified</p> | 30          |                          |             | 0              | 50/2"              | S-10       |                   |          |               |
|                                       |             | 31.5   | 220.5+/-    |                          | X           | 10             | 11-31-25<br>N=56   | S-11       | 10.4              |          | 14            |
| <b>Boring Terminated at 31.5 Feet</b> |             |  |             |                          |             |                |                    |            |                   |          |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

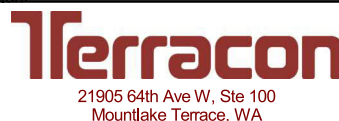
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture*
- Measured with water level indicator*



Boring Started: 12-30-2020

Boring Completed: 12-30-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-E13A

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6221° Longitude: -122.9015°<br><br>Approximate Surface Elev.: 255 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)       | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 1           | 0.5         | <b>TOPSOIL</b> , with organics, dark brown, very soft  | 254.5+/-    |                          | X           | 17             | 1-1-2-3<br>N=3     | S-1        |                   |                  |               |
| 2           | 2.0         | <b>FAT CLAY WITH SAND (CH)</b> , with organics, tannish brown to orangish brown, moist, soft   | 253+/-      |                          | X           | 15             | 1-3-5-9<br>N=8     | S-2        |                   |                  |               |
|             | 4.0         | Shelby tube was pushed at 3.5 ft bgs, but the sampler broke and borehole was abandoned. Moved over one foot to restart the boring.<br><b>Boring Terminated at 4 Feet</b> | 251+/-      |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Mud Rotary

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:  
bgs - below ground surface

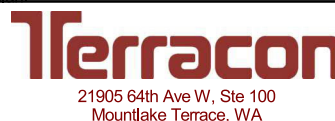
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

*Water level not determined, due to use of Mud Rotary Method*



Boring Started: 12-21-2020

Boring Completed: 12-21-2020

Drill Rig: CME-850

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

# BORING LOG NO. B-E13B

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6221° Longitude: -122.9015°<br><br>Approximate Surface Elev.: 255 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><b>FAT CLAY WITH SAND (CH)</b> , with organics, brown to tannish brown, moist, very soft   | 254.5+/-    |                          |             | 24             | 0-0-0-0<br>N=0     | S-1        |                   |                  |  |               |
|             |             | 2.0 <b>FAT CLAY (CH)</b> , tannish brown, moist, soft  | 253+/-      |                          |             | 30             |                    | S-2        |                   |                  |  |               |
| 2           |             | 4.7 <b>CLAYEY SAND (SC)</b> , brown to reddish brown, moist, dense, stratified<br>dark brown with reddish brown, interbedded with dark brown gravel layer<br>reddish brown<br>very dense, stratified<br>medium dense | 250.5+/-    | 5                        |             | 12             | 9-15-28<br>N=43    | S-3        |                   |                  |  |               |
|             |             | 9.5 <b>FAT CLAY (CH)</b> , olive gray with reddish brown striations, moist, very stiff   | 245.5+/-    | 10                       |             | 17             | 13-27-32<br>N=59   | S-4        | 19.4              |                  |  | 18            |
|             |             | 13.5 <b>FAT CLAY (CH)</b> , olive gray with reddish brown striations, moist, very stiff  | 241.5+/-    |                          |             | 18             | 12-12-12<br>N=24   | S-5        |                   |                  |  |               |
|             |             | 13.5 <b>CLAYEY GRAVEL WITH SAND (GC)</b> , with clay, brown to dark brown, moist, very dense, rock fragments in sampler, blowcounts might be overstated  | 241.5+/-    | 15                       |             | 18             | 5-7-9<br>N=16      | S-6        |                   |                  |  |               |
| 3           |             | 23.5 fine to medium grained, reddish brown to brown  | 231.5+/-    | 20                       |             | 10             | 19-31-50/5"        | S-7        | 16.5              |                  |  | 10            |
|             |             |  |             | 25                       |             | 16             | 7-35-50/6"         | S-8        |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Mud Rotary

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Water level not determined, due to use of Mud Rotary Method



21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

Boring Started: 12-21-2020

Boring Completed: 12-21-2020

Drill Rig: CME-850

Driller: Holocene


Project No.: 81215062

# BORING LOG NO. B-E13B

**PROJECT: Proposed Industrial Park - Chehalis PWI Site**

**CLIENT: Puget Western Inc  
Bothell, WA**

**SITE: 2800 Jackson Highway  
Chehalis, WA**

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6221° Longitude: -122.9015°<br><br>Approximate Surface Elev.: 255 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|-------------|---|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|             |   |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 3           |  | <p><b>POORLY GRADED GRAVEL WITH CLAY AND SAND (GP-GC)</b>, fine to coarse grained, brown to gray, very dense, rock fragments in sampler, blowcounts might be overstated (<i>continued</i>)<br/>drilling was hard at 25 ft</p> <p>Drill bit broken at 30 feet, abandoning borehole. Refer B-E13C for further depths.</p> | 30          |                          | X           | 12             | 22-42-50/5"        | S-9        |                   |                  |               |
|             |   | <p><b>Boring Terminated at 30 Feet</b></p>  |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Mud Rotary

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

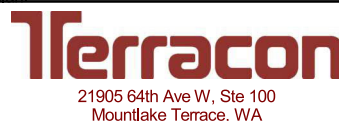
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

*Water level not determined, due to use of Mud Rotary Method*



Boring Started: 12-21-2020

Boring Completed: 12-21-2020

Drill Rig: CME-850

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21



# BORING LOG NO. B-E13C

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6221° Longitude: -122.9015°<br><br>Approximate Surface Elev.: 255 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
|             |             | Refer B-E13A and B-E13B for depths above 30 feet<br><i>(continued)</i>   |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | 30.0 225+/-  | 30          |                          | X           | 9              | 48-50/4"           | S-10       | 13.4              |                  |  | 9             |
|             | 3           | <b>CLAYEY GRAVEL WITH SAND (GC)</b> , olive gray to dark gray, moist, very dense, rock fragments in sampler, blowcounts might be overstated                        |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | 33.5 221.5+/-  | 35          |                          | X           | 12             | 28-50/6"           | S-11       |                   |                  |  |               |
|             |             | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , fine to coarse grained, light bluish gray, moist, very dense  |             |                          |             |                |                    |            |                   |                  |  |               |
|             |             | 38.5 216.5+/-  | 40          |                          | X           | 18             | 7-9-17<br>N=26     | S-12       | 35.9              | 45-26-19         |  |               |
|             |             | <b>FAT CLAY (CH)</b> , with clay, very stiff   |             |                          |             |                |                    |            |                   |                  |  |               |
|             | 4           | hard   | 45          |                          | X           | 18             | 7-14-32<br>N=46    | S-13       |                   |                  |  |               |
|             |             |  | 50          |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Mud Rotary

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Water level not determined, due to use of Mud Rotary Method



21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

Boring Started: 12-21-2020

Boring Completed: 12-22-2020

Drill Rig: CME-850

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-E13C

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6221° Longitude: -122.9015°<br><br>Approximate Surface Elev.: 255 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)    | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 4           |             | <b>FAT CLAY (CH)</b> , with clay, very stiff ( <i>continued</i> )<br>very stiff   |             |                          | X           | 18             | 10-13-16<br>N=29   | S-14       |                   |                  |  |               |
| 3           |             | <b>POORLY GRADED SAND (SP)</b> , dark gray with bluish tint,<br>moist, very dense   | 55          |                          | X           | 16             | 15-27-37<br>N=64   | S-15       | 26.7              |                  |  | 9             |
| 4           |             | <b>FAT CLAY (CH)</b> , bluish gray, moist, very stiff   | 60          |                          | X           | 18             | 7-12-17<br>N=29    | S-16       |                   |                  |  |               |
| 4           |             | interbedded with fine sand layer, increased sand content at<br>bottom of sample   | 65          |                          | X           | 18             | 8-12-16<br>N=28    | S-17       |                   |                  |  |               |
| 3           |             | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , medium to coarse grained, dark bluish gray,<br>moist, very dense, interbedded with silt layer at 70.2 ft bgs | 70          |                          | X           | 12             | 25-50/6"           | S-18       |                   |                  |  |               |
| 4           |             | <b>FAT CLAY (CH)</b> , dark bluish gray, moist, hard  | 75          |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Mud Rotary

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:  
bgs - below ground surface

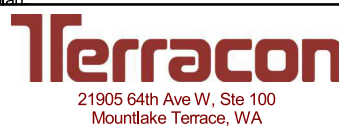
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Water level not determined, due to use of Mud Rotary Method



Boring Started: 12-21-2020

Boring Completed: 12-22-2020

Drill Rig: CME-850

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-E13C

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG               | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6221° Longitude: -122.9015°<br><br>Approximate Surface Elev.: 255 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.)  | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|-------------|---------------------------|--|-------------|--------------------------|-------------|-----------------|--------------------|------------|-------------------|------------------|---------------|
|             |                           |  |             |                          |             |                 |                    |            |                   | LL-PL-PI         |               |
| 4           | [Green Diagonal Hatching] | <b>FAT CLAY (CH)</b> , dark bluish gray, moist, hard ( <i>continued</i> )<br>hard, organics were found at 75.5 ft bgs and 76 ft bgs                          | 80          |                          | X           | 17              | 8-11-19<br>N=30    | S-19       |                   | 63-26-37         |               |
|             |                           | light bluish gray  |             |                          |             |                 |                    |            |                   |                  |               |
|             |                           | 85   |             | X                        | 18          | 8-14-16<br>N=30 | S-20               |            |                   |                  |               |
|             |                           | 90   | bluish gray |                          | X           | 18              | 8-15-17<br>N=32    | S-21       | 34.2              | 70-24-46         |               |
|             |                           | 93.5   |             | 161.5+/-                 |             |                 |                    |            |                   |                  |               |
|             |                           | <b>FAT CLAY (CH)</b> , gray, moist, very stiff   | 95          |                          | X           | 18              | 7-10-17<br>N=27    | S-23       | 51.6              | 86-31-55         |               |
|             |                           |  | 100         |                          |             |                 |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Mud Rotary

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

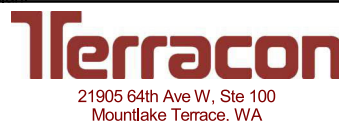
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

*Water level not determined, due to use of Mud Rotary Method*



Boring Started: 12-21-2020

Boring Completed: 12-22-2020

Drill Rig: CME-850

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21



# BORING LOG NO. B-E13C

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                            | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6221° Longitude: -122.9015°<br><br>Approximate Surface Elev.: 255 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|--|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|  |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 4                                      |             | <b>FAT CLAY (CH)</b> , gray, moist, very stiff ( <i>continued</i> )<br>bluish gray, very stiff<br>101.5 153.5+/-   |             |                          | X           | 18             | 9-12-16<br>N=28    | S-24       |                   |                  |               |
| <b>Boring Terminated at 101.5 Feet</b> |             |  |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Mud Rotary

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

*Water level not determined, due to use of Mud Rotary Method*



Boring Started: 12-21-2020

Boring Completed: 12-22-2020

Drill Rig: CME-850

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATATEMPLATE.GDT 8/23/21

# BORING LOG NO. B-E14

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6218° Longitude: -122.9010°<br><br>Approximate Surface Elev.: 256.5 (Ft.) +/-<br>ELEVATION (Ft.)       | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           | 0.5         | <b>TOPSOIL</b> , with organics, dark brown, moist, soft  | 256+/-      |                          |             | 18             | 2-3-3-3<br>N=6     | S-1        |                   |                  |  |               |
|             | 2.0         | <b>FAT CLAY WITH SAND (CH)</b> , with organics, orangish brown to brown, moist, medium stiff   | 254.5+/-    |                          |             | 14             | 10-14-13<br>N=27   | S-2        |                   |                  |  |               |
|             |             | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , fine to medium grained, reddish brown, moist, medium dense, stratified   |             |                          |             | 17             | 10-5-8<br>N=13     | S-3        |                   |                  |  |               |
|             |             | with 6-inches of soft gray clay 4.5 ft with clay, reddish brown with olive gray, wet, medium dense, stratified   |             | 5                        | ▽           | 18             | 11-11-15<br>N=26   | S-4        |                   |                  |  |               |
| 2           |             | very dense, no sample recovery   |             |                          |             | 0              | 13-19-37           | S-5        |                   |                  |  |               |
|             |             | fine to coarse grained, reddish brown with olive brown, dense  |             |                          |             | 18             | 19-18-19<br>N=37   | S-6        |                   |                  |  |               |
|             |             | medium dense   |             |                          |             | 17             | 11-11-7<br>N=18    | S-7        |                   |                  |  |               |
|             | 13.5        | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , dark reddish brown to dark gray, wet, very dense, rock fragments in sampler, blowcounts might be overstated | 243+/-      |                          |             | 1              | 50/6"              | S-8        |                   |                  |  |               |
| 3           |             |  |             |                          |             |                |                    |            |                   |                  |  |               |
|             | 21.0        | <b>Boring Terminated at 21 Feet</b>  | 235.5+/-    |                          |             | 10             | 14-50/6"           | S-9        |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

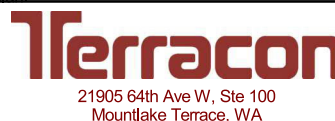
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-11-2021

Boring Completed: 01-11-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21



# BORING LOG NO. B-P04

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6270° Longitude: -122.9052°<br><br>Approximate Surface Elev.: 248 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO.      | ATTERBERG LIMITS  |          | PERCENT FINES |  |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|-----------------|-------------------|----------|---------------|--|
|             |             |  |             |                          |             |                |                    |                 | WATER CONTENT (%) | LL-PL-PI |               |  |
| 4           |             | <b>FAT CLAY (CH)</b> , dark bluish gray, wet, very stiff<br>(continued)  | 21.5+/-     |                          | X           | 11             | 10-12-8<br>N=20    | S-10            | 40.3              | 60-31-29 |               |  |
|             |             | trace wood debris at 30.2 ft   | 30          | ▽                        |             |                |                    |                 |                   |          |               |  |
|             |             | trace silt   | 35          |                          | X           | 18             | 9-12-14<br>N=26    | S-11            |                   |          |               |  |
|             |             | 36.5   | 36.5        | 211.5+/-                 |             | X              | 18                 | 11-9-15<br>N=24 | S-12              |          |               |  |
|             |             | <b>Boring Terminated at 36.5 Feet</b>  |             |                          |             |                |                    |                 |                   |          |               |  |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

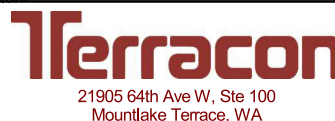
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-07-2021

Boring Completed: 01-07-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-P05

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6264° Longitude: -122.9046°<br><br>Approximate Surface Elev.: 248 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.)            | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|---|------------------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |   |                        |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><b>FAT CLAY (CH)</b> , with organics, dark brown, moist, very soft<br>brown to brownish gray, with silt and sand<br>trace organics, gray with reddish brown, wet, with silt   | 247.5+/-<br>245.5+/-   | ▽                        | X           | 24             | 0-0-0-0<br>N=0     | S-1        |                   |                  |  |               |
| 2           |             | <b>CLAYEY SAND (SC)</b> , gray with reddish brown, wet, medium dense, stratified, with varying amounts of clay and gravel<br>olive gray with reddish brown, interbedded with clay<br>gray<br>trace clay, orangish brown<br><br>olive grayish brown to reddish brown<br><br>dense, interbedded with 6-inches thick gray silty sand | 5                      |                          | X           | 18             | 7-11-15<br>N=26    | S-2        |                   |                  |  |               |
|             |             |   |                        |                          |             | 18             | 3-12-14<br>N=26    | S-3        |                   |                  |  |               |
|             |             |   |                        |                          |             | 9              | 5-10-14<br>N=24    | S-4        |                   |                  |  |               |
|             |             |   |                        |                          |             | 9              | 15-18-11<br>N=29   | S-5        |                   |                  |  |               |
|             |             |   |                        |                          |             | 18             | 7-11-17<br>N=28    | S-6        |                   |                  |  |               |
| 3           |             | with gravel, dark brown and dark gray, wet, very dense<br><br><b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , dark bluish gray to dark gray, wet, very dense<br><br>hard drilling at 23 ft   | 10<br><br>15<br><br>20 |                          | X           | 14             | 5-17-29<br>N=46    | S-7        |                   |                  |  |               |
|             |             |   |                        |                          |             | 10             | 10-40-19<br>N=59   | S-8        |                   |                  |  |               |
|             |             | 18.5  | 229.5+/-               |                          |             |                |                    |            |                   |                  |  |               |
|             |             |   | 25                     |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

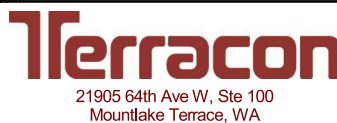
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-07-2021

Boring Completed: 01-07-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-P05

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6264° Longitude: -122.9046°<br><br>Approximate Surface Elev.: 248 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 3           |             | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , dark bluish gray to dark gray, wet, very dense (continued)<br>fine to coarse grained, dense         | 28.5        | ▽                        | X           | 6              | 34-21-26<br>N=47   | S-10       |                   |                  |               |
| 4           |             | <b>FAT CLAY (CH)</b> , with silt, bluish gray, wet, hard   | 30          |                          | X           | 8              | 50/3"              | S-11       |                   |                  |               |
|             |             | <b>Boring Terminated at 35.1 Feet</b>  | 35.1        |                          | X           | 9              | 50/2"              | S-12       |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

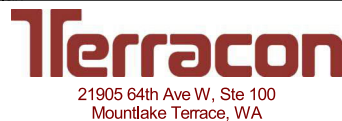
Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

| WATER LEVEL OBSERVATIONS |   |
|--------------------------|---|
| ▽                        | Inferred from change in sample moisture |
| ▽                        | Measured with water level indicator     |



Boring Started: 01-07-2021

Boring Completed: 01-07-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-P06

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PUJ\_TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6261° Longitude: -122.9035°<br><br>Approximate Surface Elev.: 251 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown with orangish brown, moist, very soft<br>250.5+/-   |             |                          |             | 19             | 0-0-0-3<br>N=0     | S-1        |                   |                  |  |               |
|             |             | 2.5 <b>FAT CLAY (CH)</b> , with organics, brownish gray with orangish brown, moist, very soft<br>trace organics<br>248.5+/-  |             |                          |             | 18             | 7-7-8<br>N=15      | S-2        |                   |                  |  |               |
|             |             | 5.5 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , reddish brown, moist, medium dense, stratified with varying quantities of clay interbedded with clay layer<br>with gravel<br>245.5+/-  | 5           |                          |             | 18             | 8-11-11<br>N=22    | S-3        |                   |                  |  |               |
|             |             | 8.0 <b>FAT CLAY (CH)</b> , olive grayish brown, moist, very stiff, reddish brown and black striations<br>243+/-  |             |                          |             | 18             | 6-8-11<br>N=19     | S-4        |                   |                  |  |               |
|             |             | 13.5 <b>CLAYEY SAND (SC)</b> , olive gray with reddish brown, moist, dense, trace gravel<br>with gravel<br>medium dense, interbedded with gray clay layer at 9.5 ft bgs with clay and gravel, reddish brown with olive gray, with gravel<br>237.5+/- | 10          |                          |             | 17             | 6-8-27<br>N=35     | S-6        |                   |                  |  |               |
|             |             | 18.5 <b>FAT CLAY (CH)</b> , with silt, bluish gray, wet, stiff, vertical brown striations<br>232.5+/-  | 15          | ▽                        |             | 18             | 5-7-5<br>N=12      | S-8        |                   |                  |  |               |
| 3           |             | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , fine to coarse grained, bluish gray, wet, very dense  | 20          |                          |             | 14             | 13-35-41<br>N=76   | S-9        |                   |                  |  |               |
|             |             |  | 25          |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

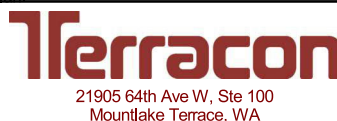
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-07-2021

Boring Completed: 01-07-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-P06

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                           | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6261° Longitude: -122.9035°<br><br>Approximate Surface Elev.: 251 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO.     | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|---------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|----------------|-------------------|------------------|---------------|
|                                       |             |  |             |                          |             |                |                    |                |                   | LL-PL-PI         |               |
| 3                                     |             | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , fine to coarse grained, bluish gray, wet, very dense ( <i>continued</i> ) dense                     | 28.5        |                          | X           | 6              | 8-19-26<br>N=45    | S-10           |                   |                  |               |
| 4                                     |             | <b>FAT CLAY (CH)</b> , trace silt, dark grayish blue, wet, very stiff  | 222.5+/-    | 30                       |             | X              | 28                 | 6-9-12<br>N=21 | S-11              |                  |               |
|                                       |             |  |             | 35                       |             | █              | 30                 | ST-1           |                   |                  |               |
|                                       |             |  | 36.5        |                          | X           | 28             | 5-9-14<br>N=23     | S-12           |                   |                  |               |
| <b>Boring Terminated at 36.5 Feet</b> |             |  |             |                          |             |                |                    |                |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

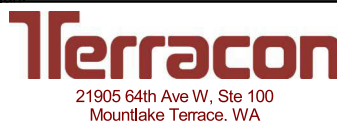
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



Boring Started: 01-07-2021

Boring Completed: 01-07-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21



# BORING LOG NO. B-P07p

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6255° Longitude: -122.9023°<br><br>Approximate Surface Elev.: 255 (Ft.) +/-                     | INSTALLATION DETAILS | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |                 |          |               |              |     |
|-------------|-------------|---|----------------------|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|-----------------|----------|---------------|--------------|-----|
|             |             |   |                      |             |                          |             |                |                    |            |                   | DEPTH            | ELEVATION (Ft.) | LL-PL-PI | PERCENT FINES |              |     |
| 1           |             | 0.5   | Concrete             | 254.5+/-    | ▼                        | X           | 19             | 0-2-2-3<br>N=4     | S-0        | 25.5              |                  |                 |          |               |              |     |
|             |             | 4.5   |                      |             |                          |             | 250.5+/-       | 5                  | X          |                   |                  |                 | 6        | 2-2-3<br>N=5  | S-1          |     |
| 2           |             | increase in clay content  | Bentonite            | 245+/-      | 5                        | X           | 14             | 2-6-12<br>N=18     | S-2        | 25.5              |                  |                 |          |               |              |     |
|             |             |   |                      |             |                          |             | 15             | 9-12-11<br>N=23    | S-3        |                   |                  |                 |          |               |              |     |
|             |             |   |                      |             |                          |             | 15             | 2-4-11<br>N=15     | S-4        |                   |                  |                 |          |               |              |     |
|             |             |   |                      |             |                          |             | 12             | 4-6-7<br>N=13      | S-5        |                   |                  |                 |          |               |              |     |
| 3           |             | SANDY FAT CLAY WITH GRAVEL (CH), orangish brown, moist, hard rock fragments in sampler, blowcounts might be overstated  | Sand                 | 242.5+/-    | 10                       | X           | 13             | 4-8-29<br>N=37     | S-6        | 37.9              |                  | 41              |          |               |              |     |
|             |             |   |                      |             |                          |             | 12.5           | 242.5+/-           | 15         |                   |                  |                 | X        | 15            | 3-3-3<br>N=6 | S-7 |
|             |             |   |                      |             |                          |             |                |                    |            |                   |                  |                 |          |               |              |     |
|             |             | WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC), orangish brown to grayish brown, wet, very dense only rock fragments recovered, blowcounts might be overstated | Screen               |             |                          |             |                |                    |            |                   |                  | 43              |          |               |              |     |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:  
Well protrudes 3 feet above ground surface

Abandonment Method:  
Groundwater monitoring well was installed after completion of drilling

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

| WATER LEVEL OBSERVATIONS |   |
|--------------------------|---|
| ▼                        | Inferred from change in sample moisture |
| ▼                        | Measured with water level indicator     |
| ▼                        | On 02/08/2021                           |

21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

|                            |                              |
|----------------------------|------------------------------|
| Boring Started: 01-06-2021 | Boring Completed: 01-06-2021 |
| Drill Rig: D-50            | Driller: Holocene            |
| Project No.: 81215062      |                              |

# BORING LOG NO. B-P07p

**PROJECT: Proposed Industrial Park - Chehalis PWI Site**

**CLIENT: Puget Western Inc  
Bothell, WA**

**SITE: 2800 Jackson Highway  
Chehalis, WA**

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6255° Longitude: -122.9023°<br><br>Approximate Surface Elev.: 255 (Ft.) +/-   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|             |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| DEPTH       |             | ELEVATION (Ft.)   |             |                          |             |                |                    |            |                   |                  |               |
|             |             | 25.1' refusal, no sample recovery, possibly due to cobbles or boulders, blowcounts might be overstated<br><b>Auger Refusal at 25.1 Feet</b> |             |                          |             | 0              | 50/1"              | S-9        |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

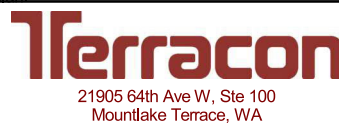
Abandonment Method:  
Groundwater monitoring well was installed after completion of drilling

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▼ Inferred from change in sample moisture
- ▼ Measured with water level indicator
- ▼ On 02/08/2021



Boring Started: 01-06-2021

Boring Completed: 01-06-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT 8/23/21

# BORING LOG NO. B-P08

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PUJ\_TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER                           | GRAPHIC LOG  | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6250° Longitude: -122.9015°<br><br>Approximate Surface Elev.: 261 (Ft.) +/-   | DEPTH (Ft.)     | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |  |
|---------------------------------------|--|---|-----------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|--|
|                                       |  |   |                 |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |  |
| 1                                     |  | DEPTH   | ELEVATION (Ft.) |                          |             |                |                    |            |                   |                  |  |               |  |
|                                       |  | 0.5   | 260.5+/-        |                          |             |                |                    |            |                   |                  |  |               |  |
|                                       |  | <b>TOPSOIL</b> , with organics, brown to dark brown, moist, very soft<br><b>SANDY FAT CLAY (CH)</b> , trace organics, yellowish brown with orange mottling, moist, medium stiff, trace gravel soft<br><br>stiff, trace weathered gravel |                 |                          |             |                |                    |            |                   |                  |  |               |  |
|                                       |  | 5.0   | 256+/-          | 5                        |             |                |                    |            |                   |                  |  |               |  |
|                                       |  | <b>FAT CLAY (CH)</b> , trace weathered gravel, low to medium plasticity, yellowish brown to brown, moist, stiff   |                 |                          |             |                |                    |            |                   |                  |  |               |  |
|                                       |  | 7.0   | 254+/-          |                          |             |                |                    |            |                   |                  |  |               |  |
|                                       |  | <b>SANDY FAT CLAY WITH GRAVEL (CH)</b> , gray and orange, moist, very stiff, gravel content increasing with depth stiff, rock fragments in sampler, blowcounts might be overstated with interbedded sand<br>medium stiff                |                 |                          |             |                |                    |            |                   |                  |  |               |  |
|                                       |  | 10.0  | 251+/-          | 10                       |             |                |                    |            |                   |                  |  |               |  |
|                                       |  | <b>FAT CLAY (CH)</b> , low to medium plasticity, light bluish gray with orange mottling, moist, medium stiff, silt content increasing with depth<br><br>stiff   |                 |                          |             |                |                    |            |                   |                  |  |               |  |
|                                       |  | 18.0  | 243+/-          | 15                       |             |                |                    |            |                   |                  |  |               |  |
|                                       | <b>FAT CLAY WITH SAND (CH)</b> , trace gravel, light bluish gray, moist, very stiff<br><br>rock fragments in sampler, blowcounts might be overstated |   |                 |                          |             |                |                    |            |                   |                  |  |               |  |
|                                       | 21.5   | 239.5+/-  | 20              |                          |             |                |                    |            |                   |                  |  |               |  |
| <b>Boring Terminated at 21.5 Feet</b> |  |   |                 |                          |             |                |                    |            |                   |                  |  |               |  |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

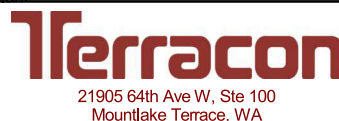
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Groundwater not encountered



Boring Started: 01-06-2021

Boring Completed: 01-06-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-P09

**PROJECT: Proposed Industrial Park - Chehalis PWI Site**

**CLIENT: Puget Western Inc Bothell, WA**

**SITE: 2800 Jackson Highway Chehalis, WA**

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6243° Longitude: -122.9006°<br><br>Approximate Surface Elev.: 265 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL (ML)</b> , with organics, brown to dark brown, moist, very soft<br><b>FAT CLAY (CH)</b> , with organics, medium plasticity, brown to dark brown, moist, medium stiff<br>yellowish brown to orangish brown, with gray mottling<br>trace organics, stiff<br>very stiff, increase in sand content, more gravel at the bottom of the sample<br><br>trace gravel<br><br>gray with orange and black mottling, medium stiff<br><br>stiff<br>increase in sand content | 5           |                          | X           | 12             | 1-2-3<br>N=5       | S-0        |                   |                  |  |               |
|             |             |  |             |                          | X           | 18             | 2-3-6<br>N=9       | S-1        |                   |                  |  |               |
|             |             |  |             |                          | X           | 12             | 3-6-10<br>N=16     | S-2        |                   |                  |  |               |
|             |             |  |             |                          | X           | 12             | 4-10-11<br>N=21    | S-3        |                   |                  |  |               |
|             |             |  |             |                          | X           | 13             | 3-3-4<br>N=7       | S-4        | 25.5              | 77-22-55         |  |               |
|             |             |  |             |                          | X           | 14             | 2-5-9<br>N=14      | S-5        |                   |                  |  |               |
|             |             |  |             |                          | X           | 15             | 2-5-8<br>N=13      | S-6        |                   |                  |  |               |
| 2           |             | 10.5 <b>SANDY FAT CLAY (CH)</b> , trace gravel, gray and orange, moist, very stiff, with interbedded sand<br>rock fragments in sampler, blowcounts might be overstated   | 10          |                          | X           | 15             | 2-6-12<br>N=18     | S-7        |                   |                  |  |               |
|             |             | 13.0 <b>FAT CLAY (CH)</b> , trace gravel, medium plasticity, orange with gray mottling, moist, very stiff, silt content increasing with depth<br><br>stiff   | 15          |                          | X           | 16             | 3-5-7<br>N=12      | S-8        |                   |                  |  |               |
|             |             | 21.5 <b>Boring Terminated at 21.5 Feet</b>   | 20          |                          | X           | 16             | 2-4-7<br>N=11      | S-9        | 29.5              | 54-21-33         |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Groundwater not encountered



21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

Boring Started: 01-04-2021

Boring Completed: 01-04-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-P10

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6238° Longitude: -122.8995°<br><br>Approximate Surface Elev.: 269.5 (Ft.) +/-  | DEPTH (Ft.)        | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |                 | PERCENT FINES |
|-------------|-------------|--|--------------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|-----------------|---------------|
|             |             |  |                    |                          |             |                |                    |            |                   | DEPTH            | ELEVATION (Ft.) |               |
| 1           |             | 0.4<br>0.8<br>POORLY GRADED GRAVEL (GP), black, medium dense, Aggregate Base<br>FILL - SANDY SILT WITH GRAVEL (ML), trace rock fragments, brown, very stiff<br>SANDY FAT CLAY (CH), trace gravel, orange with gray mottling, moist, very stiff dark brown to gray stiff, trace weathered rock<br><br>increase in gravel content<br><br>with interbedded sand, trace weathered rock<br><br>grayish brown with orange mottling, increase in sand content, trace rock fragments | 269+/-<br>268.5+/- |                          |             |                |                    |            |                   |                  |                 |               |
|             |             |  | 5                  |                          | X           | 18             | 13-7-8-8<br>N=15   | S-0        |                   |                  |                 |               |
|             |             |  |                    |                          | X           | 10             | 4-6-9<br>N=15      | S-1        |                   |                  |                 |               |
|             |             |  |                    |                          | X           | 9              | 4-5-7<br>N=12      | S-2        |                   |                  |                 |               |
|             |             |  |                    |                          | X           | 10             | 2-5-7<br>N=12      | S-3        |                   |                  |                 |               |
|             |             |  |                    |                          | X           | 15             | 4-5-6<br>N=11      | S-4        | 34.6              |                  |                 | 63            |
|             |             |  |                    |                          | X           | 15             | 3-5-8<br>N=13      | S-5        |                   |                  |                 |               |
|             |             |  | 10                 |                          | X           | 14             | 3-5-8<br>N=13      | S-6        |                   |                  |                 |               |
|             |             |  |                    |                          |             |                |                    |            |                   |                  |                 |               |
|             |             |  | 15                 |                          | X           | 14             | 4-5-7<br>N=12      | S-7        |                   |                  |                 |               |
|             |             |  |                    |                          |             |                |                    |            |                   |                  |                 |               |
|             |             |  | 20                 |                          | X           | 9              | 5-11-7<br>N=18     | S-8        |                   |                  |                 |               |
|             |             |  | 25                 |                          |             |                |                    |            |                   |                  |                 |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

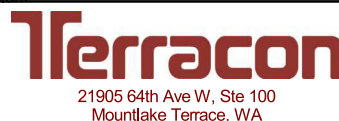
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Groundwater not encountered



Boring Started: 01-07-2021

Boring Completed: 01-07-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-P10

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6238° Longitude: -122.8995°<br><br>Approximate Surface Elev.: 269.5 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|             |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 2           |             | <p><b>SANDY FAT CLAY (CH)</b>, trace gravel, orange with gray mottling, moist, very stiff (<i>continued</i>)<br/>26.5 trace weathered rock, increase in sand content at the bottom 243+/-<br/><b>Boring Terminated at 26.5 Feet</b></p> |             |                          | X           | 16             | 5-7-12<br>N=19     | S-9        |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Groundwater not encountered



21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

Boring Started: 01-07-2021

Boring Completed: 01-07-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATATEMPLATE.GDT 8/23/21



# BORING LOG NO. B-P11

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                         | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6233° Longitude: -122.8987°<br><br>Approximate Surface Elev.: 274 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)   | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS<br>LL-PL-PI | PERCENT FINES |
|-------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------------------|---------------|
| 2                                   |             | <p><b>FAT CLAY (CH)</b>, trace gravel, orange to orangish brown, moist, stiff (<i>continued</i>) interbedded with clay, trace weathered rock, increase in clay and silt content at the bottom</p> <p>transitions to silt with sand</p> | 29.0        |                          | X           | 15             | 4-6-7<br>N=13      | S-9        | 33.4              | 80-26-54                     |               |
|                                     |             |  | 245+/-      |                          |             | 20             |                    | S-ST       |                   |                              |               |
| <b>Boring Terminated at 29 Feet</b> |             |  |             |                          |             |                |                    |            |                   |                              |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

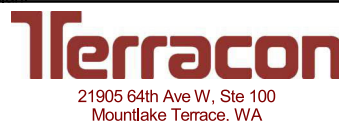
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

*Groundwater not encountered*



Boring Started: 01-06-2021

Boring Completed: 01-06-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21



# BORING LOG NO. B-P12

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER                         | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6220° Longitude: -122.8983°<br><br>Approximate Surface Elev.: 263 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)                                 | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|                                     |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1                                   |             | 0.5 <b>TOPSOIL</b> , with organics, brown to dark brown, moist, very soft<br>262.5+/-  |             |                          |             | 14             | 0-1-1-2<br>N=2     | S-0        |                   |                  |  |               |
|                                     |             | 2.0 <b>FAT CLAY (CH)</b> , trace organics, gray and orange, moist, soft<br>261+/-  |             |                          |             |                |                    |            |                   |                  |  |               |
| 2                                   |             | <b>LEAN CLAY (CL)</b> , trace organics, bluish gray with orange mottling, medium stiff, sand content increasing with depth<br>orangish brown with gray mottling, stiff                             |             |                          |             | 6              | 1-2-4<br>N=6       | S-1        |                   |                  |  |               |
|                                     |             | 6.0 very stiff, rock fragments in sampler, blowcounts might be overstated<br>257+/-  | 5           |                          |             | 13             | 4-5-9<br>N=14      | S-2        | 22.4              | 49-21-28         |  |               |
|                                     |             | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , orangish brown to brown, moist, dense, increase in gravel content, rock fragments in sampler, blowcounts might be overstated                |             |                          |             | 13             | 3-7-19<br>N=26     | S-3        |                   |                  |  |               |
| 3                                   |             | 10.0 <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , orangish brown to brown, moist, dense, increase in gravel content, rock fragments in sampler, blowcounts might be overstated<br>253+/- |             |                          |             | 13             | 8-16-17<br>N=33    | S-4        |                   |                  |  |               |
|                                     |             | 11.0 <b>FAT CLAY (CH)</b> , gray with orange mottling, moist, very stiff<br>252+/-   | 10          |                          |             | 13             | 5-14-10<br>N=24    | S-5        |                   |                  |  |               |
| 2                                   |             | <b>FAT CLAY (CH)</b> , gray with orange mottling, moist, very stiff<br>252+/-  |             |                          |             | 10             | 5-7-8<br>N=15      | S-6        |                   |                  |  |               |
| <b>Boring Terminated at 11 Feet</b> |             |  |             |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

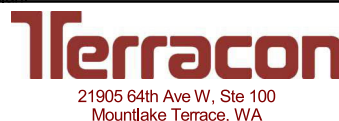
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

Groundwater not encountered



Boring Started: 01-06-2021

Boring Completed: 01-06-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-P13

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                         | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6212° Longitude: -122.8992°<br><br>Approximate Surface Elev.: 260 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------------------------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|                                     |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
|                                     |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br>259.5+/-  |             |                          |             |                |                    |            |                   |                  |  |               |
|                                     |             | <b>FAT CLAY WITH SAND (CH)</b> , with organics, dark brown, moist, medium stiff<br><br>trace organics, light brown to orangish brown, stiff, trace gravel<br><br>very stiff<br>4.5 increase in sand content 255.5+/-                                      |             |                          |             | 18             | 0-2-3-3<br>N=5     | S-1        |                   |                  |  |               |
|                                     |             | <b>CLAYEY SAND (SC)</b> , fine to medium grained, gray to light brown, moist, dense, with varying gravel content<br>orangish brown<br><br>trace gravel, light brown to orangish brown, medium dense<br><br>orangish brown to grayish brown<br>11.0 249+/- | 5           |                          |             | 13             | 0-4-6<br>N=10      | S-2        |                   |                  |  |               |
|                                     |             |   |             |                          |             | 18             | 4-9-21<br>N=30     | S-3        |                   |                  |  |               |
|                                     |             |   |             |                          |             | 14             | 9-18-22<br>N=40    | S-4        |                   |                  |  |               |
|                                     |             |   |             |                          |             | 13             | 20-15-10<br>N=25   | S-5        |                   |                  |  |               |
|                                     |             |   |             |                          |             | 17             | 5-5-5<br>N=10      | S-6        |                   |                  |  |               |
|                                     |             |   | 10          |                          |             | 17             | 7-6-7<br>N=13      | S-7        |                   |                  |  |               |
| <b>Boring Terminated at 11 Feet</b> |             |   |             |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

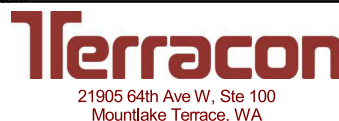
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

Groundwater not encountered



Boring Started: 12-29-2020

Boring Completed: 12-29-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-P14

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6208° Longitude: -122.9012°<br><br>Approximate Surface Elev.: 257 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)   | DEPTH (Ft.)                     | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|--|---------------------------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|             |             |  |                                 |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><b>FAT CLAY WITH SAND (CH)</b> , with organics, orangish brown with brown, moist, soft<br><br>olive gray to brown, moist, very stiff, stratified<br><br>orangish brown to brown, wet<br>olive gray to brownish gray<br>trace gravel and sand | 256.5+/-<br><br><br><br><br>5.0 |                          |             |                | 0-1-2-2<br>N=3     | S-1        |                   |                  |  |               |
|             |             | 6.5 <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , fine to coarse grained, orangish brown to brown, wet, very dense<br><b>CLAYEY SAND WITH GRAVEL (SC)</b> , fine to coarse grained, orangish brown to brown, wet, dense   | 252+/-<br>250.5+/-              | 5                        | ▽           |                | 4-9-11<br>N=20     | S-2        |                   |                  |  |               |
|             |             | 8.0 <b>FAT CLAY WITH SAND (CH)</b> , olive gray with orangish brown, wet, soft   | 249+/-                          |                          |             |                | 2-5-17<br>N=22     | S-3        |                   |                  |  |               |
|             |             |  |                                 |                          |             |                | 6-21-31<br>N=52    | S-4        |                   |                  |  |               |
|             |             |  |                                 |                          |             |                | 12-17-17<br>N=34   | S-5        |                   |                  |  |               |
|             |             |  |                                 |                          |             |                | 0-0-2<br>N=2       | S-6        |                   |                  |  |               |
|             |             |  |                                 | 10                       |             |                | 0-0-2<br>N=2       | S-7        | 31.1              |                  |  | 74            |
| 2           |             | stratified, interbedded with sand layer<br><br><br><br><br><br><br><br><br><br>bluish gray, stiff, orangish brown vertical striations, interbedded with sand   | 233.5+/-                        | 15                       |             |                | 0-0-2<br>N=2       | S-8        |                   |                  |  |               |
|             |             |  |                                 | 20                       |             |                | 3-4-5<br>N=9       | S-9        |                   |                  |  |               |
| 3           |             | 23.5 <b>CLAYEY GRAVEL WITH SAND (GC)</b> , fine to medium grained, olive brownish gray to dark gray, wet, very dense   | 233.5+/-                        | 25                       |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

Boring Started: 12-29-2020

Boring Completed: 12-29-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-P14

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                         | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6208° Longitude: -122.9012°<br><br>Approximate Surface Elev.: 257 (Ft.) +/-<br>ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------------------------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|                                     |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 3                                   |             | <p><b>CLAYEY GRAVEL WITH SAND (GC)</b>, fine to medium grained, olive brownish gray to dark gray, wet, very dense (<i>continued</i>)<br/>rock fragments in sampler, blowcounts might be overstated</p> <p>rock fragments in sampler, blowcounts might be overstated</p> | 30          |                          | X           | 6              | 50/6"              | S-10       |                   |                  |  |               |
|                                     |             | 31.0  | 226+/-      |                          | X           | 6              | 7-50/6"            | S-11       |                   |                  |  |               |
| <b>Boring Terminated at 31 Feet</b> |             |   |             |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- Inferred from change in sample moisture
- Measured with water level indicator



21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

Boring Started: 12-29-2020

Boring Completed: 12-29-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

# BORING LOG NO. B-P15

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6216° Longitude: -122.9015°<br><br>Approximate Surface Elev.: 256.5 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |               |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|             |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         | PERCENT FINES |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, soft 256+/-   |             | ▽                        |             |                |                    |            |                   |                  |               |
|             |             | 1.2 <b>FAT CLAY WITH SAND (CH)</b> , with organics, dark brown with orangish brown, moist, soft 255.5+/-   |             |                          |             | 14             | 0-0-2-2<br>N=2     | S-1        |                   |                  |               |
|             |             | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , with organics, orangish brown to dark brown, moist, very loose, with clay medium dense   |             |                          |             | 18             | 6-5-15<br>N=20     | S-2        |                   |                  |               |
|             |             | orangish brown to brown, moist, medium stiff   | 5           |                          |             | 18             | 4-18-9<br>N=27     | S-3        |                   |                  |               |
|             |             |  |             | ▽                        |             | 7              | 2-3-2<br>N=5       | S-4        | 30.5              |                  | 29            |
| 2           |             | fine to coarse grained, reddish brown with brown, wet, medium dense, stratified  |             |                          |             | 0              | 13-15-10<br>N=25   | S-5        |                   |                  |               |
|             |             |  |             |                          |             | 18             | 10-14-8<br>N=22    | S-6        |                   |                  |               |
|             |             | 10.0 <b>FAT CLAY (CH)</b> , with sand, gray, wet, medium stiff 246.5+/-  | 10          |                          |             | 18             | 2-4-4<br>N=8       | S-7        |                   |                  |               |
|             |             | 11.5 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , with clay, orangish brown and gray, wet, dense 245+/-   |             |                          |             | 18             | 5-17-17<br>N=34    | S-8        |                   |                  |               |
|             |             | 12.5 <b>Boring Terminated at 12.5 Feet</b> 244+/-  |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Water rose to the surface in the borehole after completion of drilling

Abandonment Method:

Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ At completion of drilling



21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

Boring Started: 12-30-2020

Boring Completed: 12-30-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-P16

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6216° Longitude: -122.9025°<br><br>Approximate Surface Elev.: 254 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | ATTERBERG LIMITS  |          | PERCENT FINES |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|----------|---------------|
|             |             |  |             |                          |             |                |                    |            | WATER CONTENT (%) | LL-PL-PI |               |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><b>FAT CLAY WITH SAND (CH)</b> , with organics, olive grayish brown, wet, very soft            | 253.5+/-    | ▽                        | X           | 16             | 0-0-0-0<br>N=0     | S-1        |                   |          |               |
|             |             | 2.2 olive gray with reddish brown<br><b>CLAYEY SAND WITH GRAVEL (SC)</b> , with clay, reddish brown, moist, medium dense<br>gray and grayish brown, wet, dense     | 252+/-      | ▽                        | X           | 18             | 3-8-11<br>N=19     | S-2        |                   |          |               |
|             |             | reddish brown to dark brown, stratified  |             |                          | X           | 9              | 2-11-22<br>N=33    | S-3        |                   |          |               |
|             |             | medium dense   |             |                          | X           | 13             | 11-19-16<br>N=35   | S-4        |                   |          |               |
|             |             | dense  |             |                          | X           | 16             | 7-8-9<br>N=17      | S-5        |                   |          |               |
|             |             |  |             |                          | X           | 18             | 16-24-17<br>N=41   | S-6        |                   |          |               |
|             |             | 10.0 <b>FAT CLAY (CH)</b> , with sand, olive gray, very stiff<br>reddish brown to brownish gray, hard  | 244+/-      |                          | X           | 17             | 10-13-11<br>N=24   | S-7        |                   |          |               |
|             |             | 12.5 interbedded with sand layer at 12 ft<br><b>Boring Terminated at 12.5 Feet</b>   | 241.5+/-    |                          | X           | 10             | 20-22-19<br>N=41   | S-8        |                   |          |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

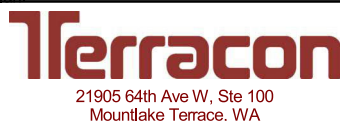
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 12-30-2020

Boring Completed: 12-30-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-P17

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER                         | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6222° Longitude: -122.9027°<br><br>Approximate Surface Elev.: 254 (Ft.) +/-<br>DEPTH ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------------------------------|-------------|--|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|                                     |             |  |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1                                   |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft   | 253.5+/-    |                          |             | 24             | 0-0-0-2<br>N=0     | S-1        |                   |                  |  |               |
|                                     |             | 2.0 <b>FAT CLAY (CH)</b> , with organics, olive grayish brown, moist, very soft, with reddish brown striations   | 252+/-      |                          |             | 18             | 0-3-3<br>N=6       | S-2        |                   |                  |  |               |
|                                     |             | 3.5 <b>CLAYEY SAND (SC)</b> , with silt, olive grayish brown with reddish brown, moist, loose, trace gravel  | 250.5+/-    |                          |             | 15.5           | 3-4-12<br>N=16     | S-3        |                   |                  |  |               |
|                                     |             | 4.0 <b>FAT CLAY (CH)</b> , with sand, olive gray with orangish brown, moist, very stiff  | 250+/-      | 5                        |             | 9              | 8-16-12<br>N=28    | S-4        |                   |                  |  |               |
| 2                                   |             | 9.0 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , reddish brown to brown, moist, medium dense fine to coarse grained, stratified, dark gray gravel                         | 245+/-      |                          |             | 13             | 6-13-9<br>N=22     | S-5        | 16.3              |                  |  | 24            |
|                                     |             | 9.8 <b>FAT CLAY (CH)</b> , bluish gray, moist, stiff   | 244+/-      |                          |             | 18             | 9-10-5<br>N=15     | S-6        |                   |                  |  |               |
|                                     |             | 11.0 <b>CLAYEY SAND (SC)</b> , with silt, olive grayish brown, wet, medium dense, stratified, with orangish brown striations                                       | 243+/-      | 10                       | ▽           | 18             | 4-8-12<br>N=20     | S-7        |                   |                  |  |               |
| <b>Boring Terminated at 11 Feet</b> |             |  |             |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

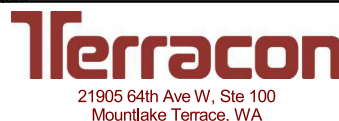
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

▽ Measured with water level indicator



Boring Started: 12-30-2020

Boring Completed: 12-30-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

# BORING LOG NO. B-P18

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                           | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6229° Longitude: -122.9035°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |    | PERCENT FINES |
|---------------------------------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|----|---------------|
|                                       |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |    |               |
| 1                                     |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><br><b>FAT CLAY WITH SAND (CH)</b> , with organics, brown to brownish gray, moist, very soft<br><br>dark olive brown with reddish brown, moist, stiff<br><br>medium stiff | 251.5+/-    |                          |             | 22             | 0-0-0-1<br>N=0     | S-1        |                   |                  |    |               |
|                                       |             | 5.0 <b>CLAYEY SAND (SC)</b> , with silt, dark olive brown with reddish brown, moist, medium dense<br><br>trace organics, trace gravel<br>with gravel, fine to coarse grained, reddish brown   | 247+/-      |                          |             | 18             | 4-7-7<br>N=14      | S-2        |                   |                  |    |               |
|                                       |             | 8.3 <b>FAT CLAY (CH)</b> , moist, stiff<br><br>with sand  | 243.5+/-    |                          |             | 18             | 2-2-5<br>N=7       | S-3        | 33.6              |                  | 82 |               |
|                                       |             |   |             |                          |             | 14             | 5-14-15<br>N=29    | S-4        |                   |                  |    |               |
|                                       |             |   |             |                          |             | 15             | 4-9-15<br>N=24     | S-5        |                   |                  |    |               |
|                                       |             |   |             |                          |             | 18             | 7-6-7<br>N=13      | S-6        |                   |                  |    |               |
|                                       |             |   |             |                          |             | 18             | 4-5-7<br>N=12      | S-7        |                   |                  |    |               |
|                                       |             |   |             |                          |             | 18             | 0-4-5<br>N=9       | S-8        | 34.9              | 44-22-22         |    |               |
| <b>Boring Terminated at 16.5 Feet</b> |             |   |             |                          |             |                |                    |            |                   |                  |    |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

Water rose to the surface in the borehole after completion of drilling

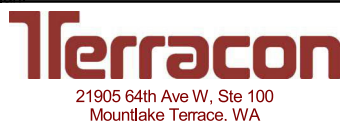
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

At completion of drilling



Boring Started: 12-30-2020

Boring Completed: 12-30-2020

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21



# BORING LOG NO. B-P19

**PROJECT: Proposed Industrial Park - Chehalis PWI Site**

**CLIENT: Puget Western Inc  
Bothell, WA**

**SITE: 2800 Jackson Highway  
Chehalis, WA**

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6224° Longitude: -122.9041°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO.     | WATER CONTENT (%) | ATTERBERG LIMITS |               |    |
|-------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|----------------|-------------------|------------------|---------------|----|
|             |             |   |             |                          |             |                |                    |                |                   | LL-PL-PI         | PERCENT FINES |    |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, brown to dark brown, moist, very soft<br>Elevation: 251.5+/-  |             |                          | X           | 17             | 0-0-1-1<br>N=1     | S-0            |                   |                  |               |    |
|             |             | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , with organics, brown to dark brown, moist, very soft<br>trace organics, with orange mottling<br>trace gravel, gray and orange<br>trace organics, medium stiff<br>interbedded with sand<br>stiff |             |                          | X           | 11             | 2-2-3<br>N=5       | S-1            |                   |                  |               |    |
|             |             | grayish brown, very stiff, trace weathered rock, increase in gravel content   | 5           |                          | X           | 12             | 3-5-9<br>N=14      | S-2            |                   |                  |               |    |
|             |             | olive gray with orange mottling, increase in silt content   |             |                          | X           | 12             | 8-9-12<br>N=21     | S-3            | 22.6              |                  | 35            |    |
|             |             | orangish brown, stiff, increase in sand and gravel content  |             |                          | X           | 13             | 5-8-15<br>N=23     | S-4            |                   |                  |               |    |
| 2           |             | moist, interbedded with sand<br>very stiff<br>rock fragments in sampler, blowcounts might be overstated   |             | 10                       |             | X              | 14                 | 8-15-9<br>N=24 | S-6               |                  |               |    |
|             |             | gray with orange mottling, transitions to silt  |             |                          |             |                |                    |                |                   |                  |               |    |
|             |             | 13.0 <b>CLAYEY SAND (SC)</b> , coarse grained, orangish brown, moist, medium dense<br>Elevation: 239+/-   |             | 15                       |             | X              | 9                  | 4-6-6<br>N=12  | S-7               | 24.4             |               | 31 |
|             |             | 16.5 fine grained, gray<br>Elevation: 235.5+/-<br><b>Boring Terminated at 16.5 Feet</b>   |             |                          |             |                |                    |                |                   |                  |               |    |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

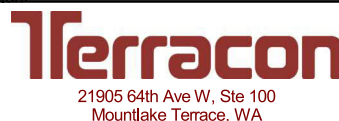
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

Groundwater not encountered



Boring Started: 01-07-2021

Boring Completed: 01-07-2021

Drill Rig: D-50

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-P20

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                           | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6219° Longitude: -122.9047°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>DEPTH ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|---------------------------------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|--|---------------|
|                                       |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |  |               |
| 1                                     |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><b>FAT CLAY (CH)</b> , with organics, dark brown, moist, very soft<br>olive brownish gray with orangish brown<br>trace organics<br>with silt, medium stiff<br><br>stiff | 251.5+/-    |                          |             | 24             | 0-0-0-0<br>N=0     | S-1        |                   |                  |  |               |
|                                       |             | 5.7 <b>CLAYEY SAND (SC)</b> , light olive gray with reddish brown, moist, medium dense<br>with gravel, brownish red<br>interbedded with clay  | 246.5+/-    |                          |             | 12             | 0-3-4<br>N=7       | S-2        | 31.8              | 52-20-32         |  |               |
|                                       |             | 9.5 <b>FAT CLAY (CH)</b> , olive gray with reddish brown, wet, stiff<br>with silt and sand  | 242.5+/-    | ▽                        |             | 18             | 2-4-6<br>N=10      | S-3        |                   |                  |  |               |
|                                       |             |   |             |                          |             | 15             | 2-5-20<br>N=25     | S-4        |                   |                  |  |               |
|                                       |             |   |             |                          |             | 18             | 7-8-9<br>N=17      | S-5        |                   |                  |  |               |
|                                       |             |   |             | ▽                        |             | 7              | 12-15-9<br>N=24    | S-6        |                   |                  |  |               |
|                                       |             |   |             |                          |             | 18             | 4-5-7<br>N=12      | S-7        |                   |                  |  |               |
|                                       |             |   |             | ▽                        |             |                |                    |            |                   |                  |  |               |
|                                       |             |   |             |                          |             | 18             | 3-4-7<br>N=11      | S-8        |                   |                  |  |               |
| <b>Boring Terminated at 16.5 Feet</b> |             |   |             |                          |             |                |                    |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

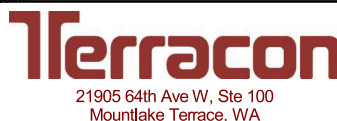
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-06-2021

Boring Completed: 01-06-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT 8/23/21

# BORING LOG NO. B-P22

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                           | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6234° Longitude: -122.9049°<br><br>Approximate Surface Elev.: 249 (Ft.) +/-<br>ELEVATION (Ft.)   | DEPTH (Ft.)      | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | ATTERBERG LIMITS  |          | PERCENT FINES |
|---------------------------------------|-------------|--|------------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|----------|---------------|
|                                       |             |  |                  |                          |             |                |                    |            | WATER CONTENT (%) | LL-PL-PI |               |
| 1                                     |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft<br><br><b>FAT CLAY WITH SAND (CH)</b> , with organics, dark brown with reddish brown, moist, very soft<br><br>reddish brown with gray, very stiff   | 0.5<br>248.5+/-  |                          |             | 17             | 0-0-0-1/-17"       | S-1        |                   |          |               |
|                                       |             | 3.8 <b>CLAYEY SAND (SC)</b> , trace gravel, reddish brown, moist, medium dense, stratified, interbedded with clay with silt and sand layer<br>with clay, brownish gray, wet, dense<br>with gravel, reddish brown to dark brown<br><br>trace gravel, medium dense | 3.8<br>245+/-    | 5                        | ▽           | 18             | 5-7-14<br>N=21     | S-2        |                   |          |               |
|                                       |             | 8.0 grayish brown with reddish brown<br><br><b>FAT CLAY (CH)</b> , with silt and sand, gray with brown (vertical striations), moist, very stiff<br>trace silt<br>olive gray with reddish brown   | 8.0<br>241+/-    |                          |             | 16             | 5-10-11<br>N=21    | S-3        |                   |          |               |
|                                       |             | 16.2 bluish gray, wet, hard<br><br><b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , trace clay, bluish gray, wet, very dense   | 16.2<br>233+/-   |                          |             | 18             | 8-24-19<br>N=43    | S-4        |                   |          |               |
|                                       |             | 21.5 dark gray   | 21.5<br>227.5+/- |                          |             | 18             | 5-5-9<br>N=14      | S-5        |                   |          |               |
|                                       |             |  |                  |                          |             | 18             | 4-6-10<br>N=16     | S-6        |                   |          |               |
|                                       |             |  |                  |                          |             | 17             | 4-8-10<br>N=18     | S-7        |                   |          |               |
|                                       |             |  |                  |                          |             | 18             | 12-35-40<br>N=75   | S-8        |                   |          |               |
|                                       |             |  |                  |                          |             | 18             | 20-34-38<br>N=72   | S-9        |                   |          |               |
| <b>Boring Terminated at 21.5 Feet</b> |             |  |                  |                          |             |                |                    |            |                   |          |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

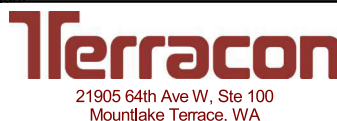
Abandonment Method:  
Boring backfilled with bentonite chips upon completion.

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan.

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator



Boring Started: 01-07-2021

Boring Completed: 01-07-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

# BORING LOG NO. B-P26p

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT 8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6225° Longitude: -122.9053°<br><br>Approximate Surface Elev.: 251 (Ft.) +/-  | INSTALLATION DETAILS | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |                 |          |
|-------------|-------------|--|----------------------|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|-----------------|----------|
|             |             |  |                      |             |                          |             |                |                    |            |                   | DEPTH            | ELEVATION (Ft.) | LL-PL-PI |
| 1           |             | 0.5 <b>TOPSOIL</b> , with organics, dark brown, moist, very soft   |                      | 250.5+/-    |                          |             | 24             | 0-0-0-0<br>N=0     | S-1        |                   | 74-32-42         |                 |          |
|             |             | <b>FAT CLAY (CH)</b> , with organics, dark brown, moist, very soft dark brown with orangish brown trace organics, olive grayish brown with reddish brown, moist, stiff, with silt and sand olive brown, hard |                      | 246.5+/-    |                          |             | 18             | 0-4-5<br>N=9       | S-2        |                   |                  |                 |          |
|             |             | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , olive brown to orangish brown, moist, dense brownish red to reddish brown, very dense reddish brown with yellow, dense, rock fragments, interbedded sand layer         |                      | 242.5+/-    | 5                        | ▼           | 18             | 4-14-19<br>N=33    | S-3        |                   |                  |                 |          |
|             |             | <b>FAT CLAY (CH)</b> , reddish brown, moist, very stiff olive brown with silt and sand, olive grayish brown with reddish brown, stiff  |                      |             |                          |             | 18             | 10-18-33<br>N=51   | S-4        | 16.8              |                  |                 | 24       |
|             |             | olive grayish brown, no silt and sand gray with reddish brown vertical striations dark gray bluish gray  |                      |             |                          |             | 8              | 8-25-24<br>N=49    | S-5        |                   |                  |                 |          |
|             |             |  |                      |             |                          |             | 14             | 5-12-6<br>N=18     | S-6A       | 33.6              |                  |                 |          |
|             |             |  |                      |             |                          |             | 18             | 3-4-9<br>N=13      | S-7        | 31.2              |                  |                 | 77       |
|             |             |  |                      |             |                          |             | 18             | 3-4-6<br>N=10      | S-8        |                   |                  |                 |          |
| 3           |             | 18.5 <b>CLAYEY SAND WITH GRAVEL (SC)</b> , medium to coarse grained, dark gray with dark bluish gray, wet, very dense  |                      | 20          | ▽                        | 9           | 33-50/4"       | S-9                | 13.6       |                   |                  | 16              |          |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:  
Well protrudes 3 feet above ground surface

Abandonment Method:  
Groundwater monitoring well was installed after completion of drilling

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

| WATER LEVEL OBSERVATIONS |   |
|--------------------------|---|
| ▽                        | Inferred from change in sample moisture |
| ▽                        | Measured with water level indicator     |
| ▼                        | On 02/08/2021                           |

21905 64th Ave W, Ste 100  
Mountlake Terrace, WA

|                            |                              |
|----------------------------|------------------------------|
| Boring Started: 01-06-2021 | Boring Completed: 01-06-2021 |
| Drill Rig: D-70            | Driller: Holocene            |
| Project No.: 81215062      |                              |

# BORING LOG NO. B-P26p

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6225° Longitude: -122.9053°<br><br>Approximate Surface Elev.: 251 (Ft.) +/-   | DEPTH (Ft.)   | WATER LEVEL OBSERVATIONS                       | SAMPLE TYPE                                    | RECOVERY (In.)   | FIELD TEST RESULTS  | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS |  | PERCENT FINES |
|-------------|-------------|---|---|--|--|--|---|------------|-------------------|------------------|--|---------------|
|             |             |   |   |  |  |  |   |            |                   | LL-PL-PI         |  |               |
|             |             | DEPTH ELEVATION (Ft.)   |   |  |  |  |   |            |                   |                  |  |               |
| 3           |             | <p><b>CLAYEY SAND WITH GRAVEL (SC)</b>, medium to coarse grained, dark gray with dark bluish gray, wet, very dense (<i>continued</i>) dark bluish gray, very dense, with dark bluish gray gravel</p>                    | <p>30</p> <p>35</p> <p>40</p> <p>45</p> <p>50</p>   | <p>7</p> <p>4</p> <p>0</p> <p>17</p> <p>18</p> | <p>7</p> <p>4</p> <p>0</p> <p>17</p> <p>18</p> | <p>26-50/4"</p> <p>50/5"</p> <p>20-50/2"</p> <p>13-18-9 N=27</p> <p>7-11-16 N=27</p> | <p>S-10</p> <p>S-11</p> <p>S-12</p> <p>S-13</p> <p>S-14</p> |            |                   |                  |  |               |
|             |             | <p>no sample recovery</p> <p>40.2 dark brown</p> <p><b>FAT CLAY (CH)</b>, bluish gray, wet, very stiff</p> <p>211+/-</p> <p>48.5</p> <p><b>SANDY FAT CLAY (CL-ML)</b>, bluish gray, wet, very stiff</p> <p>202.5+/-</p> | <p style="text-align: center;">-Caved Material-</p> | <p style="text-align: center;">▽</p>           |  |  |   |            |                   |                  |  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

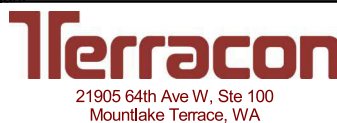
Abandonment Method:  
Groundwater monitoring well was installed after completion of drilling

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator
- ▽ On 02/08/2021



Boring Started: 01-06-2021

Boring Completed: 01-06-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT 8/23/21

# BORING LOG NO. B-P26p

**PROJECT: Proposed Industrial Park - Chehalis PWI Site**

**CLIENT: Puget Western Inc  
Bothell, WA**

**SITE: 2800 Jackson Highway  
Chehalis, WA**

| MODEL LAYER                           | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6225° Longitude: -122.9053°<br><br>Approximate Surface Elev.: 251 (Ft.) +/- | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | FIELD TEST RESULTS | SAMPLE NO. | WATER CONTENT (%) | ATTERBERG LIMITS | PERCENT FINES |
|---------------------------------------|-------------|---|-------------|--------------------------|-------------|----------------|--------------------|------------|-------------------|------------------|---------------|
|                                       |             |   |             |                          |             |                |                    |            |                   | LL-PL-PI         |               |
| 4                                     |             | <b>SANDY FAT CLAY (CL-ML),</b><br>bluish gray, wet, very stiff<br>(continued) 51.5 199.5+/-   |             |                          | X           | 18             | 9-8-13<br>N=21     | S-15       | 29.4              |                  | 53            |
| <b>Boring Terminated at 51.5 Feet</b> |             |   |             |                          |             |                |                    |            |                   |                  |               |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:  
Hollow Stem Auger

See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (if any).

Notes:

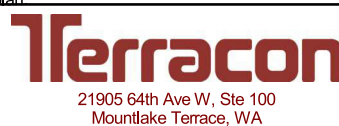
Abandonment Method:  
Groundwater monitoring well was installed after completion of drilling

See [Supporting Information](#) for explanation of symbols and abbreviations.

Elevations were interpolated from a topographic site plan

**WATER LEVEL OBSERVATIONS**

- ▽ Inferred from change in sample moisture
- ▽ Measured with water level indicator
- ▽ On 02/08/2021



Boring Started: 01-06-2021

Boring Completed: 01-06-2021

Drill Rig: D-70

Driller: Holocene

Project No.: 81215062

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT 8/23/21



# TEST PIT LOG NO. TP-A09

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6245° Longitude: -122.9020°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | SAMPLE NO. |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|------------|
| 1           |             | <b>TOPSOIL</b> , abundant fine roots, dark brown to black, moist, very soft  |             |                          |             |                |            |
|             |             | 1.2 orange mottling, trace fine roots  | 251+/-      |                          | ☞           |                | S-1        |
|             |             | <b>SANDY FAT CLAY (CH)</b> , trace fine roots, gray and orange, moist to wet, very soft to soft  |             |                          |             |                |            |
|             |             | 2.7 perched groundwater above the clay layer   | 249.5+/-    |                          |             |                |            |
|             |             | 3.2 <b>SILTY CLAY (CL-ML)</b> , low to medium plasticity, grayish brown with orange mottling, moist, medium stiff  | 249+/-      |                          |             |                |            |
|             |             | <b>SANDY FAT CLAY (CH)</b> , grayish brown with orange mottling, moist to wet, medium stiff, interbedded silt and gravel, sand content increases with depth  |             |                          |             |                |            |
| 2           |             | gravel lense   |             |                          |             |                |            |
|             |             | wet  |             | ▽                        |             |                |            |
|             |             | silt lense, trace gravel and weathered rock  |             |                          | ☞           |                | S-2        |
|             |             | 10.2 with gravel and cobbles 8 inch maximum grain size   | 242+/-      |                          |             |                |            |
|             |             | <b>Test Pit Terminated at 10.2 Feet</b>  |             |                          |             |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation             | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:   |
| Abandonment Method:<br>Backfilled with spoils |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>               |  | Test Pit Started: 12-21-2020<br>Excavator: ECR 88<br>Project No.: 81215062 |
| ▽ While excavating                            | 21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA   | Test Pit Completed: 12-21-2020<br>Operator: Green Earthworks               |



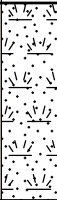



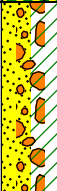



# TEST PIT LOG NO. TP-A15

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6226° Longitude: -122.8987°<br><br>Approximate Surface Elev.: 261 (Ft.) +/-<br>ELEVATION (Ft.)                             | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE   | RECOVERY (In.)  | SAMPLE NO. |
|-------------|---|--|-------------|--------------------------|---|---|------------|
| 1           |    | <b>TOPSOIL</b> , abundant fine roots, dark brown to black, moist to wet, soft<br><br>brown to dark brown, with orange mottling, less fine roots<br>seepage, possible perched groundwater | 2.0         | 259+/-                   |    |    | S-1        |
| 2           |   | <b>SANDY FAT CLAY (CH)</b> , trace gravel, gray and orange, moist to wet, medium stiff to stiff  | 6.5         | 254.5+/-                 | 5   |    | S-2        |
|             |  | <b>POORLY GRADED SAND WITH CLAY AND GRAVEL (SP-SC)</b> , orangish brown, moist to wet, medium dense to dense, silt content increases with depth, with cobbles                            | 8.5         | 252.5+/-                 |  | S-3   |            |
|             |  | <b>SANDY FAT CLAY (CH)</b> , orangish brown to grayish brown, moist to wet, medium stiff   | 10.5        | 250.5+/-                 | 10  |  | S-4        |
|             |   | <b>Test Pit Terminated at 10.5 Feet</b>  |             |                          |   |   |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|  |  |  |
|--|--|--|
| Advancement Method:<br>Excavation  | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:<br><br>Difficult to locate stabilized (regional) groundwater level due to wet weather and perched groundwater flowing into the test pit |
| Abandonment Method:<br>Backfilled with spoils  |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>  |   | Test Pit Started: 12-17-2020<br>Excavator: ECR 88<br>Project No.: 81215062   |
|  While excavating | 21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA   | Test Pit Completed: 12-17-2020<br>Operator: Green Earthworks   |

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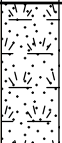
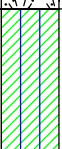
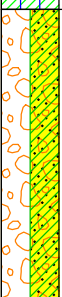



# TEST PIT LOG NO. TP-B08

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

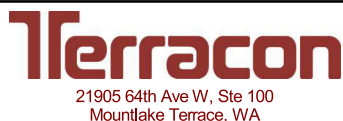
**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                             | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6243° Longitude: -122.9029°<br><br>Approximate Surface Elev.: 250 (Ft.) +/-<br>ELEVATION (Ft.)                     | DEPTH (Ft.)      | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | SAMPLE NO. |
|---|---|--|------------------|--------------------------|-------------|----------------|------------|
| 1                                       |    | <b>TOPSOIL</b> , abundant fine roots, brown to dark brown, moist, very soft<br><br>orange mottling, trace fine roots, organics   | 1.5<br>248.5+/-  | ▽                        |             |                | S-1        |
| 2                                       |    | <b>SILTY CLAY (CL-ML)</b> , trace fine roots, low to medium plasticity, olive gray to grayish brown, moist to wet, soft to medium stiff<br>seepage, possible perched groundwater | 3.0<br>247+/-    |                          |             |                |            |
|   |   | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , orangish brown to brown, moist to wet, medium dense to dense<br><br>decrease in gravel content                            | 6.0<br>244+/-    |                          |             |                | S-2        |
| 2                                       |  | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , orangish brown to brown, moist to wet, medium dense to dense<br><br>with thin bluish gray clay lenses                                      | 9.5<br>240.5+/-  |                          |             |                | S-3        |
|   |  | <b>FAT CLAY WITH SAND (CH)</b> , trace gravel, gray with orange mottling, moist, medium stiff to stiff   | 10.5<br>239.5+/- |                          |             |                | S-4        |
| <b>Test Pit Terminated at 10.5 Feet</b> |   |  |                  |                          |             |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation                     | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:<br><br>Difficult to locate stabilized (regional) groundwater level due to wet weather and perched groundwater flowing into the test pit |
| Abandonment Method:<br>Backfilled with spoils         |  |  |
| <b>WATER LEVEL OBSERVATIONS</b><br>▽ While excavating |  | Test Pit Started: 12-18-2020<br>Excavator: ECR 88<br>Project No.: 81215062   |
|   |  | Test Pit Completed: 12-18-2020<br>Operator: Green Earthworks   |



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# TEST PIT LOG NO. TP-C12

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6227° Longitude: -122.9012°<br><br>Approximate Surface Elev.: 254 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | SAMPLE NO. |
|-------------|-------------|--|-------------|--------------------------|-------------|----------------|------------|
| 1           |             | <b>TOPSOIL</b> , abundant fine roots, brown to dark brown, moist, very soft  |             |                          |             |                |            |
|             | 1.2         |  | 253+/-      | ▽                        |             |                |            |
|             | 1.7         | <b>SANDY FAT CLAY (CH)</b> , trace fine roots, gray and orange, wet, soft perched groundwater above the clay layer   | 252.5+/-    | ☞                        |             |                | S-1        |
|             | 3.0         | <b>SILTY CLAY (CL-ML)</b> , low to medium plasticity, olive gray to grayish brown, moist, soft to medium stiff   | 251+/-      |                          |             |                |            |
|             | 3.0         | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , orange to orangish brown, moist, medium dense to dense  | 251+/-      |                          |             |                | S-2        |
|             | 5           | grayish brown with orange mottling interbedded clay  | 5           |                          |             |                | S-3        |
|             | 5           | increase in silt and sand content  | 5           |                          |             |                | S-4        |
|             | 10.0        |  | 244+/-      |                          |             |                | S-5        |
|             |             | <b>Test Pit Terminated at 10 Feet</b>  | 10          |                          |             |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation             | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:<br><br>Difficult to locate stabilized (regional) groundwater level due to wet weather and perched groundwater flowing into the test pit |
| Abandonment Method:<br>Backfilled with spoils |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>               |  | Test Pit Started: 12-17-2020<br>Excavator: ECR 88<br>Project No.: 81215062   |
| ▽ While excavating                            | 21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA   | Test Pit Completed: 12-17-2020<br>Operator: Green Earthworks   |

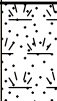




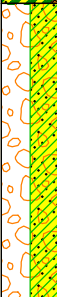


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# TEST PIT LOG NO. TP-C16

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6218° Longitude: -122.8991°<br><br>Approximate Surface Elev.: 260 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS   | SAMPLE TYPE   | RECOVERY (In.) | SAMPLE NO. |
|-------------|---|--|-------------|--|---|----------------|------------|
| 1           |    | <b>TOPSOIL</b> , abundant fine roots, dark brown to black, moist, very soft<br><br>brown to dark brown, trace fine roots                                     |             |  |   |                |            |
|             |   | 2.0 possible perched groundwater above sandy silt with gravel layer  | 258+/-      |   |   |                | S-1        |
|             |    | <b>SANDY FAT CLAY WITH GRAVEL (CH)</b> , gray and orange, moist to wet, medium stiff<br><br>gravel content increases with depth                              |             |  |   |                |            |
|             |   | 3.0  | 257+/-      |   |  |                | S-2        |
|             |   | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , with cobbles, orange to orangish brown, moist to wet, medium dense to dense                           |             |  |   |                |            |
|             |   | 6.0  | 254+/-      |  |   |                | S-3        |
| 2           |  | <b>SANDY FAT CLAY (CH)</b> , trace gravel and cobbles, orangish brown, moist, soft to medium stiff<br><br>grayish brown                                      |             |  |   |                |            |
|             |   | 11.0   | 249+/-      |  |   |                |            |
|             |   | <b>Test Pit Terminated at 11 Feet</b>  |             |  |   |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation   | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:<br><br>Difficult to locate stabilized (regional) groundwater level due to wet weather and perched groundwater flowing into the test pit |
| Abandonment Method:<br>Backfilled with spoils   |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>   |   | While excavating   |
| <br>21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA |  | Test Pit Started: 12-17-2020<br><br>Excavator: ECR 88<br><br>Project No.: 81215062   |
|   |  | Test Pit Completed: 12-17-2020<br><br>Operator: Green Earthworks   |




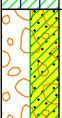
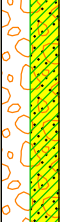

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

# TEST PIT LOG NO. TP-E07

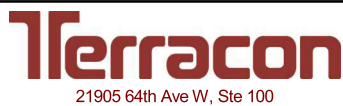
**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6238° Longitude: -122.9044°<br><br>Approximate Surface Elev.: 249 (Ft.) +/-<br>ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | SAMPLE NO. |
|-------------|---|---|-------------|--------------------------|-------------|----------------|------------|
| 1           |    | <b>TOPSOIL</b> , abundant fine roots, brown to dark brown, moist, very soft   | 0.8         |                          |             |                |            |
|             |    | <b>SANDY FAT CLAY (CH)</b> , fine roots, grayish brown with orange mottling, moist, very soft to soft   | 2.0         |                          | ✋           |                | S-1        |
|             |    | <b>SILTY CLAY (CL-ML)</b> , low to medium plasticity, olive gray to olive gray, moist to wet, soft to medium stiff, clay content decreases and sand content increases with depth<br>seepage, possible perched groundwater | 3.0         | ▽                        |             |                |            |
|             |    | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , grayish brown to orangish brown, moist, dense  | 6.4         |                          | ✋           |                | S-2        |
| 2           |   | <b>FAT CLAY WITH SAND (CH)</b> , light gray with orange mottling, moist, medium stiff to stiff<br><br>orangish brown<br><br>sand content decreases  | 10.5        |                          | ✋           |                | S-3        |
|             |  | <b>FAT CLAY (CH)</b> , trace sand, gray with purple mottling, stiff, trace weathered rock   | 11.5        |                          | ✋           |                | S-4        |
|             |   | <b>Test Pit Terminated at 11.5 Feet</b>   |             |                          |             |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation             | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:<br><br>Difficult to locate stabilized (regional) groundwater level due to wet weather and perched groundwater flowing into the test pit |
| Abandonment Method:<br>Backfilled with spoils |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>               |   | Test Pit Started: 12-18-2020<br>Excavator: ECR 88<br>Project No.: 81215062   |
| ▽ While excavating                            | 21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA   | Test Pit Completed: 12-18-2020<br>Operator: Green Earthworks   |






THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

# TEST PIT LOG NO. TP-E10

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER                           | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6229° Longitude: -122.9029°<br><br>Approximate Surface Elev.: 252 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS  | SAMPLE TYPE   | RECOVERY (In.) | SAMPLE NO. |
|---------------------------------------|---|--|-------------|---|---|----------------|------------|
| 1                                     |    | <b>TOPSOIL</b> , abundant fine roots, brown to dark brown, moist, very soft  | 0.7         |   |   |                |            |
|                                       |    | <b>SANDY FAT CLAY (CH)</b> , fine roots, grayish brown and orange, moist to wet, very soft to soft   | 251.5+/-    |   |    |                | S-1        |
|                                       |    | 2.5 seepage, possible perched groundwater above gravel layer   | 249.5+/-    |  |   |                |            |
|                                       |   | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , orangish brown to reddish brown, wet, dense   | 5           |   |   |                |            |
| 2                                     |  | 6.5 <b>FAT CLAY WITH SAND (CH)</b> , gray with orange mottling, moist, medium stiff  | 245.5+/-    |   |  |                | S-2        |
|                                       |  | gravel lense   | 10.0        |   |   |                |            |
| <b>Test Pit Terminated at 10 Feet</b> |   |  | 242+/-      | 10  |   |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation   | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:<br><br>Difficult to locate stabilized (regional) groundwater level due to wet weather and perched groundwater flowing into the test pit |
| Abandonment Method:<br>Backfilled with spoils   |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>   |   | While excavating   |
| <br>21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA |  | Test Pit Started: 12-18-2020<br>Excavator: ECR 88<br>Project No.: 81215062   |
|   |  | Test Pit Completed: 12-18-2020<br>Operator: Green Earthworks   |

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21



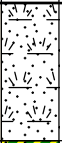



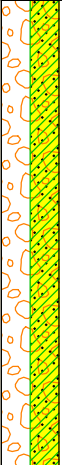
# TEST PIT LOG NO. TP-E12

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG  | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6223° Longitude: -122.9017°<br><br>Approximate Surface Elev.: 254 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS  | SAMPLE TYPE   | RECOVERY (In.) | SAMPLE NO. |
|-------------|--|--|-------------|---|---|----------------|------------|
|             |  | <b>DEPTH</b>   |             |   |   |                |            |
| 1           |   | <b>TOPSOIL</b> , abundant fine roots, brown to dark brown, moist, very soft  |             |   |   |                |            |
|             |  | 1.4  | 252.5+/-    |   |  |                | S-1        |
|             |   | <b>SANDY FAT CLAY (CH)</b> , fine roots, grayish brown with orange mottling, moist, very soft to soft  |             |   |   |                |            |
|             |  | 2.7 seepage, possible perched groundwater  | 251.5+/-    |  |   |                |            |
| 2           |  | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , brown to grayish brown, wet, dense<br><br>orangish brown to reddish brown layer 3.7 to 4.5 feet       |             |   |   |                |            |
|             |  | 7.5 test pit terminated due to the high water level  | 246.5+/-    |   |   |                |            |
|             |  | <b>Test Pit Terminated at 7.5 Feet</b>   |             |   |   |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation   | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:<br><br>Difficult to locate stabilized (regional) groundwater level due to wet weather and perched groundwater flowing into the test pit |
| Abandonment Method:<br>Backfilled with spoils   |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>   |   | While excavating   |
| <br>21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA |  | Test Pit Started: 12-18-2020<br>Excavator: ECR 88<br>Project No.: 81215062   |
|   |  | Test Pit Completed: 12-18-2020<br>Operator: Green Earthworks   |

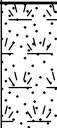

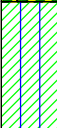

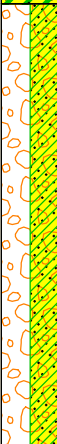
# TEST PIT LOG NO. TP-E15

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_8/23/21

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6214° Longitude: -122.9002°<br><br>Approximate Surface Elev.: 259 (Ft.) +/-<br>ELEVATION (Ft.)                             | DEPTH (Ft.)      | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | SAMPLE NO. |
|-------------|---|--|------------------|--------------------------|-------------|----------------|------------|
| 1           |    | <b>TOPSOIL</b> , abundant fine roots, dark brown, moist, very soft   | 1.3<br>257.5+/-  |                          |             |                | S-1        |
|             |    | <b>SANDY FAT CLAY (CH)</b> , with fine roots, yellowish brown with orange mottling, moist, very soft to soft   | 3.2<br>256+/-    |                          |             |                |            |
|             |    | <b>SILTY CLAY (CL-ML)</b> , trace fine roots, low to medium plasticity, orange and gray, moist, soft to medium stiff<br><br>clay content decreases and sand content increases with depth | 4.5<br>254.5+/-  | ▽                        | ✋           |                | S-2        |
|             |   | <b>CLAYEY SAND (SC)</b> , olive gray to brown, wet, loose to medium dense  | 6.0<br>253+/-    |                          |             |                |            |
| 2           |  | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , with cobbles, brown to orangish brown, wet, loose to medium dense   | 10.5<br>248.5+/- |                          | ✋           |                | S-3        |
|             |   | <b>Test Pit Terminated at 10.5 Feet</b>  |                  |                          |             |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.



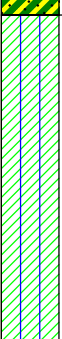
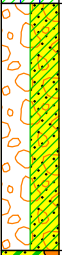


|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation             | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:   |
| Abandonment Method:<br>Backfilled with spoils |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>               |   | Test Pit Started: 12-18-2020<br>Excavator: ECR 88<br>Project No.: 81215062 |
| ▽ While excavating                            | 21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA   | Test Pit Completed: 12-18-2020<br>Operator: Green Earthworks               |

# TEST PIT LOG NO. TP-P04

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6254° Longitude: -122.9029°<br><br>Approximate Surface Elev.: 249 (Ft.) +/-<br>ELEVATION (Ft.)  | DEPTH (Ft.)     | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | SAMPLE NO. |
|-------------|---|---|-----------------|--------------------------|-------------|----------------|------------|
| 1           |    | <b>TOPSOIL</b> , abundant fine roots, brown to dark brown, moist, very soft<br>orange mottling, with fine roots   | 0.8<br>248+/-   |                          |             |                |            |
|             |    | <b>SANDY FAT CLAY (CH)</b> , with fine roots, gray and orange, moist to wet, very soft<br>perched groundwater above clay layer                                | 2.2<br>247+/-   |                          | ✋           |                | S-1        |
|             |    | <b>SILTY CLAY (CL-ML)</b> , low to medium plasticity, grayish brown, moist, soft to medium stiff<br>thin gravel lense<br>gray                                 | 5.5<br>243.5+/- |                          |             |                |            |
|             |   | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , with cobbles, orangish brown, moist, medium dense to dense, gravel content decreases with depth<br>wet | 8.0<br>241+/-   | ▽                        |             |                |            |
|             |  | <b>CLAYEY SAND WITH GRAVEL (SC)</b> , orangish brown to gray, moist, dense  | 9.0<br>240+/-   |                          |             |                |            |
|             |  | <b>SANDY FAT CLAY (CH)</b> , trace gravel, gray to dark gray, moist, very soft  | 10.0<br>239+/-  |                          |             |                |            |
|             |   | <b>Test Pit Terminated at 10 Feet</b>   | 10              |                          |             |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation             | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:<br>Difficult to locate stabilized (regional) groundwater level due to wet weather and perched groundwater flowing into the test pit |
| Abandonment Method:<br>Backfilled with spoils |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>               |   | Test Pit Started: 12-21-2020<br>Excavator: ECR 88<br>Project No.: 81215062   |
| ▽ While excavating                            | 21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA   | Test Pit Completed: 12-21-2020<br>Operator: Green Earthworks   |

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATATEMPLATE.GDT\_8/23/21





# TEST PIT LOG NO. TP-P05

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

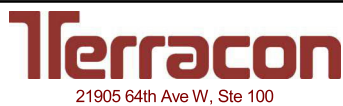
**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PU TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6239° Longitude: -122.9000°<br><br>Approximate Surface Elev.: 268 (Ft.) +/-<br>ELEVATION (Ft.)                 | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | SAMPLE NO. |
|-------------|---|--|-------------|--------------------------|-------------|----------------|------------|
| 1           |    | <b>TOPSOIL</b> , abundant fine roots, brown to dark brown, moist, very soft  | 267+/-      |                          |             |                |            |
|             | 1.0   |  |             |                          |             |                |            |
|             |    | <b>SANDY FAT CLAY (CH)</b> , with fine roots, gray and orange, moist to wet, very soft to soft seepage, possible perched groundwater above clay layer                        | 266.5+/-    | ☞                        |             |                | S-1        |
|             | 1.6   |  |             |                          |             |                |            |
|             |   | <b>SILTY CLAY (CL-ML)</b> , trace fine roots, low to medium plasticity, orange with gray mottling, moist, soft to medium stiff<br>at 2 feet, an old drainage was encountered |             | ☞                        |             |                | S-2        |
|             | 6.5   |  |             |                          |             |                |            |
| 2           |  | <b>LEAN CLAY (CL)</b> , trace organics, medium to high plasticity, grayish brown with orange and purple mottling, moist, medium stiff  | 261.5+/-    |                          |             |                | S-3        |
|             | 10.3  |  | 257.5+/-    |                          |             |                |            |
|             |   | <b>Test Pit Terminated at 10.3 Feet</b>  |             |                          |             |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

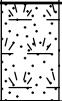

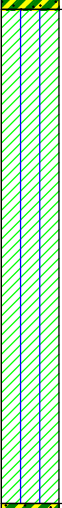

|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation                         | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:<br><br>Difficult to locate stabilized (regional) groundwater level due to wet weather and perched groundwater flowing into the test pit |
| Abandonment Method:<br>Backfilled with spoils             |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>                           |   | Test Pit Started: 12-17-2020<br>Excavator: ECR 88<br>Project No.: 81215062   |
| <i>Long-term, steady-flow groundwater not encountered</i> | 21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA   | Test Pit Completed: 12-17-2020<br>Operator: Green Earthworks   |

# TEST PIT LOG NO. TP-P06

**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

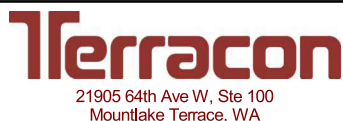
**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6230° Longitude: -122.8985°<br><br>Approximate Surface Elev.: 266 (Ft.) +/-<br>ELEVATION (Ft.)  | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | SAMPLE NO. |
|-------------|---|---|-------------|--------------------------|-------------|----------------|------------|
| 1           |    | <b>TOPSOIL</b> , trace gravels, brown to dark brown, moist, very soft, abundant fine roots  | 1.0         |                          |             |                |            |
| 2           |    | <b>SANDY FAT CLAY (CH)</b> , trace fine roots, trace gravels, gray and orange, moist to wet, very soft to soft seepage, possible perched groundwater  | 3.0         |                          | ☞           |                | S-1        |
|             |   | <b>SILTY CLAY (CL-ML)</b> , trace fine roots, low to medium plasticity, orange with gray mottling, moist, soft to medium stiff, clay content decreases and sand content increases with depth<br><br>orangish brown with gray mottling, trace gravel | 8.0         |                          | ☞           |                | S-2        |
|             |  | <b>SANDY FAT CLAY (CH)</b> , low plasticity, gray, moist, medium stiff  | 10.0        |                          | ☞           |                | S-3        |
|             |   | <b>Test Pit Terminated at 10 Feet</b>   | 10          |                          |             |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation   | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:   |
| Abandonment Method:<br>Backfilled with spoils   |  |  |
| <b>WATER LEVEL OBSERVATIONS</b><br><br>Long-term, steady-flow groundwater not encountered |  | Test Pit Started: 12-17-2020<br>Excavator: ECR 88<br>Project No.: 81215062 |
|   |  | Test Pit Completed: 12-17-2020<br>Operator: Green Earthworks               |





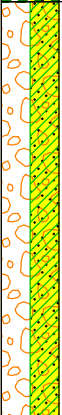
THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

# TEST PIT LOG NO. TP-P07

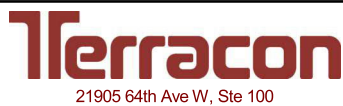
**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG  | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6212° Longitude: -122.9007°<br><br>Approximate Surface Elev.: 258 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (In.) | SAMPLE NO. |
|-------------|--|--|-------------|--------------------------|-------------|----------------|------------|
| 1           |   | <b>TOPSOIL</b> , abundant organics, reddish brown to dark brown, moist, very soft  | 1.1         |                          |             |                |            |
| 2           |   | <b>FAT CLAY WITH SAND (CH)</b> , trace fine roots, dark brown to grayish brown, with orange mottling, moist to wet, very soft                                | 3.5         | ▽                        | Hand        |                | S-1        |
| 2           |  | <b>WELL GRADED GRAVEL WITH CLAY AND SAND (GW-GC)</b> , with cobbles, orangish brown to brown, moist to wet, loose to medium dense                            | 7.7         | ▽                        | Hand        |                | S-2        |
|             |  | test pit terminated due to the high water level<br><b>Test Pit Terminated at 7.7 Feet</b>  | 7.7         |                          |             |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|   |  |  |
|---|--|--|
| Advancement Method:<br>Excavation             | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:   |
| Abandonment Method:<br>Backfilled with spoils |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>               |   | Test Pit Started: 12-18-2020<br>Excavator: ECR 88<br>Project No.: 81215062 |
| ▽ While excavating                            | 21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA   | Test Pit Completed: 12-18-2020<br>Operator: Green Earthworks               |



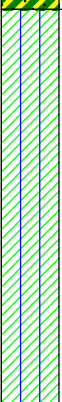

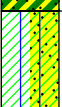
THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_81215062 PROPOSED INDUSTRIAL PARK TERRACON\_DATATEMPLATE.GDT\_8/23/21

# TEST PIT LOG NO. TP-P08


**PROJECT:** Proposed Industrial Park - Chehalis PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**SITE:** 2800 Jackson Highway  
Chehalis, WA

| MODEL LAYER | GRAPHIC LOG   | LOCATION See <a href="#">Exploration Plan</a><br>Latitude: 46.6229° Longitude: -122.9042°<br><br>Approximate Surface Elev.: 251 (Ft.) +/-<br>ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE  | RECOVERY (In.) | SAMPLE NO. |
|-------------|---|--|-------------|--------------------------|--|----------------|------------|
| 1           |    | <b>TOPSOIL</b> , trace gravel, brown to dark brown, moist, very soft, abundant fine roots  | 0.8         |                          |  |                |            |
|             |    | <b>SANDY FAT CLAY (CH)</b> , with fine roots, gray and orange, moist to wet<br><br>1.5 feet, encountered a root mat<br>seepage, possible perched groundwater | 3.0         |                          |   |                | S-1        |
|             |   | <b>SILTY CLAY (CL-ML)</b> , trace organics, low to medium plasticity, grayish brown with orange mottling, moist, soft to medium stiff                        | 7.0         |                          | <br> |                | S-2<br>S-3 |
| 2           |  | <b>SANDY FAT CLAY (CH)</b> , trace gravel, orange, moist, soft to medium stiff   | 9.0         |                          |  |                |            |
|             |  | <b>SILTY CLAY WITH SAND (CL-ML)</b> , low to medium plasticity, gray to grayish brown, moist, stiff  | 10.0        |                          |   |                | S-4        |
|             |   | <b>Test Pit Terminated at 10 Feet</b>  |             |                          |  |                |            |

Stratification lines are approximate. In-situ, the transition may be gradual.

|  |  |  |
|--|--|--|
| Advancement Method:<br>Excavation                  | See <a href="#">Exploration and Testing Procedures</a> for a description of field and laboratory procedures used and additional data (if any).<br><br>See <a href="#">Supporting Information</a> for explanation of symbols and abbreviations.<br><br>Elevation information obtained from Google Earth | Notes:   |
| Abandonment Method:<br>Backfilled with spoils      |  |  |
| <b>WATER LEVEL OBSERVATIONS</b>                    |   | Test Pit Started: 12-18-2020<br>Excavator: ECR 88<br>Project No.: 81215062 |
| Long-term, steady-flow groundwater not encountered | 21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA   | Test Pit Completed: 12-18-2020<br>Operator: Green Earthworks               |

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_ 81215062 PROPOSED INDUSTRIAL.PUJ\_TERRACON\_DATATEMPLATE.GDT\_ 8/23/21

# CPT LOG NO. CPT-A05

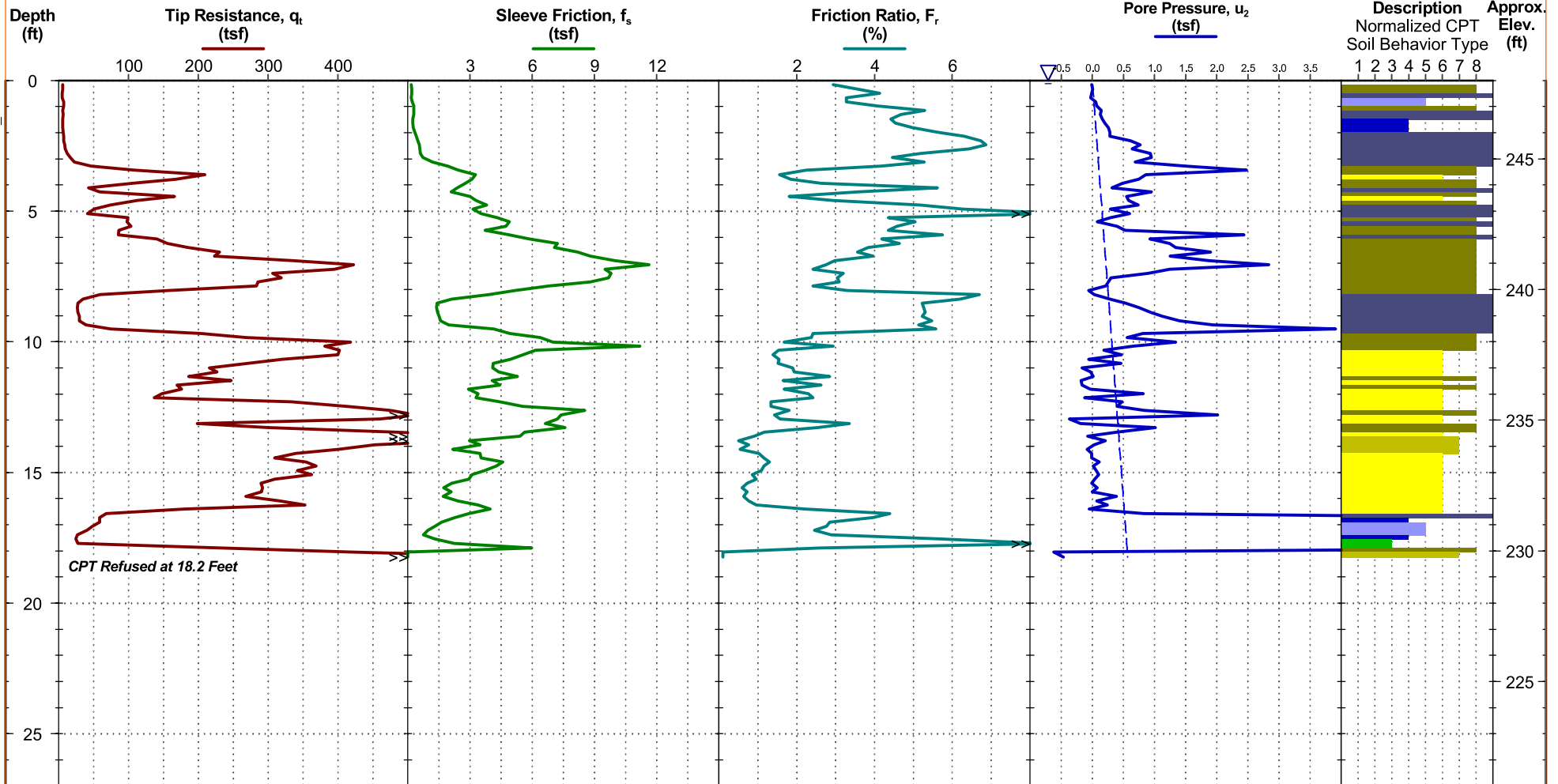
**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 248 ft +/-  
Latitude: 46.6257848°  
Longitude: -122.9042868°



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/7/2021

CPT Completed: 1/7/2021

Rig: Track

Operator: InSitu

Project No.: 81215062



# CPT LOG NO. CPT-A07

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

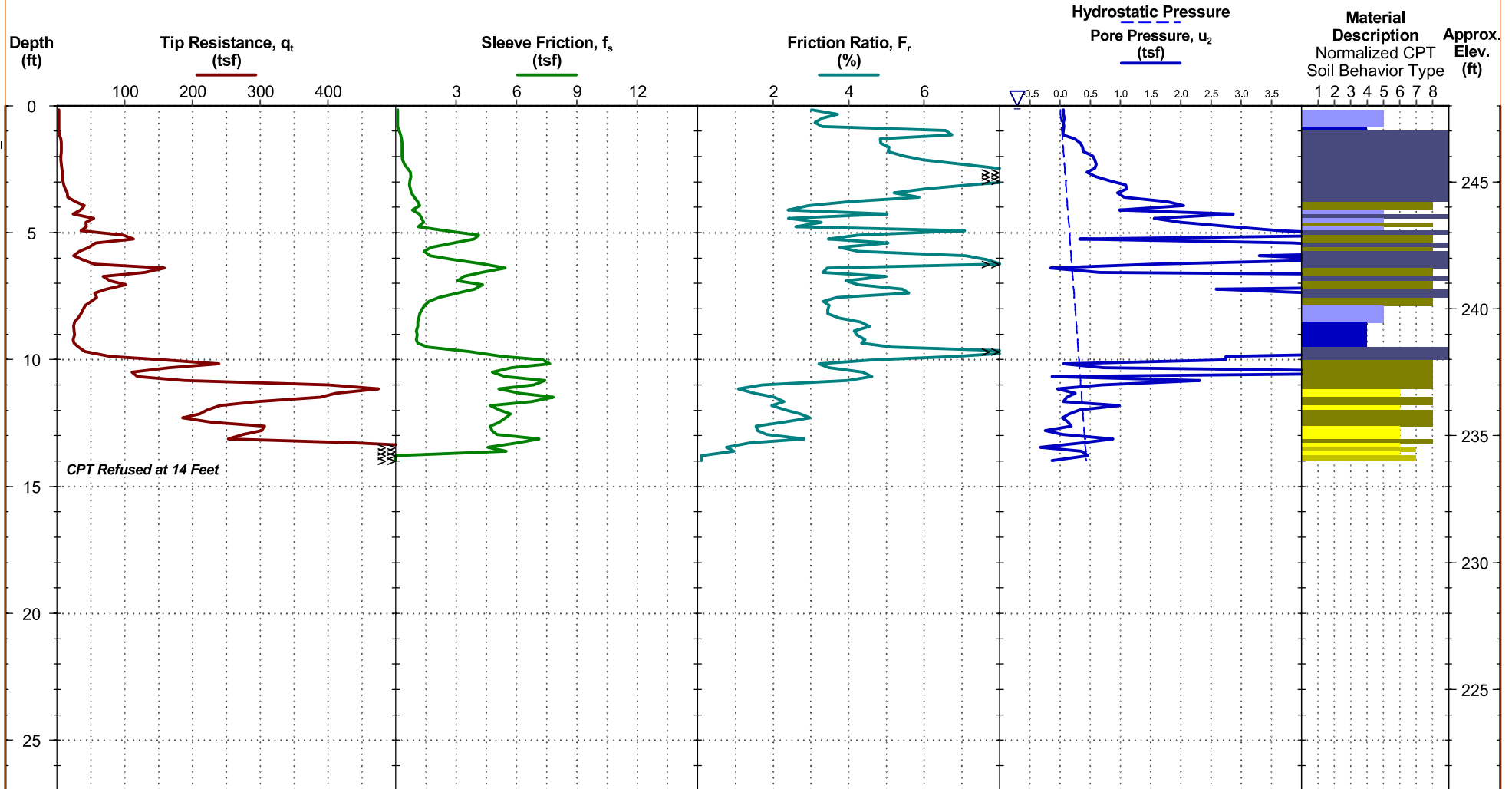
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 248 ft +/-  
Latitude: 46.6251743°  
Longitude: -122.9032261°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/7/2021

CPT Completed: 1/7/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-A08

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

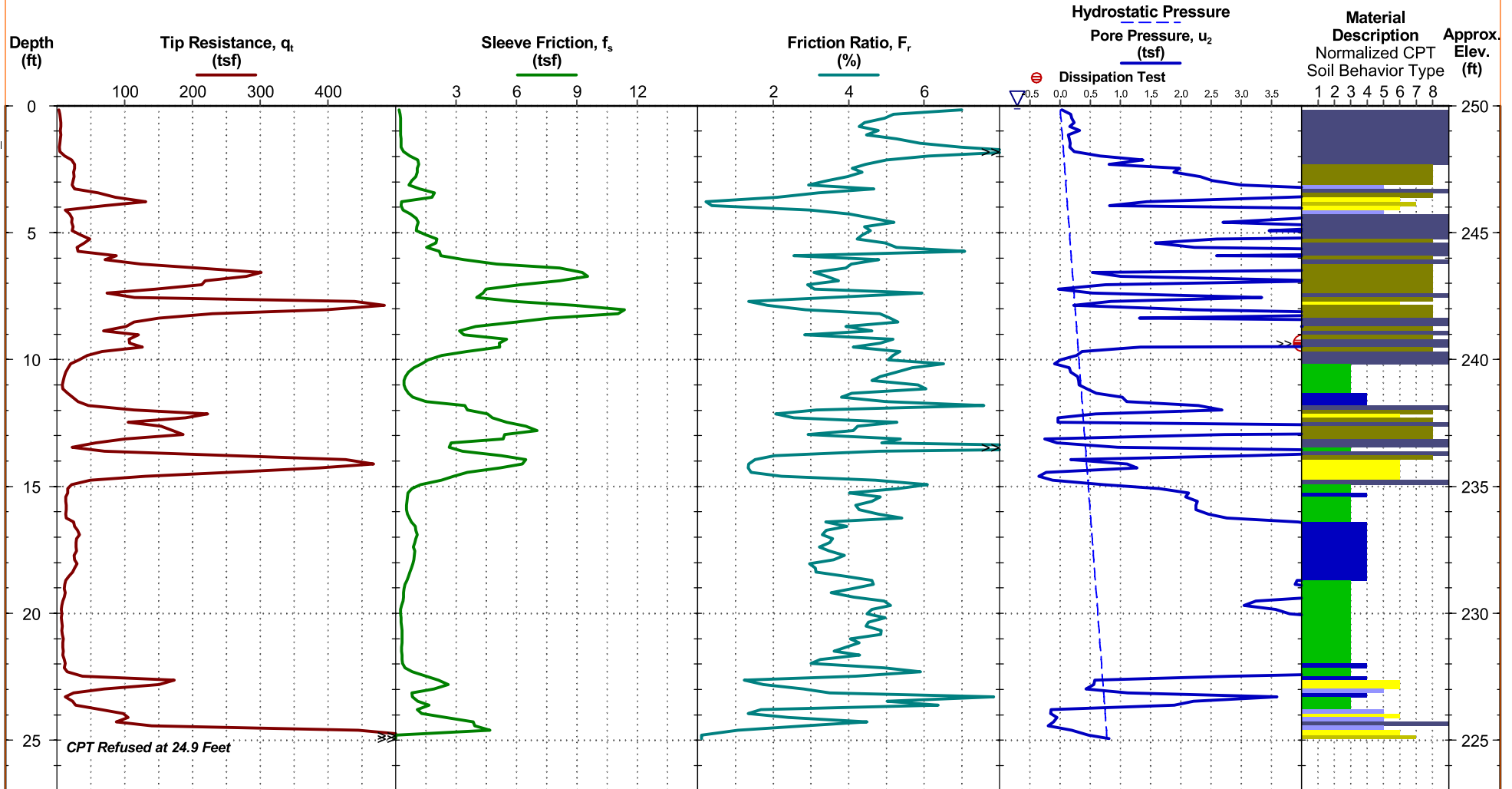
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 250 ft +/-  
Latitude: 46.6248705°  
Longitude: -122.9026954°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/7/2021

CPT Completed: 1/7/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-A09

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

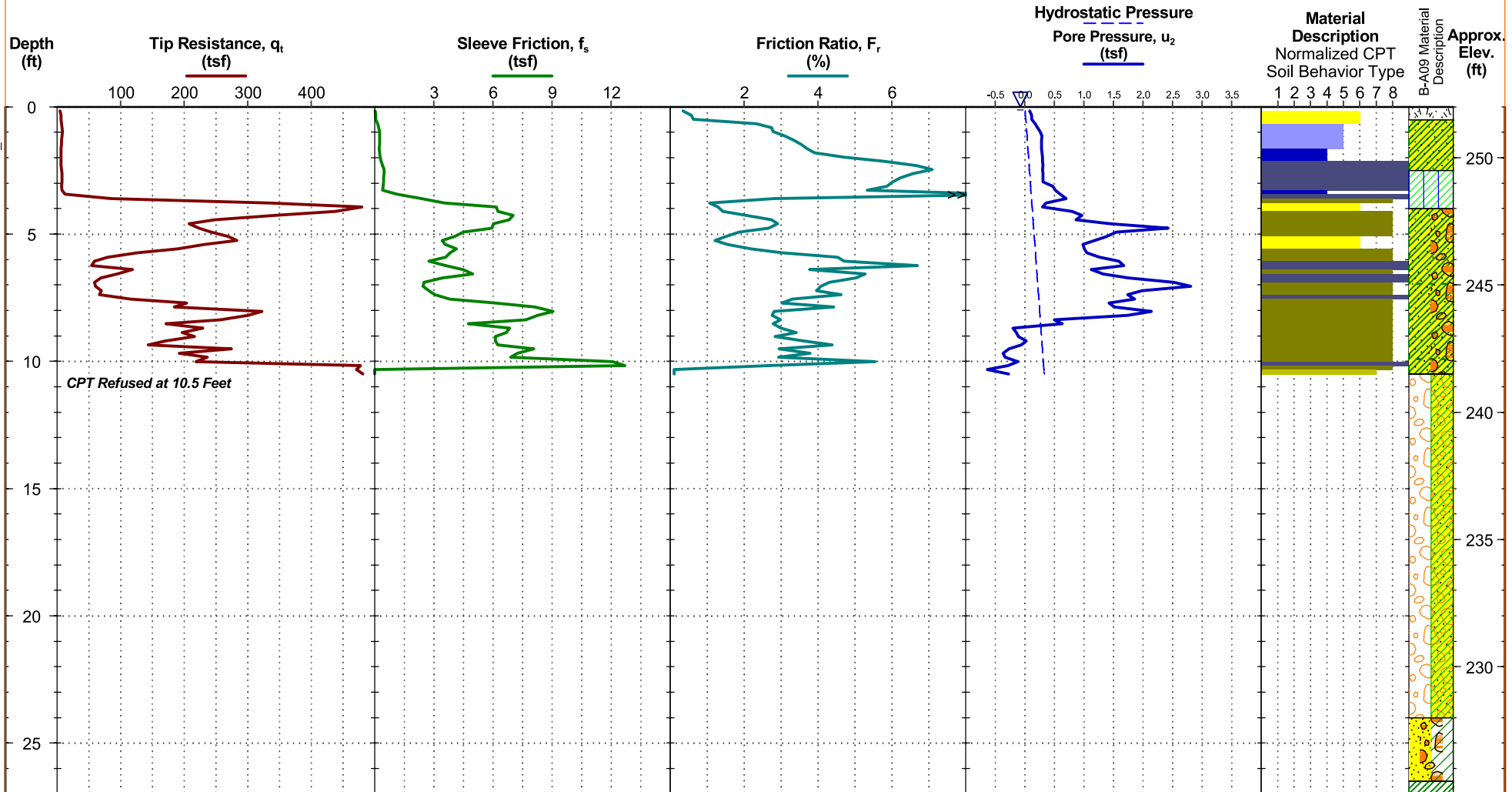
Approx. Surface Elev: 252 ft +/- Adjacent Test: B-A09

Latitude: 46.6245668°

Longitude: -122.9021679°

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

See B-A09 for the adjacent test's full details.

Dead weight of rig used as reaction force.

CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/7/2021

CPT Completed: 1/7/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-A09

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

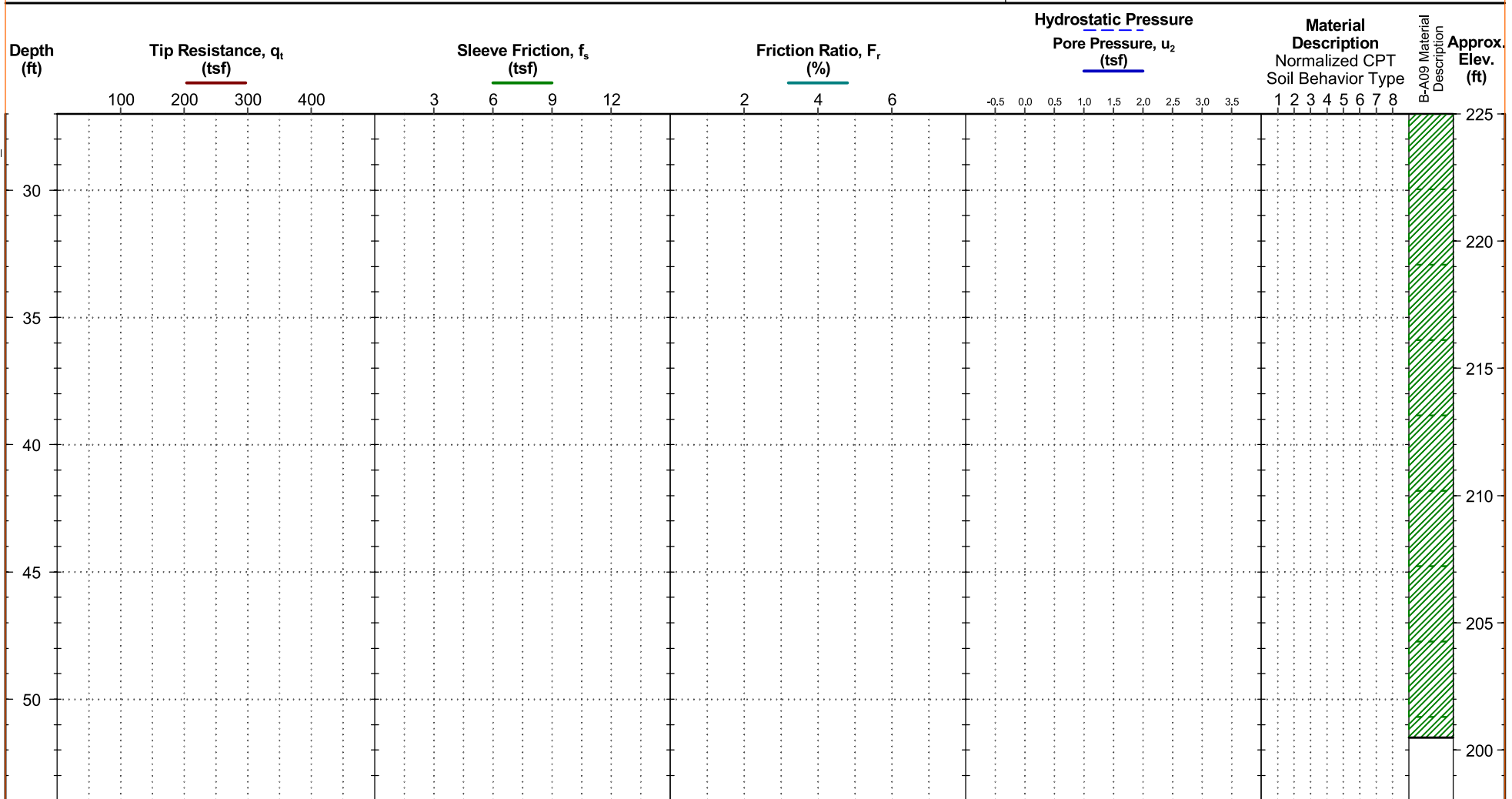
Approx. Surface Elev: 252 ft +/- Adjacent Test: B-A09

Latitude: 46.6245668°

Longitude: -122.9021679°

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.GPJ TERRACON\_DATATEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

See B-A09 for the adjacent test's full details.

Dead weight of rig used as reaction force.

CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/7/2021

CPT Completed: 1/7/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-A10

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

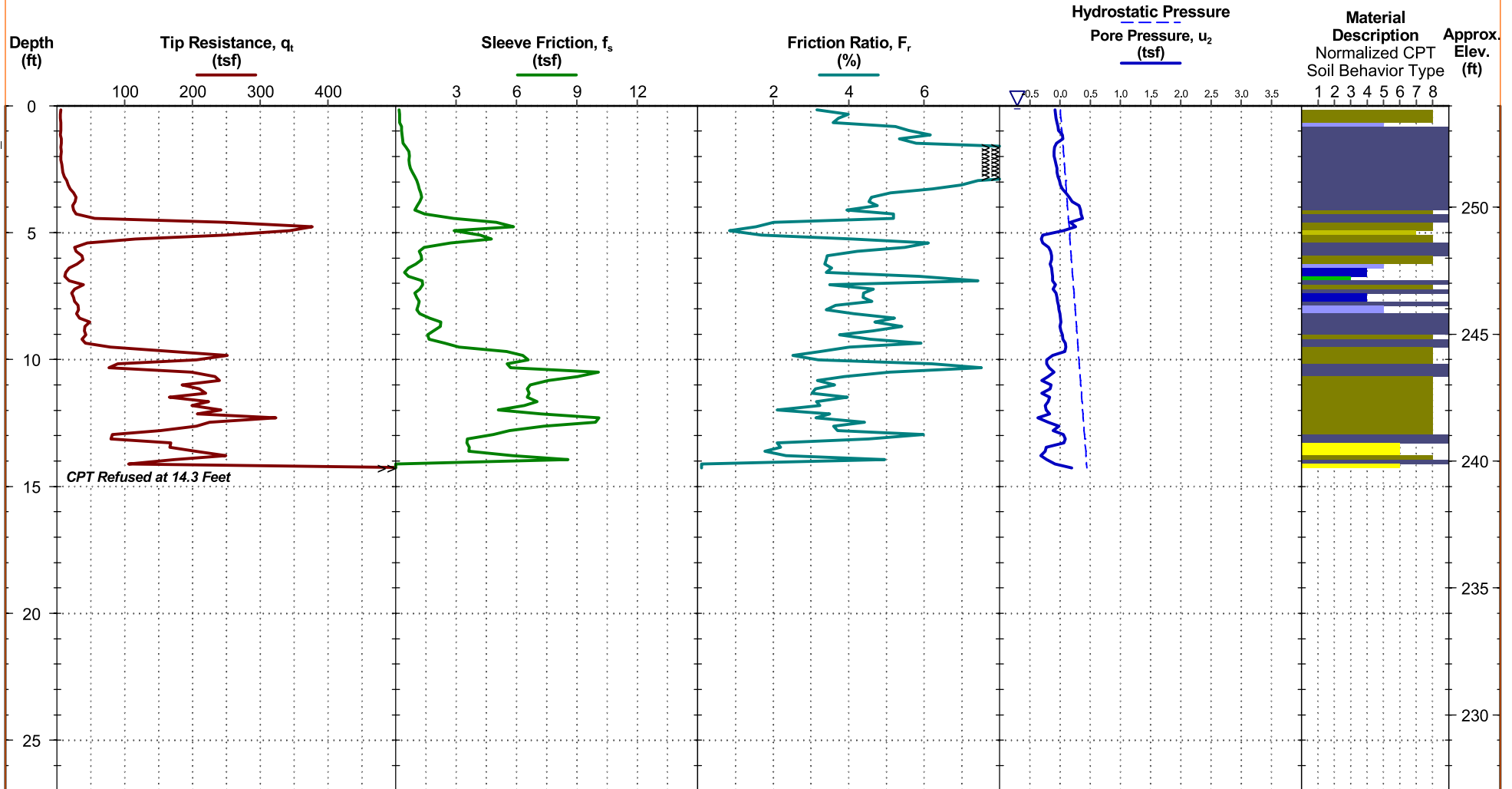
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 254 ft +/-  
Latitude: 46.624262°  
Longitude: -122.9016368°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/7/2021

CPT Completed: 1/7/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-A12

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

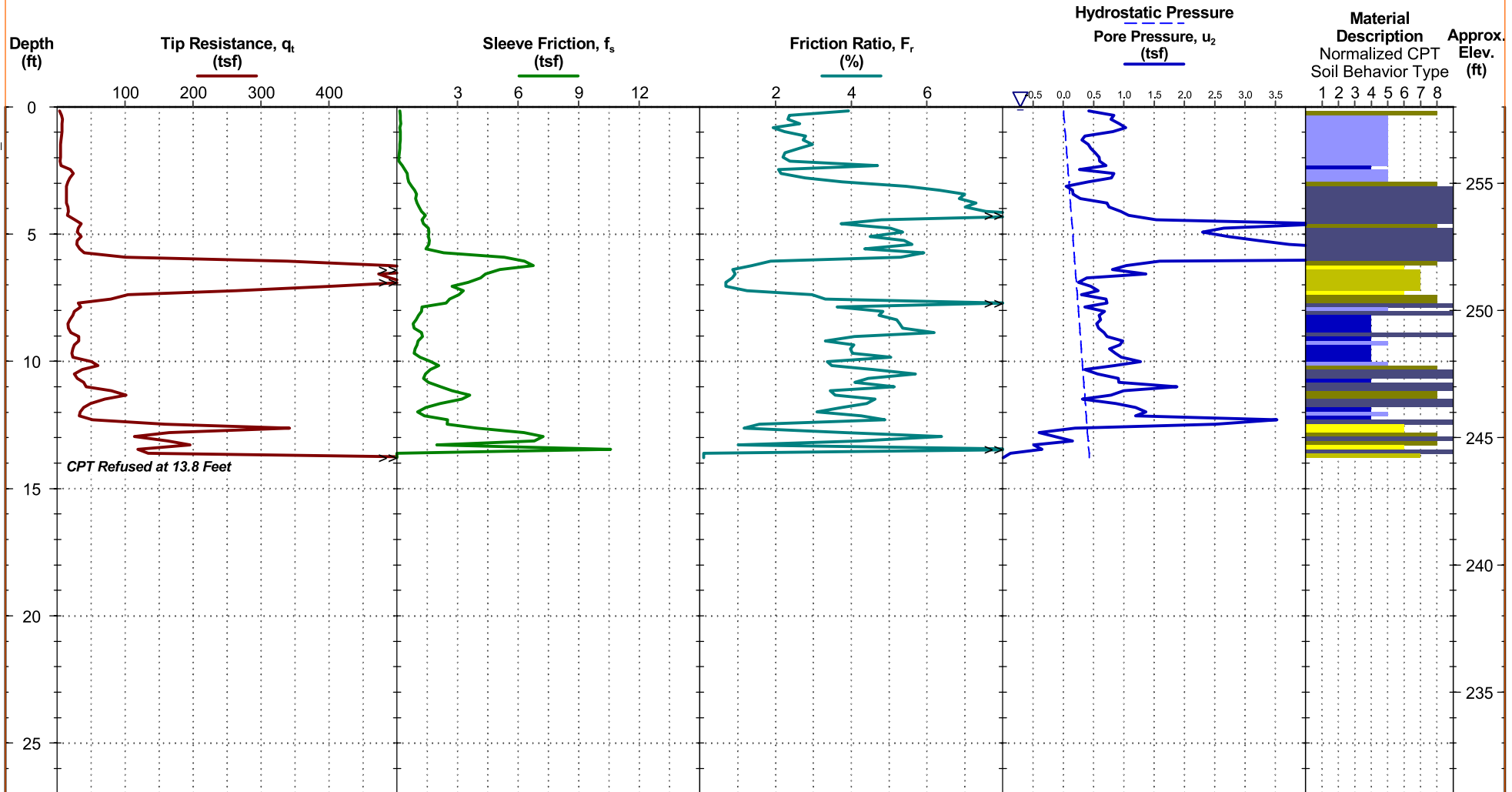
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 258 ft +/-  
Latitude: 46.6236537°  
Longitude: -122.9005756°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**  
▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))

Probe no. DDG1394



CPT Started: 1/7/2021  
Rig: Track  
Project No.: 81215062

CPT Completed: 1/7/2021  
Operator: InSitu

# CPT LOG NO. CPT-A13

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

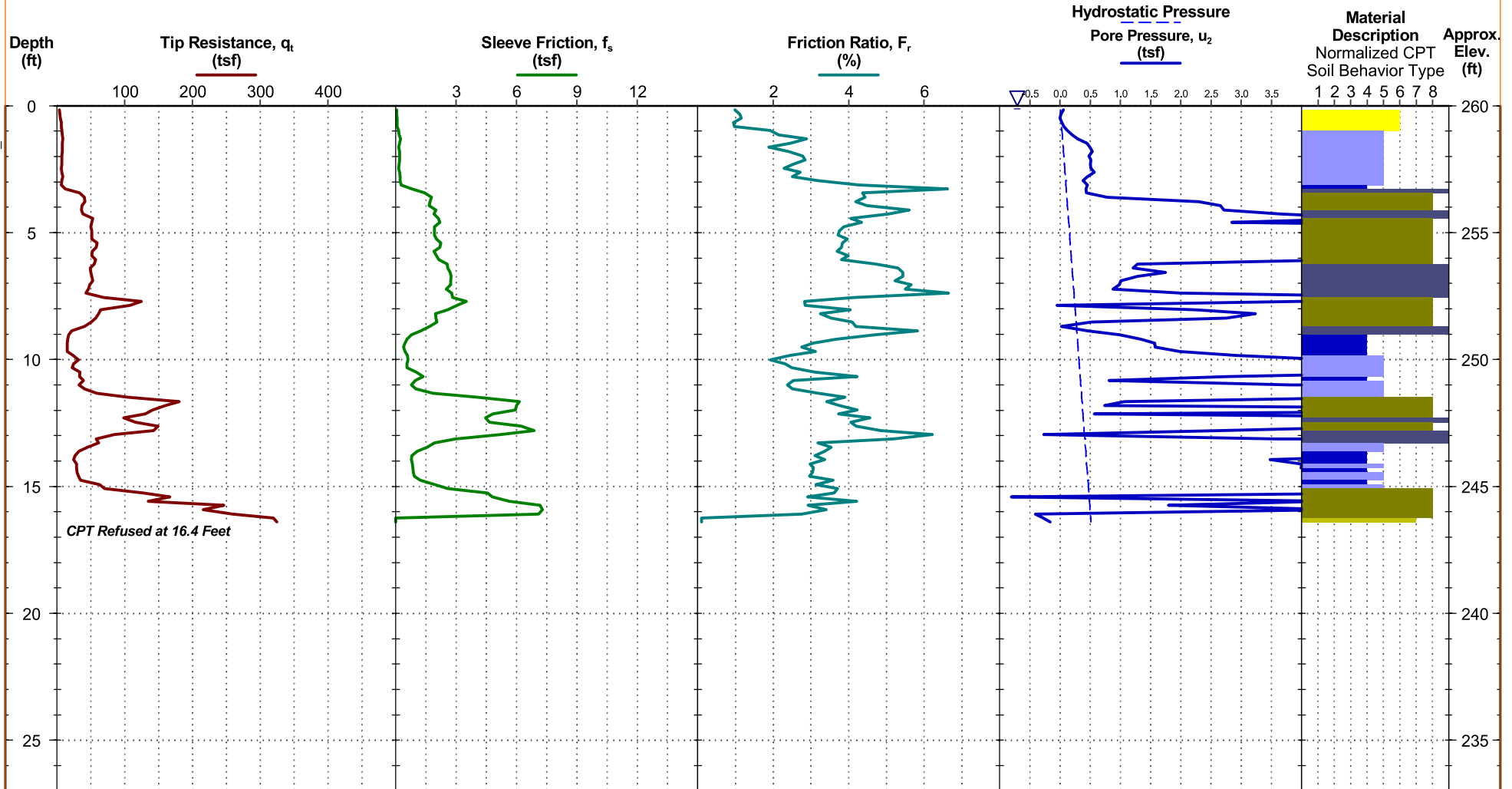
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 260 ft +/-  
Latitude: 46.6233487°  
Longitude: -122.9000447°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1263

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/5/2021

CPT Completed: 1/5/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-A14

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

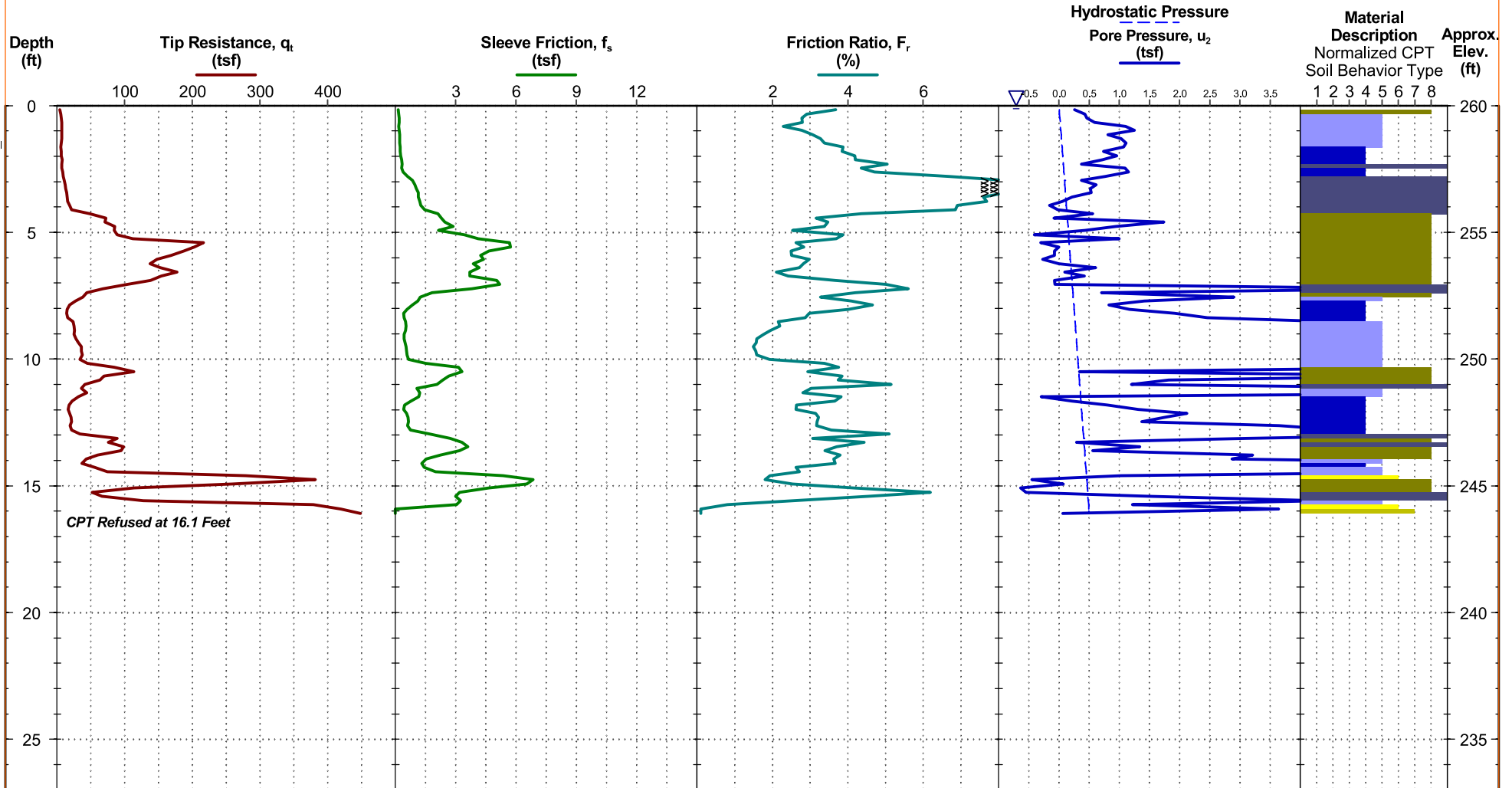
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 260 ft +/-  
Latitude: 46.6230283°  
Longitude: -122.8994909°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATATEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1263

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/5/2021

CPT Completed: 1/5/2021

Rig: Track

Operator: InSitu

Project No.: 81215062



# CPT LOG NO. CPT-A16

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

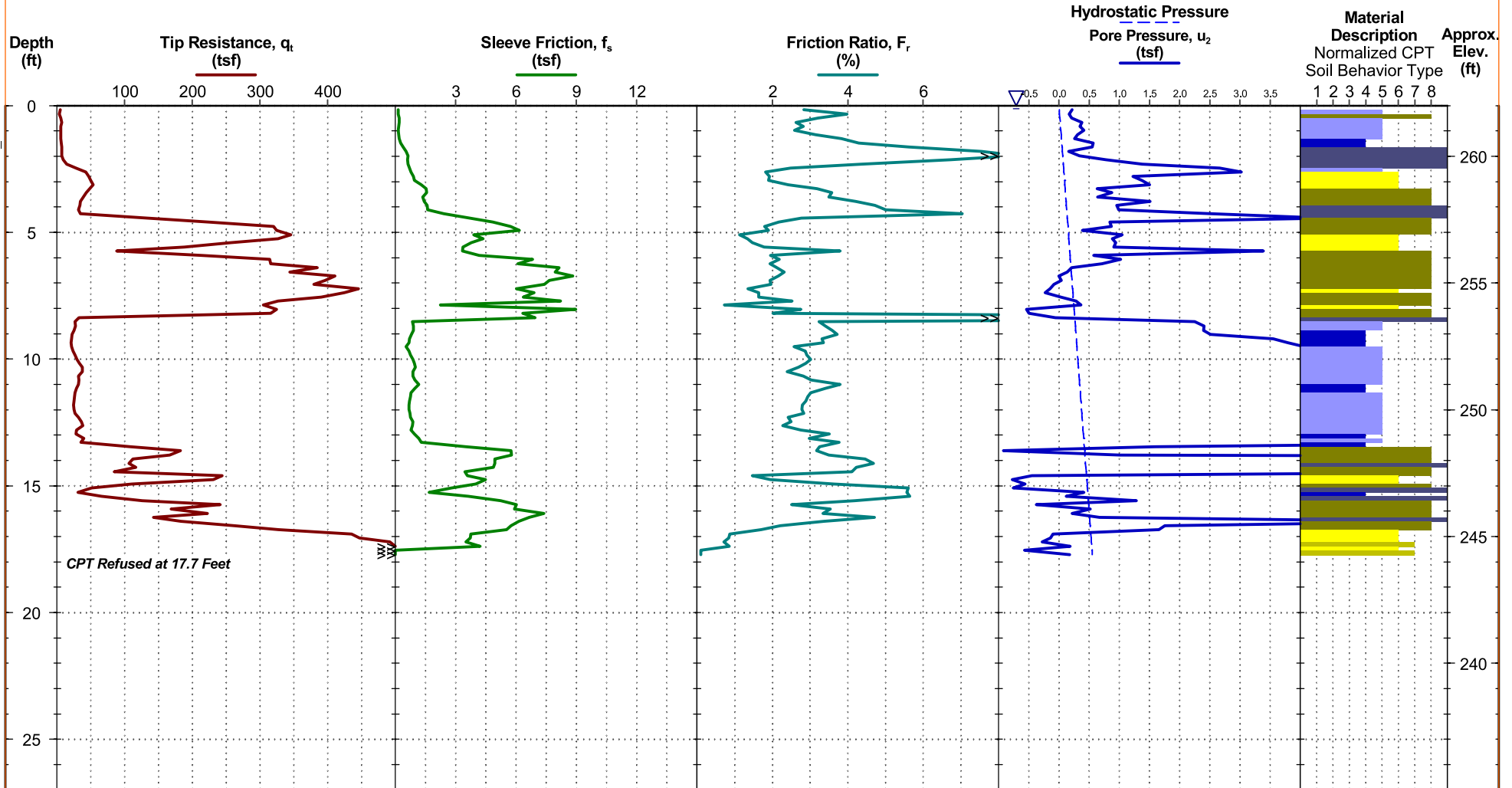
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 262 ft +/-  
Latitude: 46.6224005°  
Longitude: -122.8983966°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1263

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/4/2021

CPT Completed: 1/4/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-B06

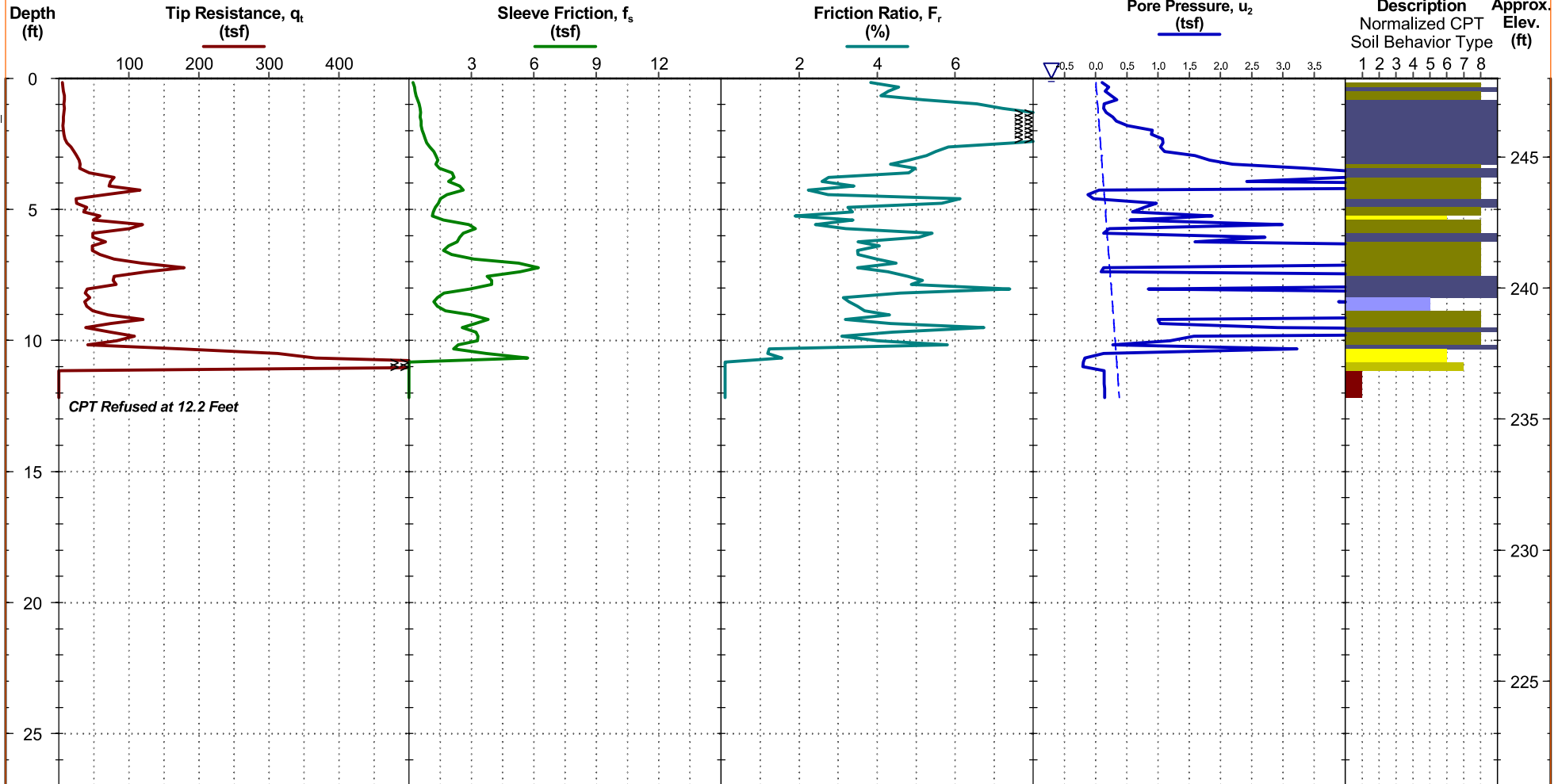
**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 248 ft +/-  
Latitude: 46.625174°  
Longitude: -122.9041238°



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21

**WATER LEVEL OBSERVATION**  
▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))

Probe no. DDG1394



CPT Started: 1/8/2021  
Rig: Track  
Project No.: 81215062

CPT Completed: 1/8/2021  
Operator: InSitu

# CPT LOG NO. CPT-B08

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

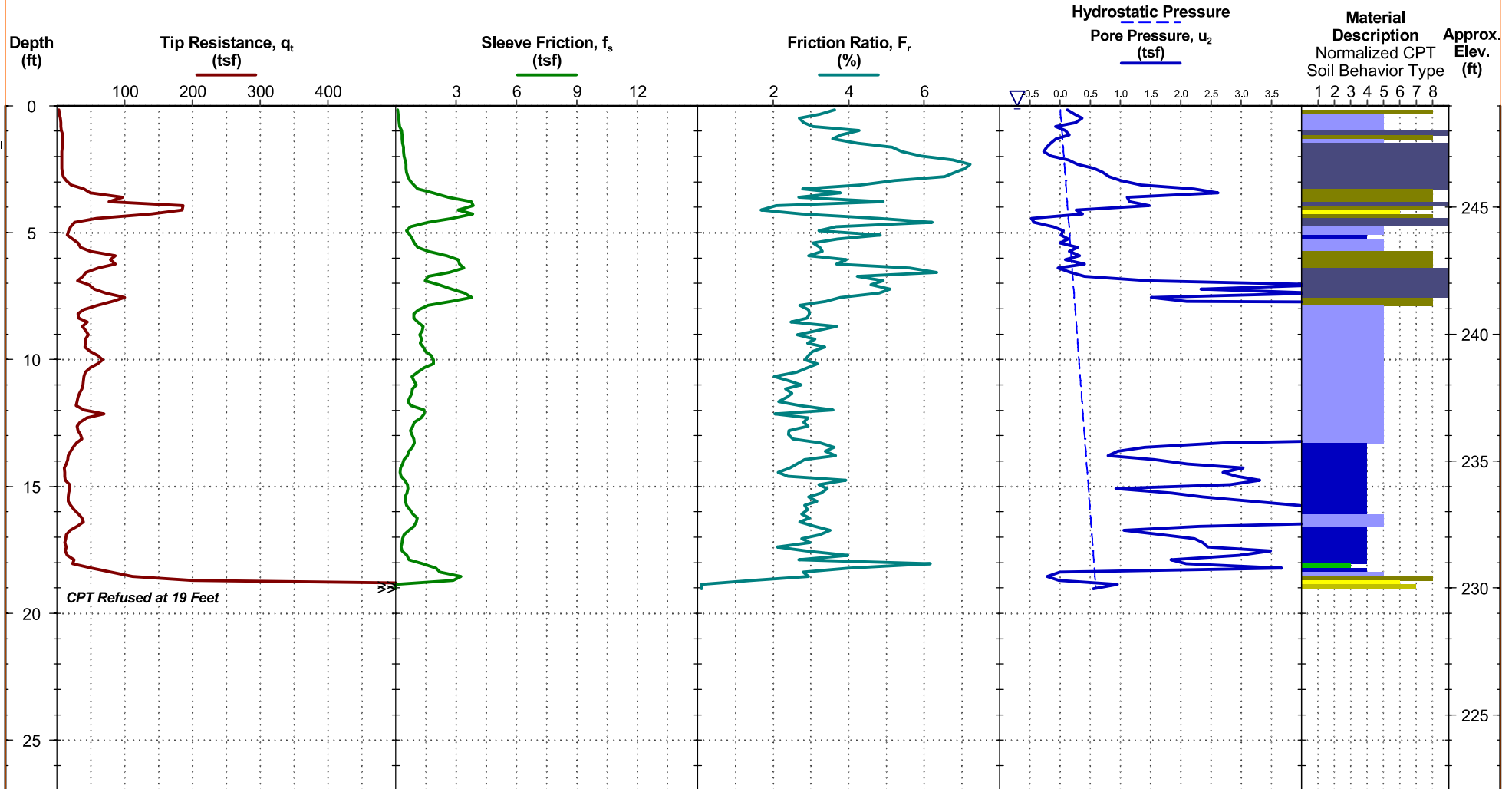
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 249 ft +/-  
Latitude: 46.6245647°  
Longitude: -122.9030629°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**  
▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))

Probe no. DDG1394



CPT Started: 1/8/2021  
Rig: Track  
Project No.: 81215062

CPT Completed: 1/8/2021  
Operator: InSitu

# CPT LOG NO. CPT-B15

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

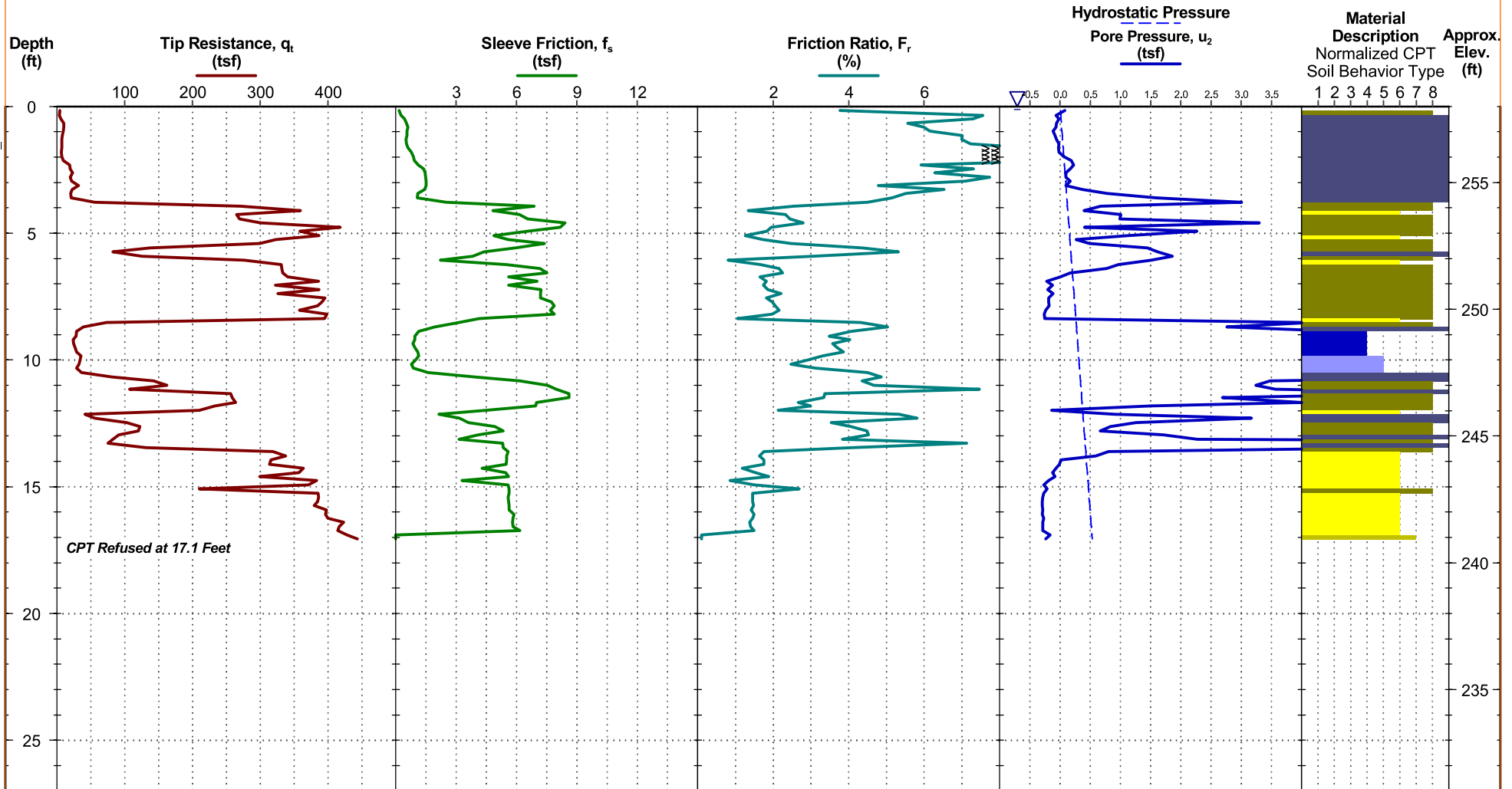
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 258 ft +/-  
Latitude: 46.6224108°  
Longitude: -122.8993127°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**  
▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))

Probe no. DDG1263



CPT Started: 1/4/2021  
Rig: Track  
Project No.: 81215062

CPT Completed: 1/4/2021  
Operator: InSitu

# CPT LOG NO. CPT-C04

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

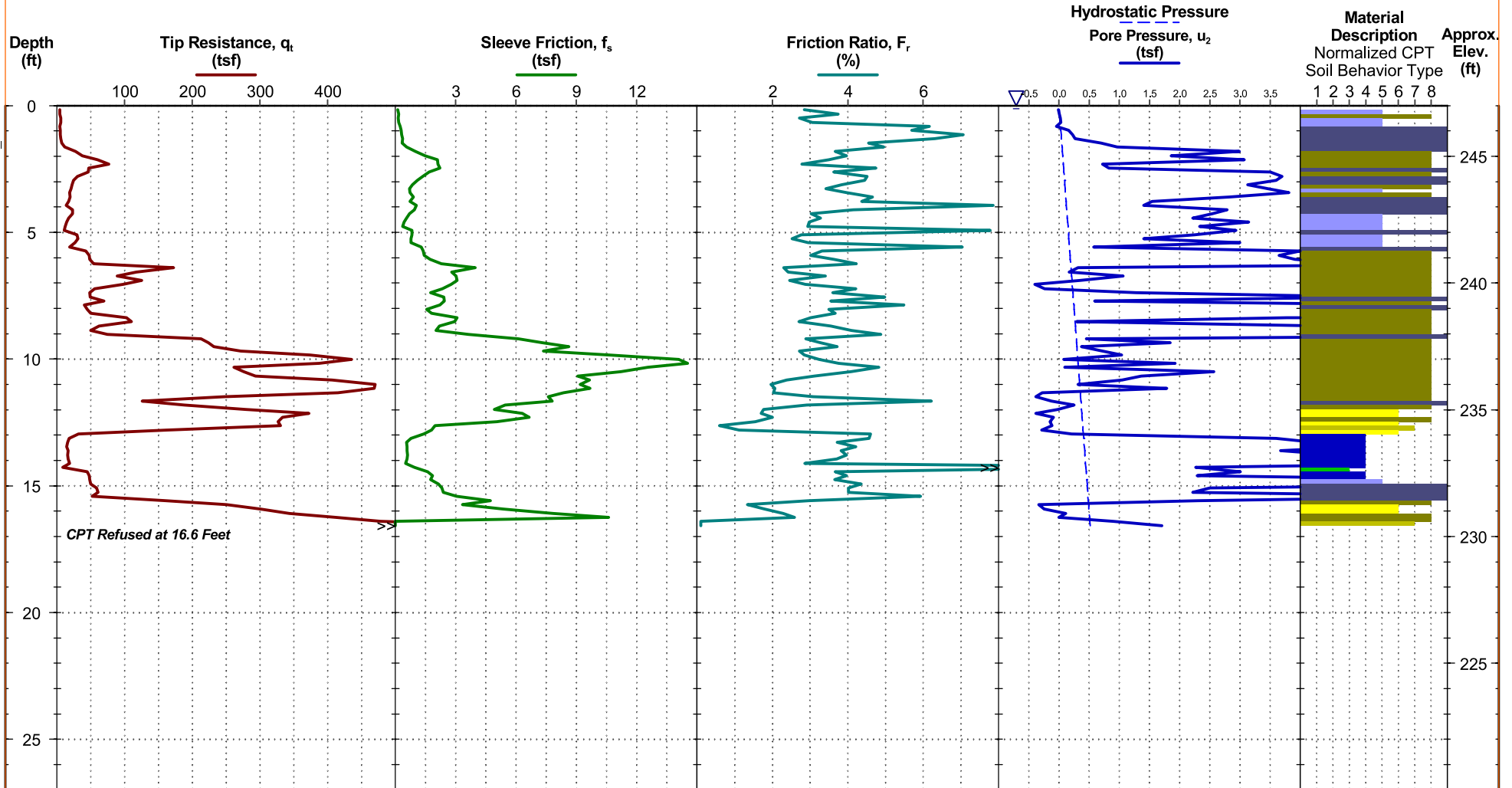
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 247 ft +/-  
Latitude: 46.6254784°  
Longitude: -122.9055557°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/8/2021

CPT Completed: 1/8/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-C05

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

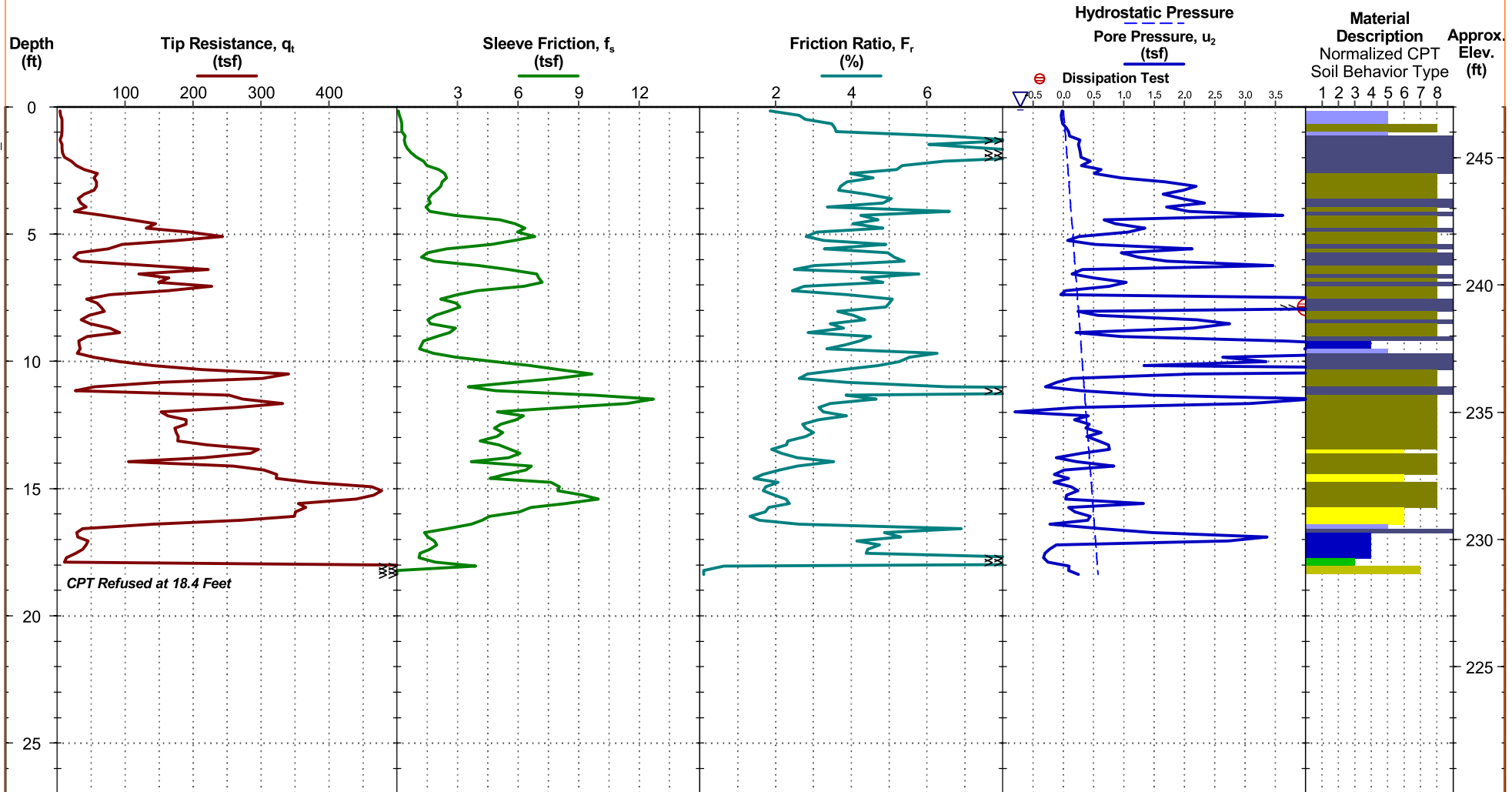
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 247 ft +/-  
Latitude: 46.6251728°  
Longitude: -122.9050238°

Depth (ft)



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/7/2021

CPT Completed: 1/7/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-C08

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

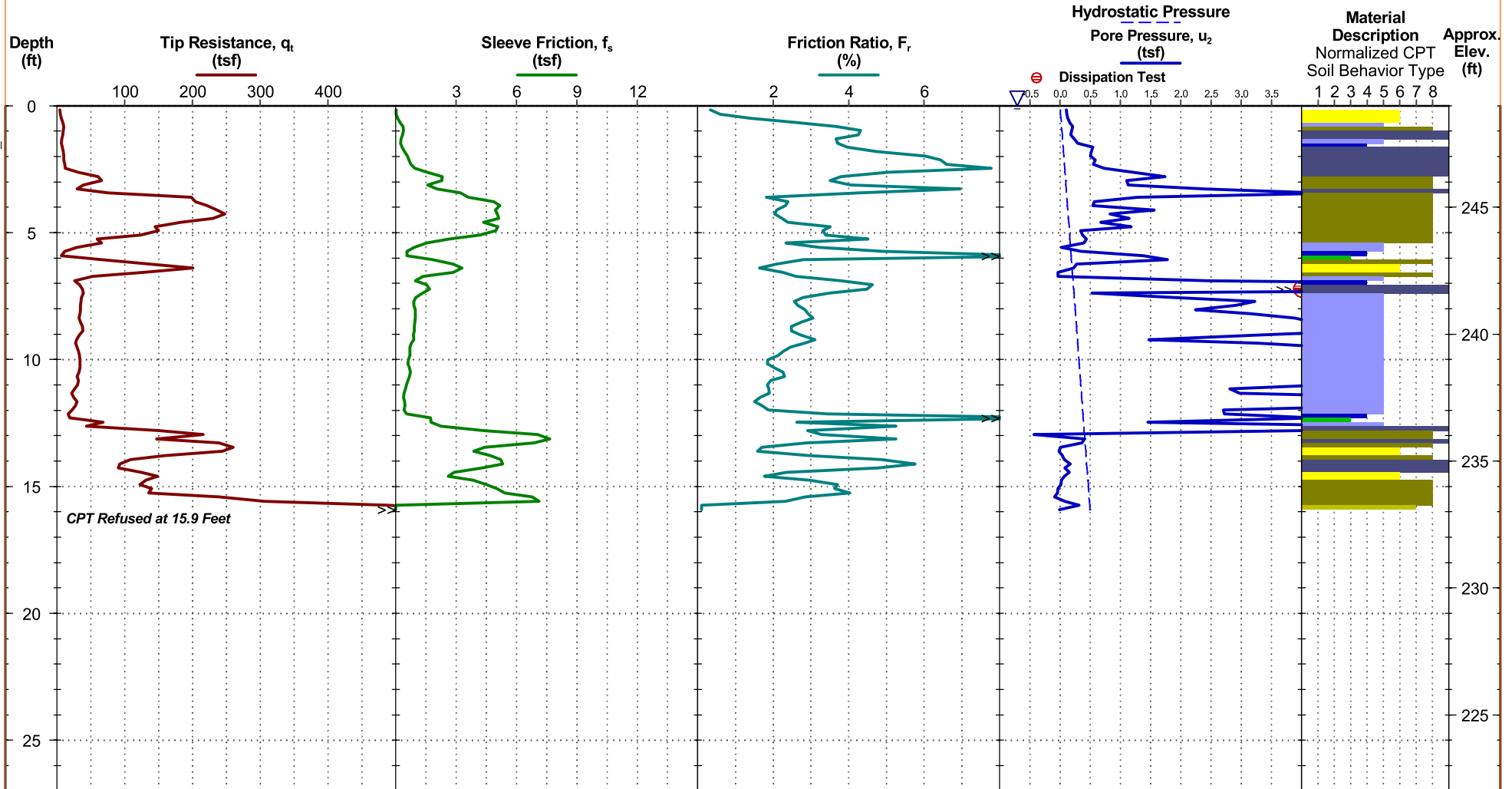
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 249 ft +/-  
Latitude: 46.6242585°  
Longitude: -122.9034323°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.GPJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/8/2021

CPT Completed: 1/8/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-C11

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

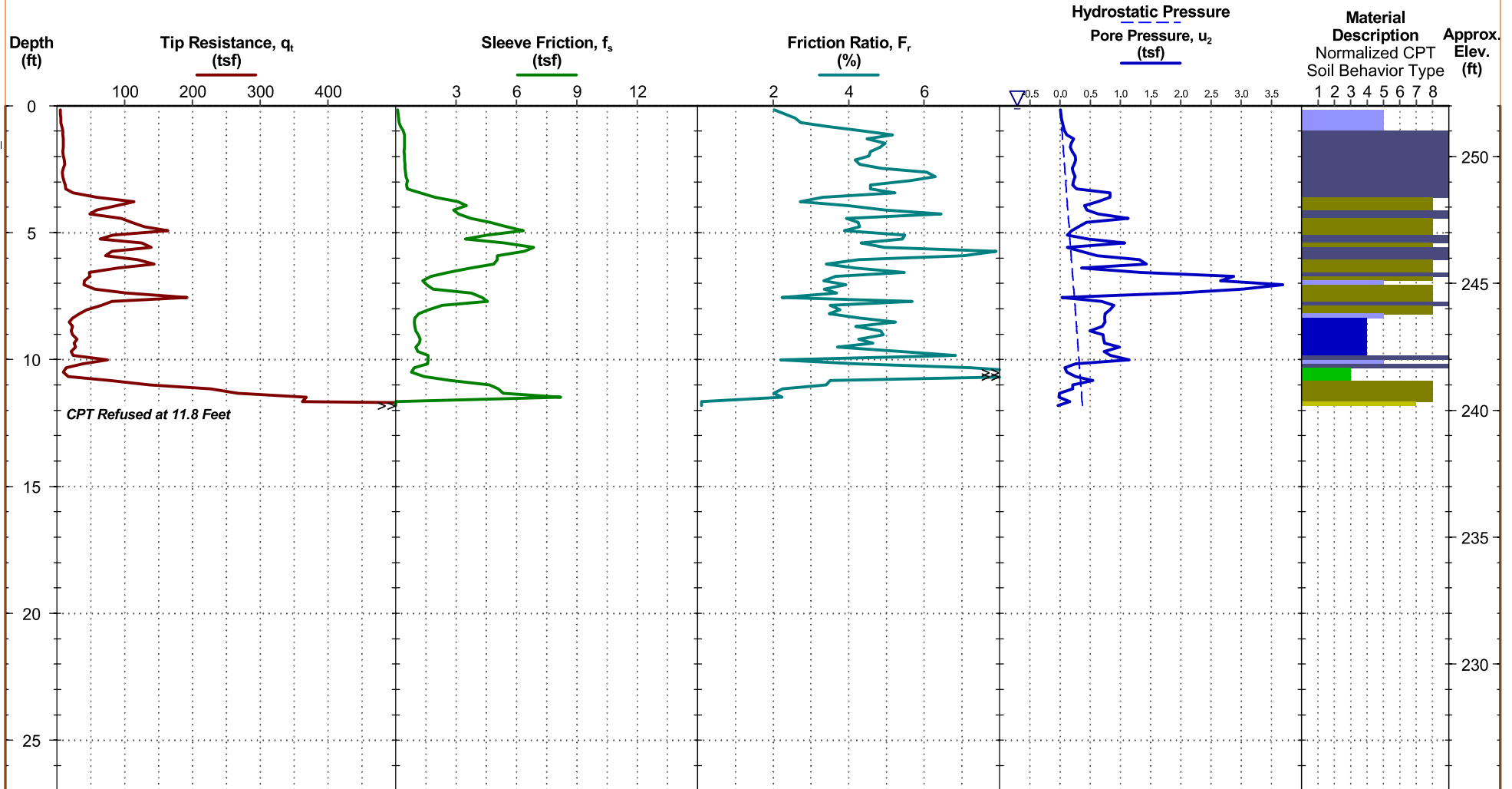
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 252 ft +/-  
Latitude: 46.6233455°  
Longitude: -122.9018433°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

|   |                   |  |                       |                         |
|---|-------------------|--|-----------------------|-------------------------|
| <b>WATER LEVEL OBSERVATION</b>  | Probe no. DDG1394 | <br>21905 64th Ave W, Ste 100<br>Mountlake Terrace, WA | CPT Started: 1/7/2021 | CPT Completed: 1/7/2021 |
| ▽ 0 ft estimated water depth<br>(used in normalizations and correlations;<br>See <a href="#">Supporting Information</a> ) |                   |  | Rig: Track            | Operator: InSitu        |
|   |                   |  | Project No.: 81215062 |                         |



# CPT LOG NO. CPT-C12

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

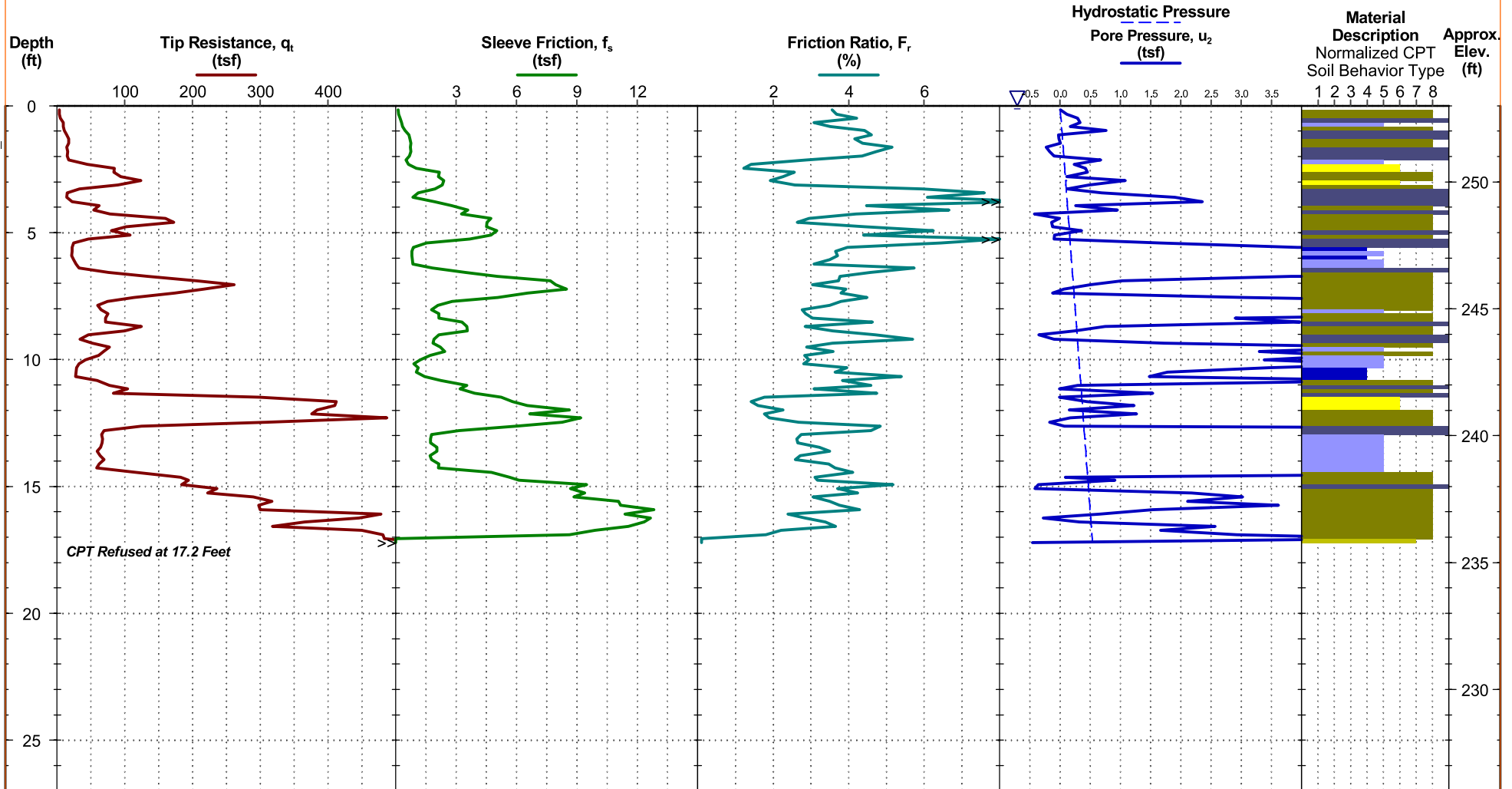
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 253 ft +/-  
Latitude: 46.6230418°  
Longitude: -122.9013125°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/7/2021

CPT Completed: 1/7/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-C13

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

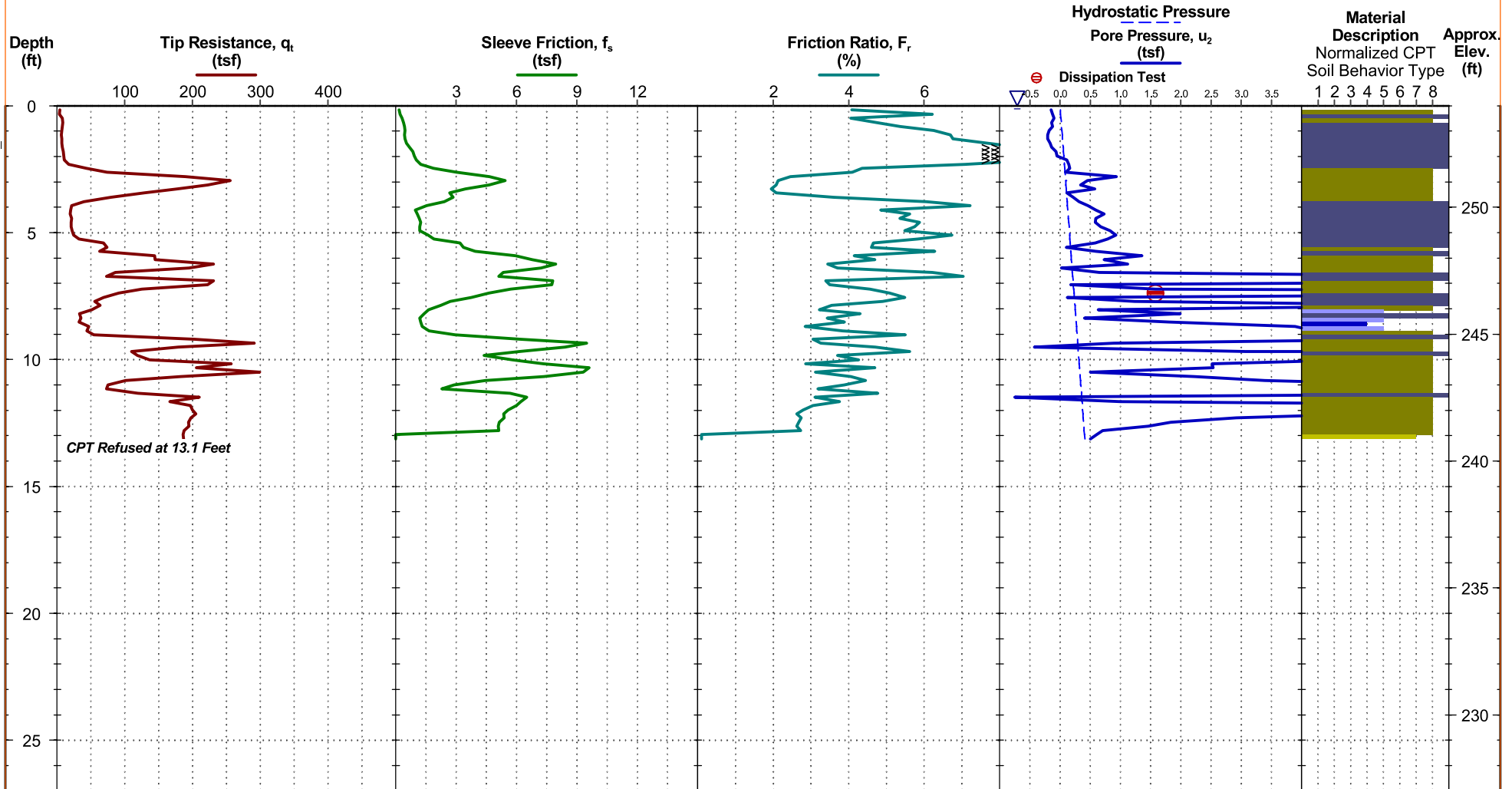
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 254 ft +/-  
Latitude: 46.6227367°  
Longitude: -122.9007816°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

**WATER LEVEL OBSERVATION**

Probe no. DDG1263

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/5/2021

CPT Completed: 1/5/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-C13a

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

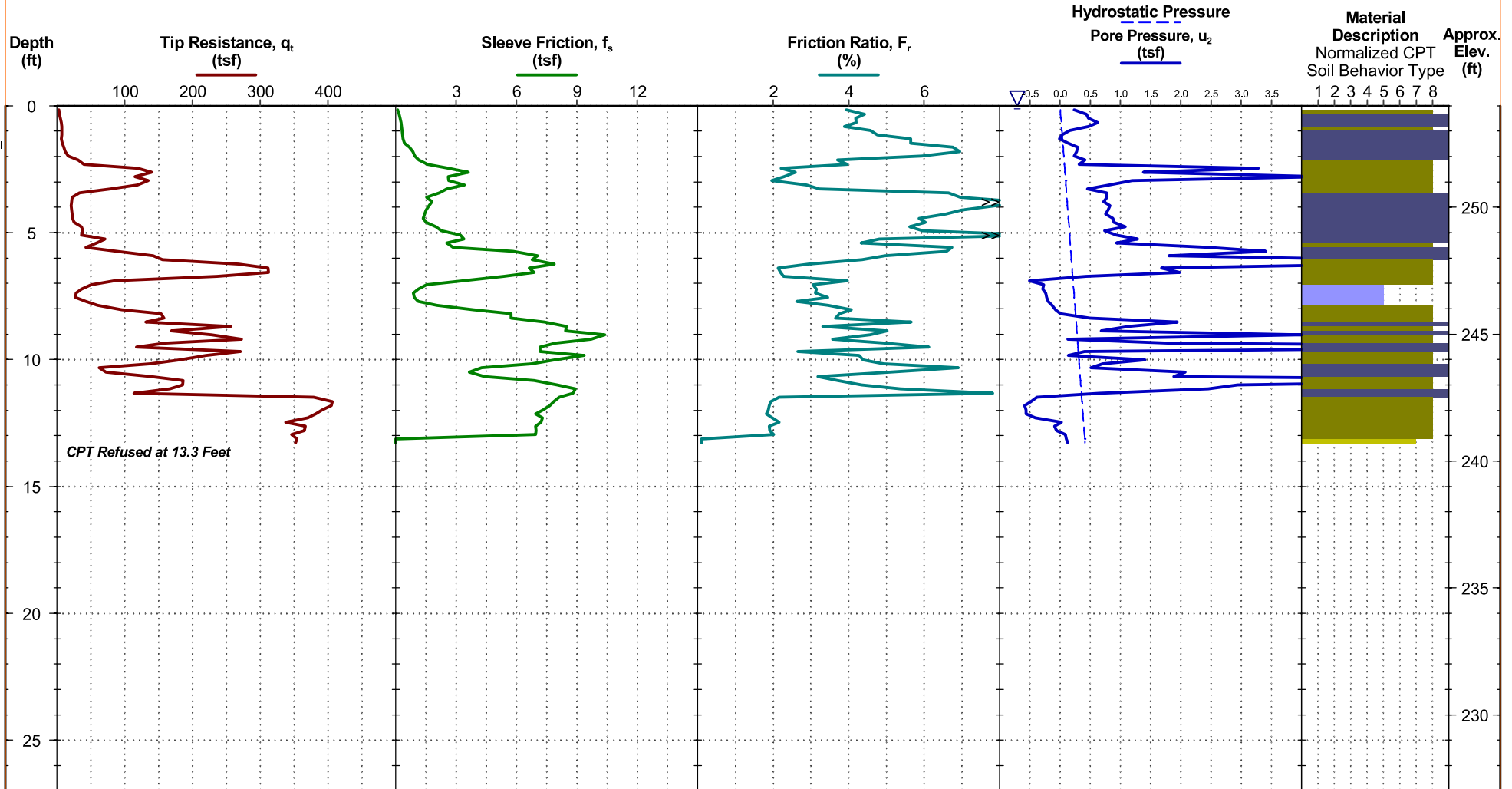
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 254 ft +/-  
Latitude: 46.6227367°  
Longitude: -122.9007816°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/5/2021

CPT Completed: 1/5/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-D05

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

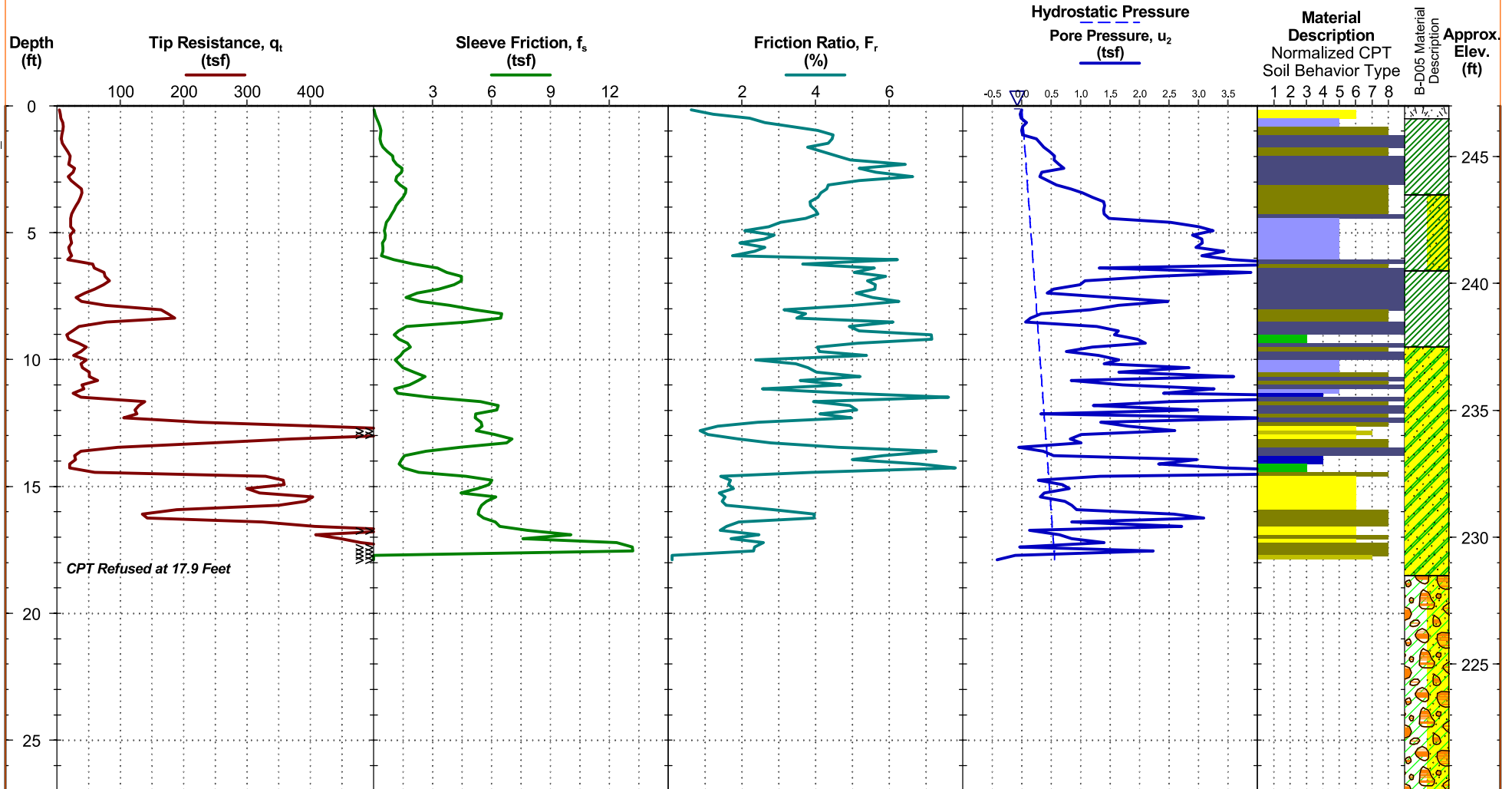
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

Approx. Surface Elev: 247 ft +/- Adjacent Test: B-D05  
Latitude: 46.6248628°  
Longitude: -122.9053908°

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

See B-D05 for the adjacent test's full details.  
Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/7/2021

CPT Completed: 1/7/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-D05

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

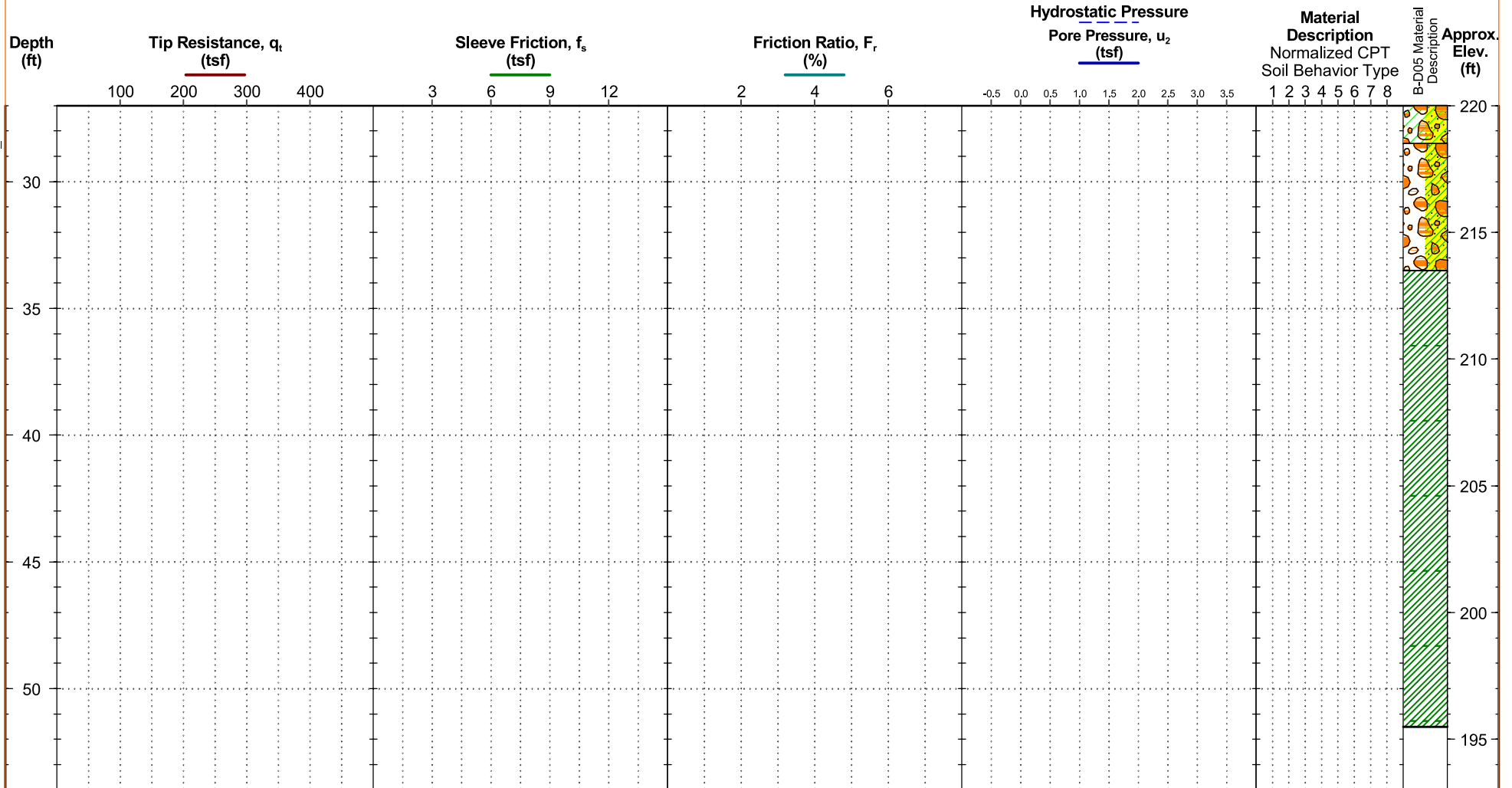
Approx. Surface Elev: 247 ft +/- Adjacent Test: B-D05

Latitude: 46.6248628°

Longitude: -122.9053908°

**SITE:** 2800 Jackson Highway  
Chehalis, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.GPJ TERRACON\_DATATEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

See B-D05 for the adjacent test's full details.  
Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/7/2021

CPT Completed: 1/7/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-D06

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

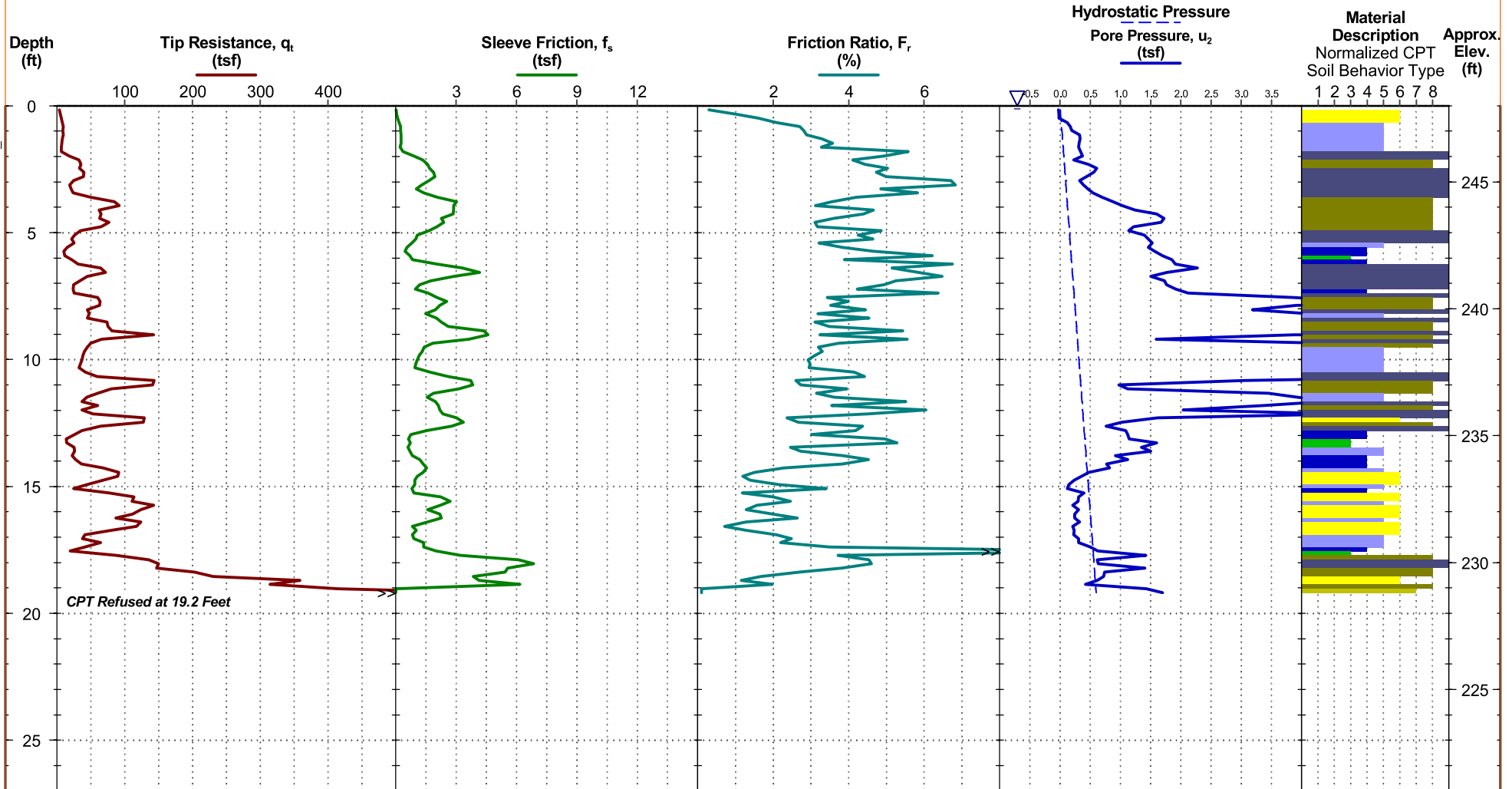
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 248 ft +/-  
Latitude: 46.6245579°  
Longitude: -122.9048602°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/6/2021

CPT Completed: 1/6/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-D07

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

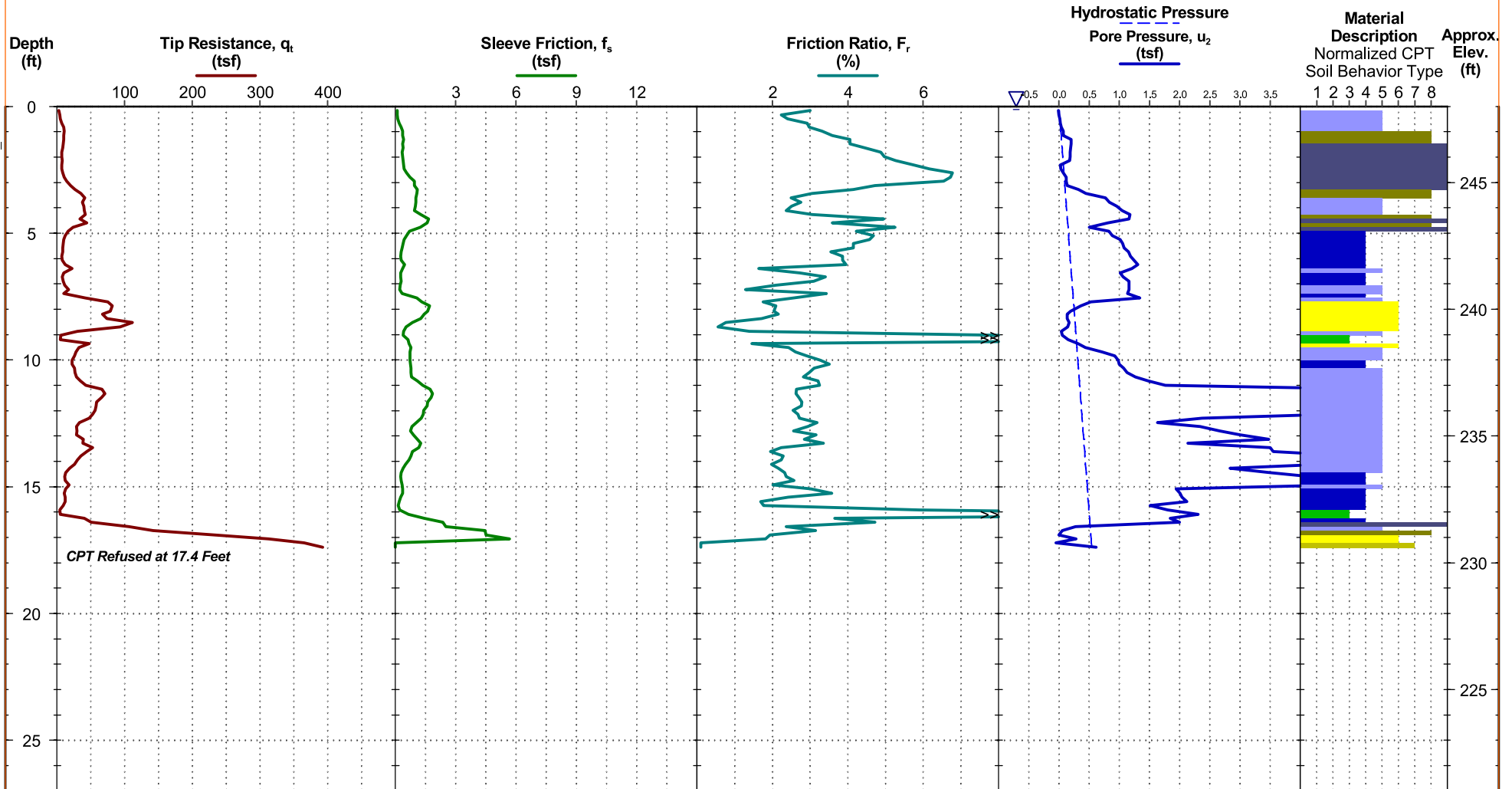
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 248 ft +/-  
Latitude: 46.6242524°  
Longitude: -122.9043301°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/6/2021

CPT Completed: 1/6/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-D09

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

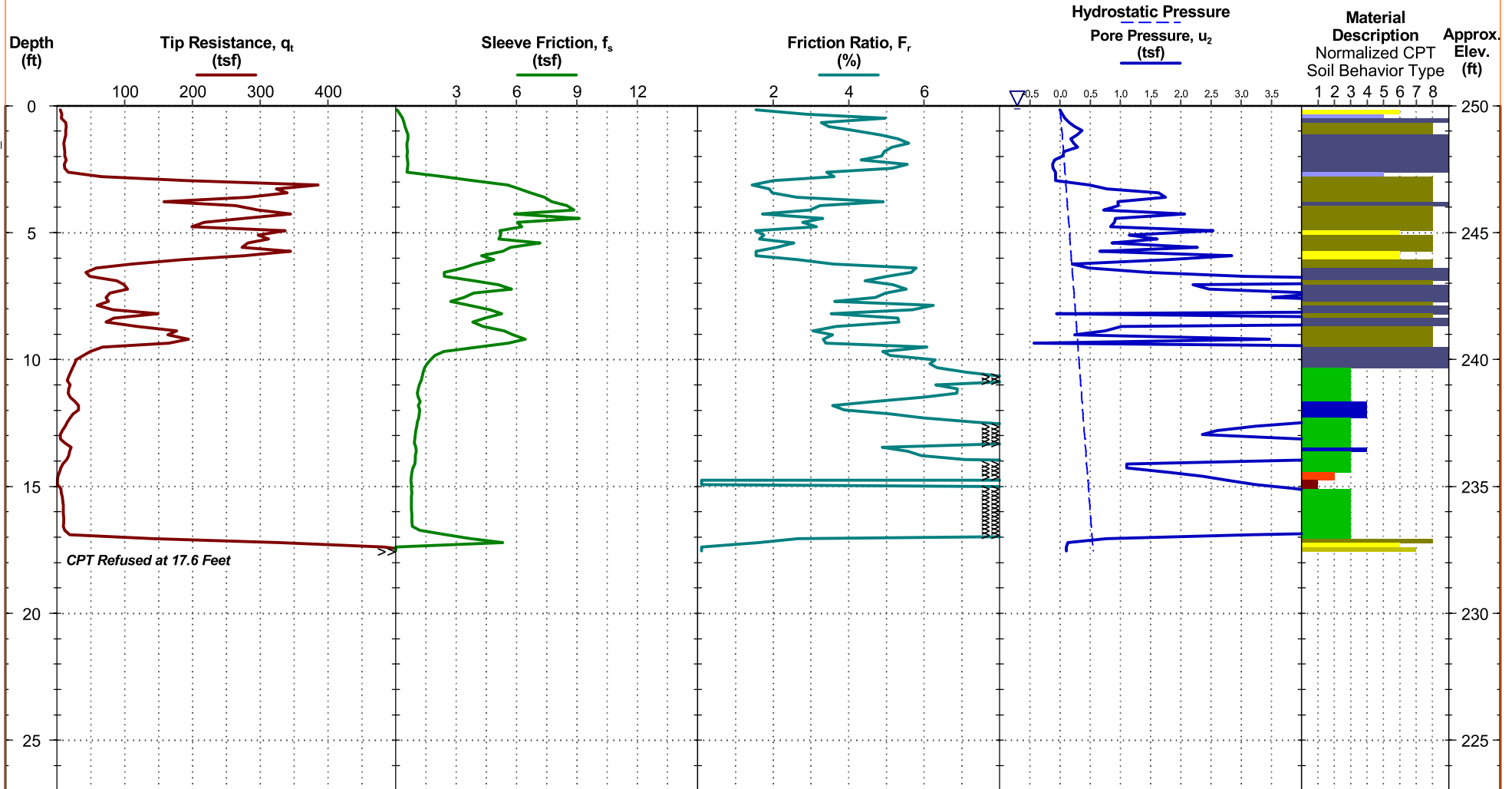
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 250 ft +/-  
Latitude: 46.6236449°  
Longitude: -122.9032719°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/6/2021

CPT Completed: 1/6/2021

Rig: Track

Operator: InSitu

Project No.: 81215062



# CPT LOG NO. CPT-D10

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

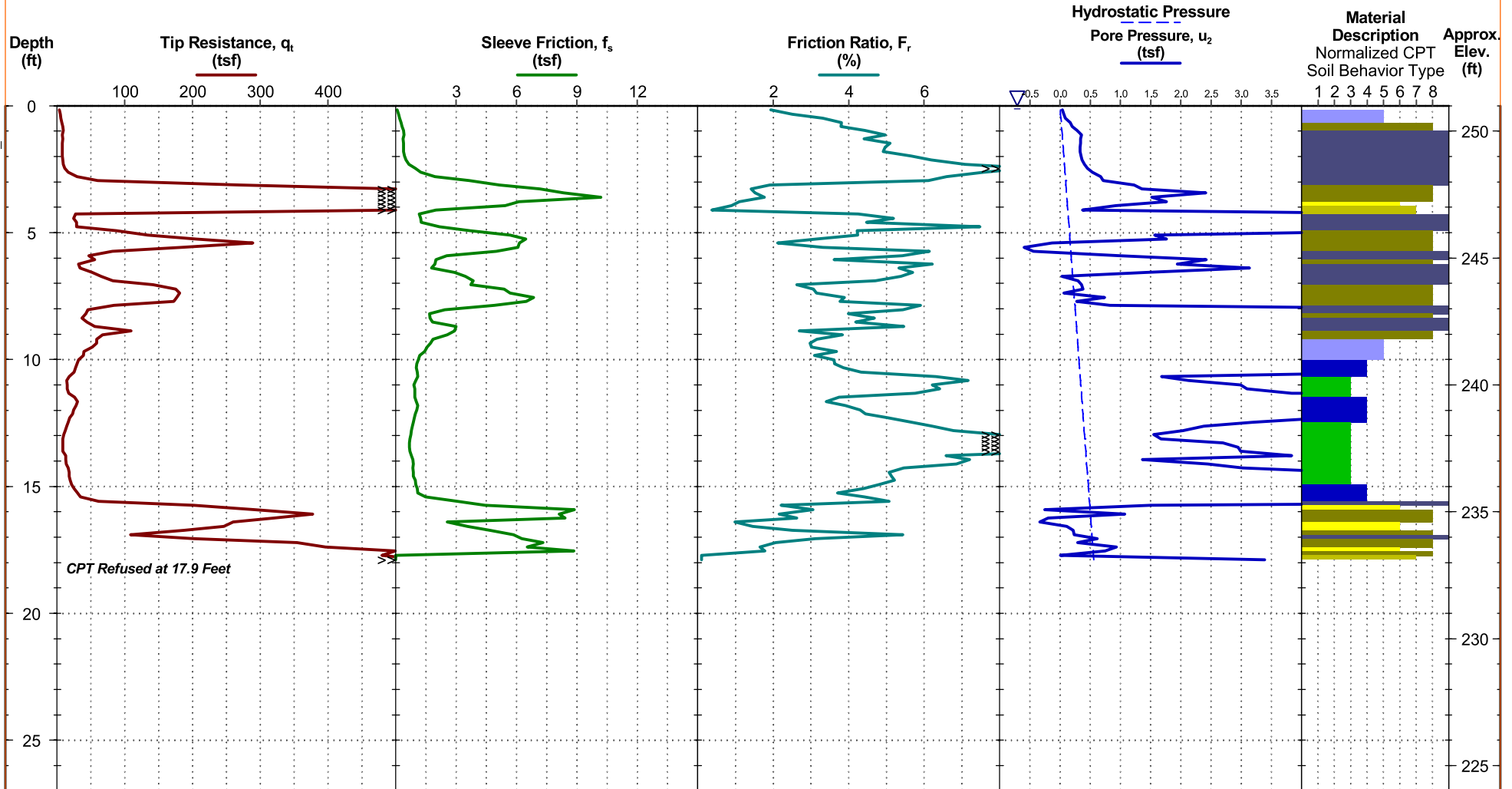
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 251 ft +/-  
Latitude: 46.6233401°  
Longitude: -122.9027408°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/6/2021

CPT Completed: 1/6/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-D13

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

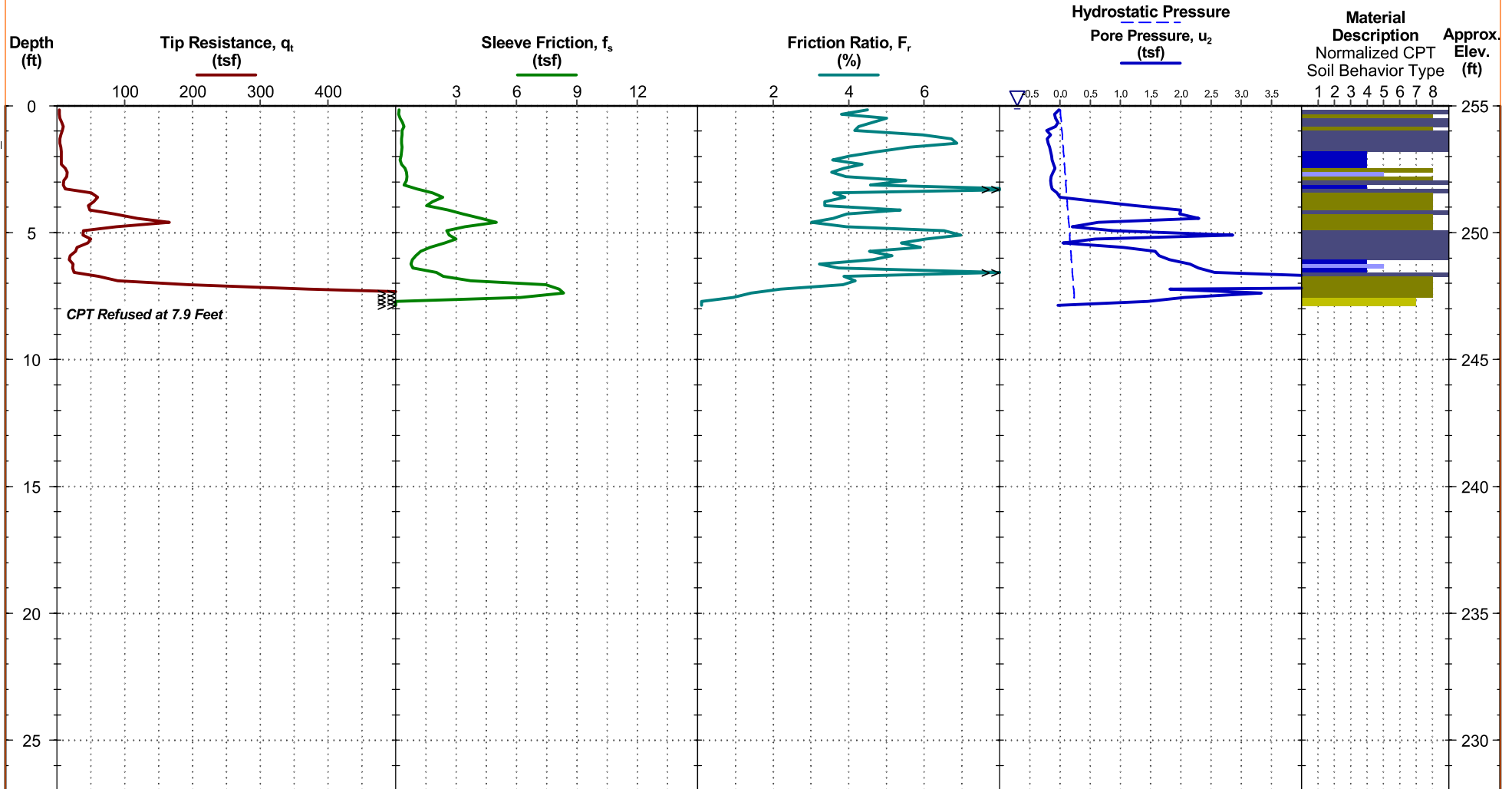
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 255 ft +/-  
Latitude: 46.6224268°  
Longitude: -122.9011486°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**  
▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))

Probe no. DDG1263



CPT Started: 1/4/2021  
Rig: Track  
Project No.: 81215062

CPT Completed: 1/4/2021  
Operator: InSitu

# CPT LOG NO. CPT-D13a

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

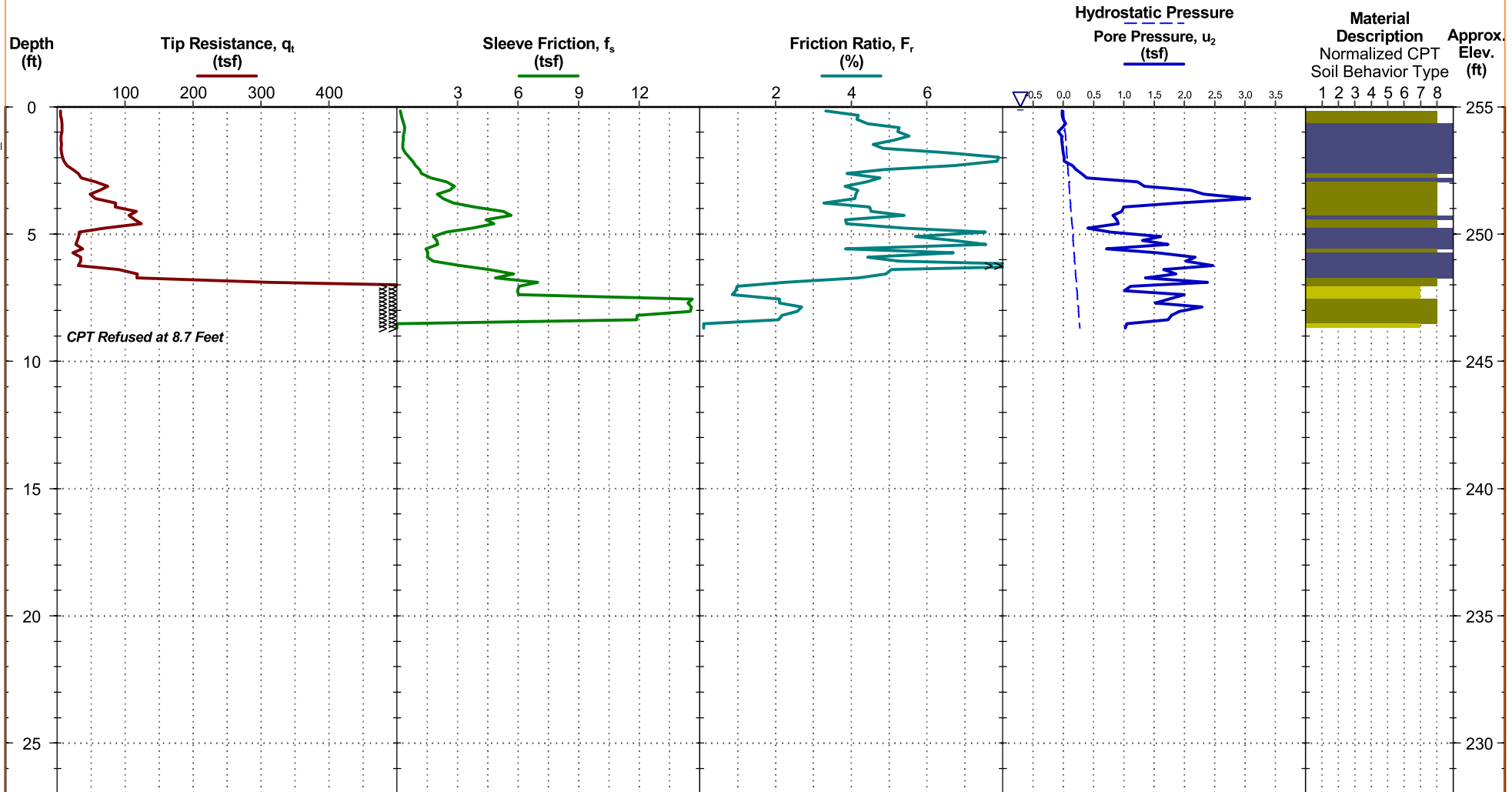
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 255 ft +/-  
Latitude: 46.6224268°  
Longitude: -122.9011486°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1263

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/4/2021

CPT Completed: 1/4/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-E06

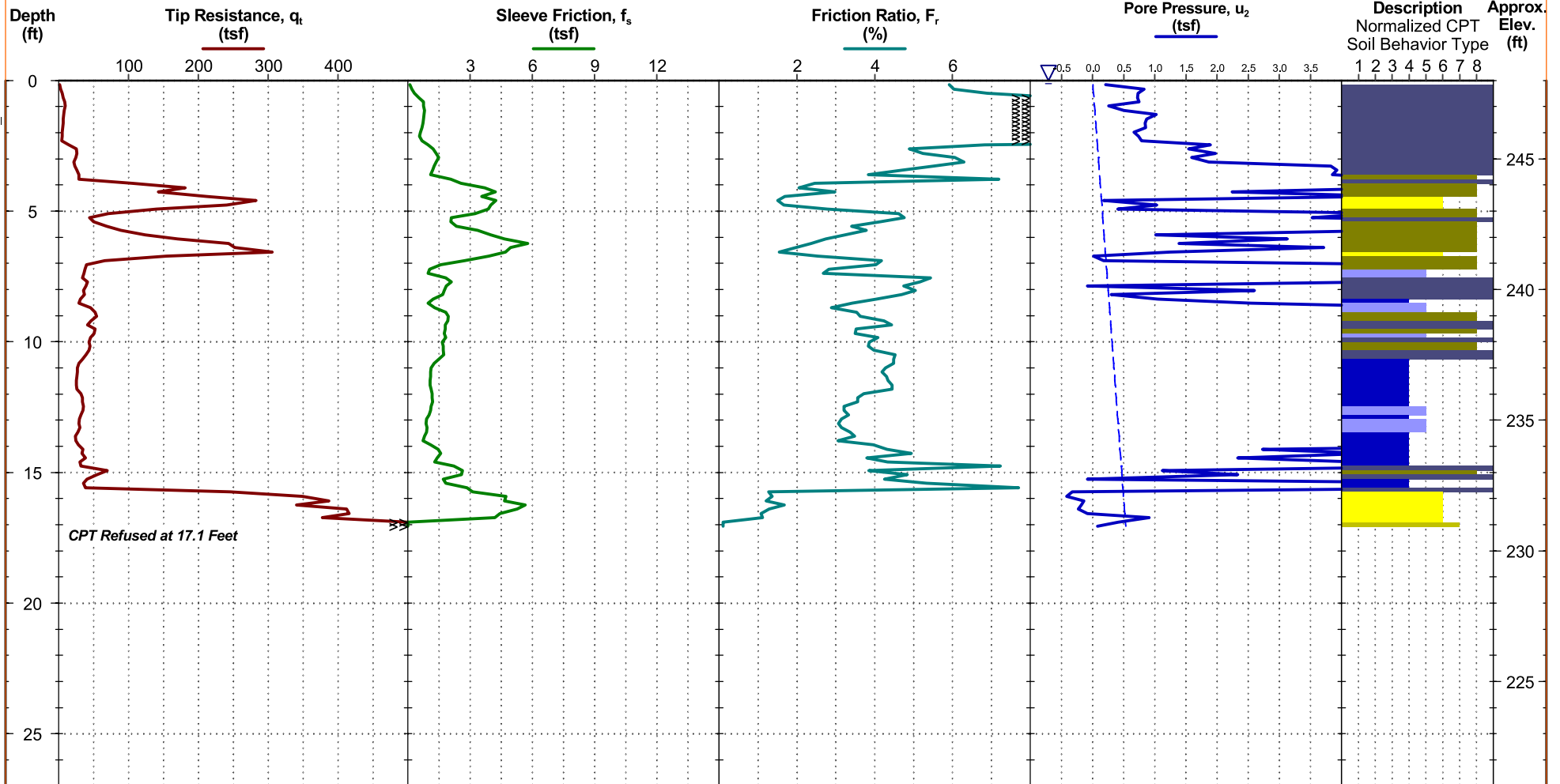
**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 248 ft +/-  
Latitude: 46.624257°  
Longitude: -122.9052389°



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/6/2021

CPT Completed: 1/6/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-E09

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

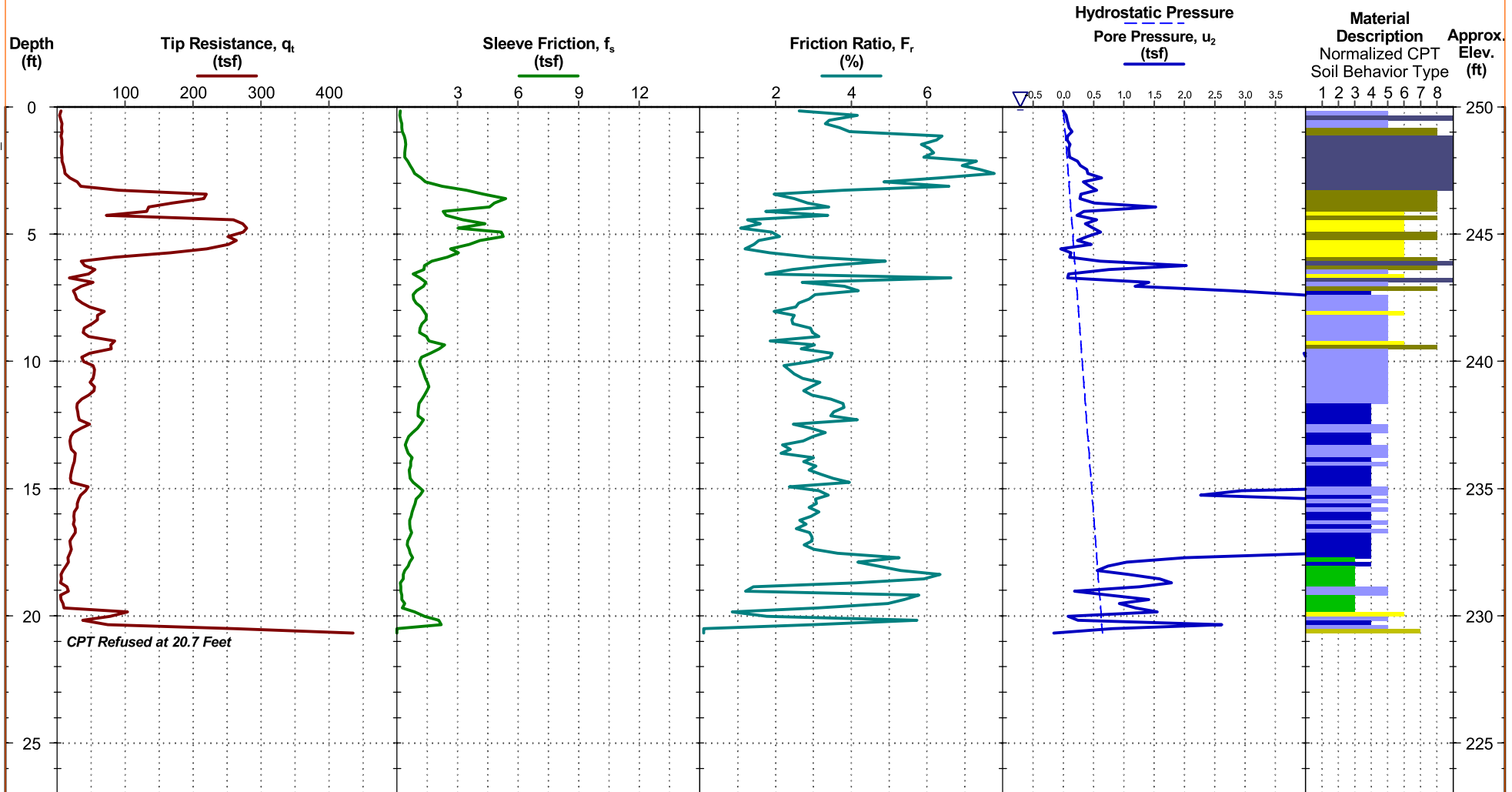
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 250 ft +/-  
Latitude: 46.623344°  
Longitude: -122.9036505°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/6/2021

CPT Completed: 1/6/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-E10

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

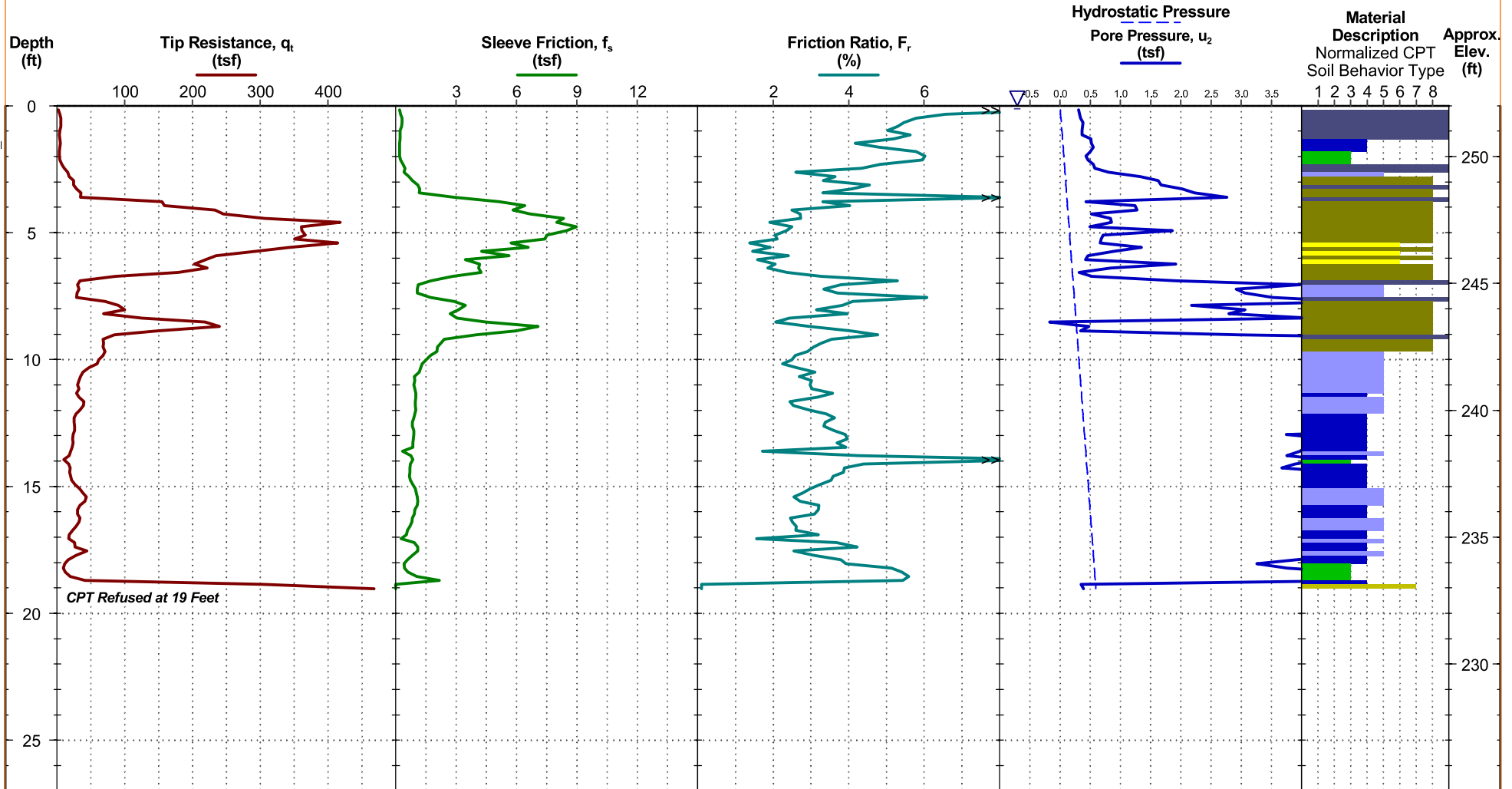
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 252 ft +/-  
Latitude: 46.6230392°  
Longitude: -122.9031195°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/6/2021

CPT Completed: 1/6/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-E12

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

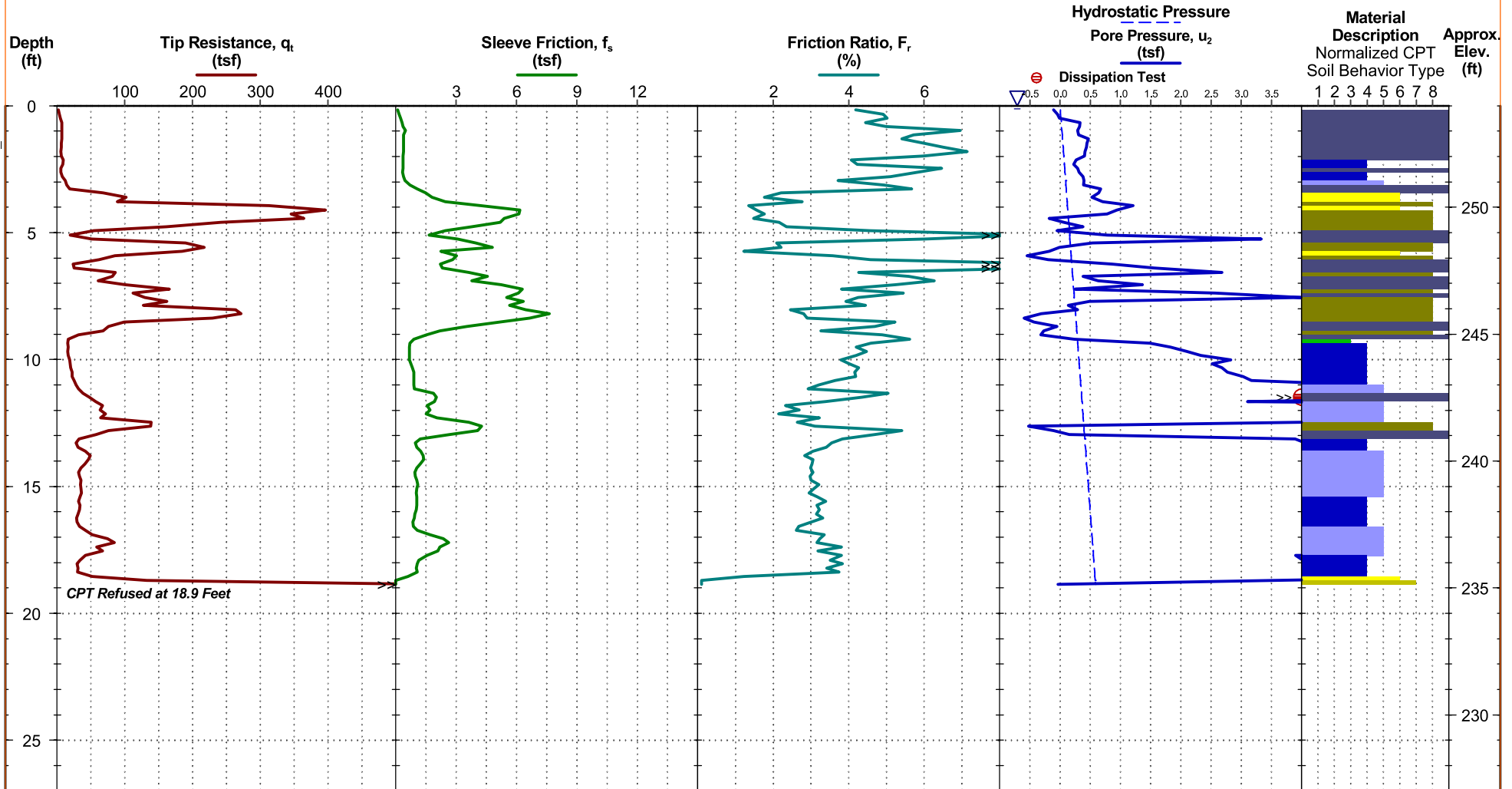
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 254 ft +/-  
Latitude: 46.6224309°  
Longitude: -122.9020582°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PWJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/6/2021

CPT Completed: 1/6/2021

Rig: Track

Operator: InSitu

Project No.: 81215062

# CPT LOG NO. CPT-E15

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

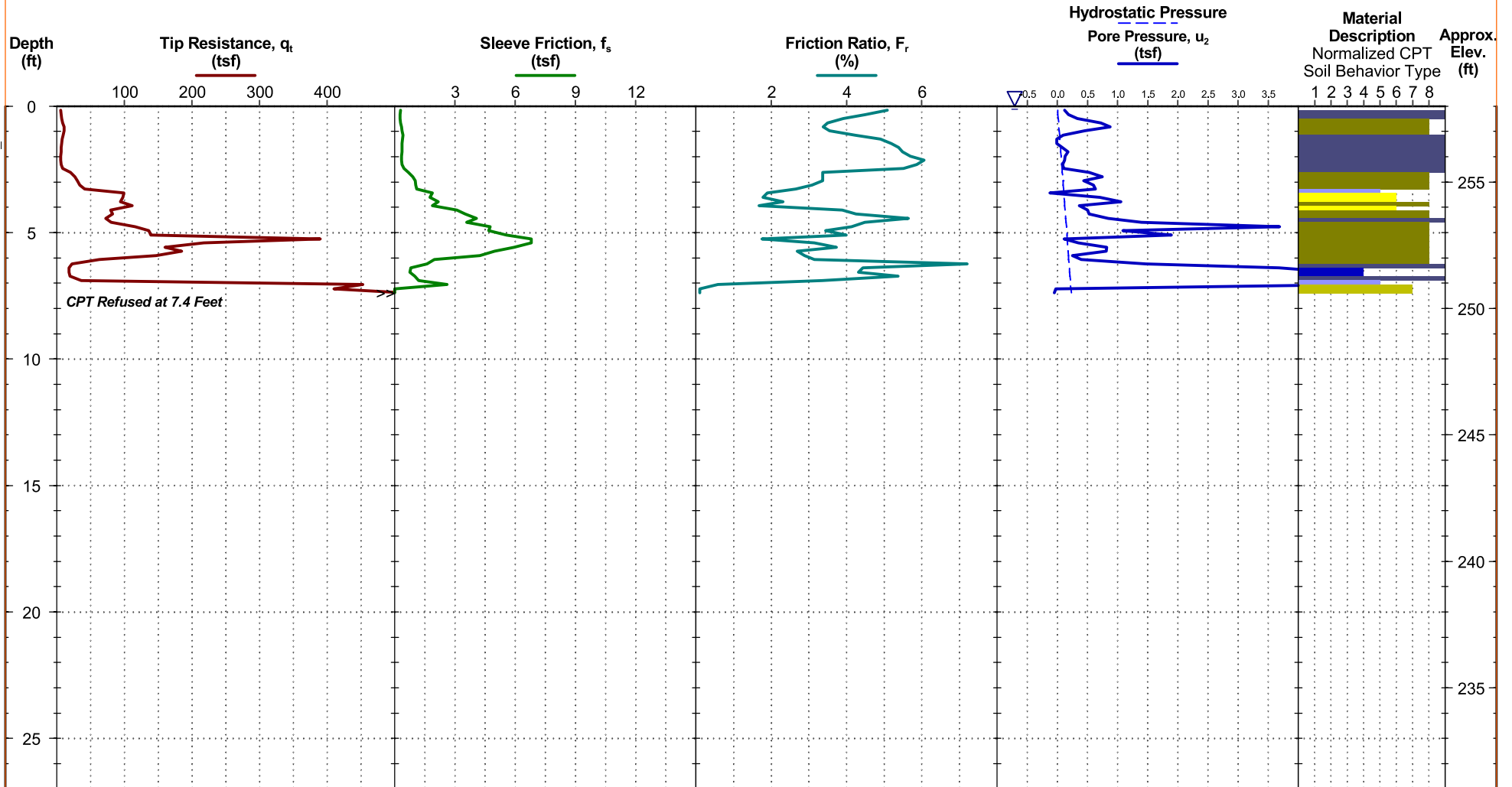
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 258 ft +/-  
Latitude: 46.6214938°  
Longitude: -122.9004278°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**  
▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))

Probe no. DDG1394



CPT Started: 1/6/2021  
Rig: Track  
Project No.: 81215062

CPT Completed: 1/6/2021  
Operator: InSitu



# CPT LOG NO. CPT-E16

**PROJECT:** Proposed Industrial Park - Chehalis  
PWI Site

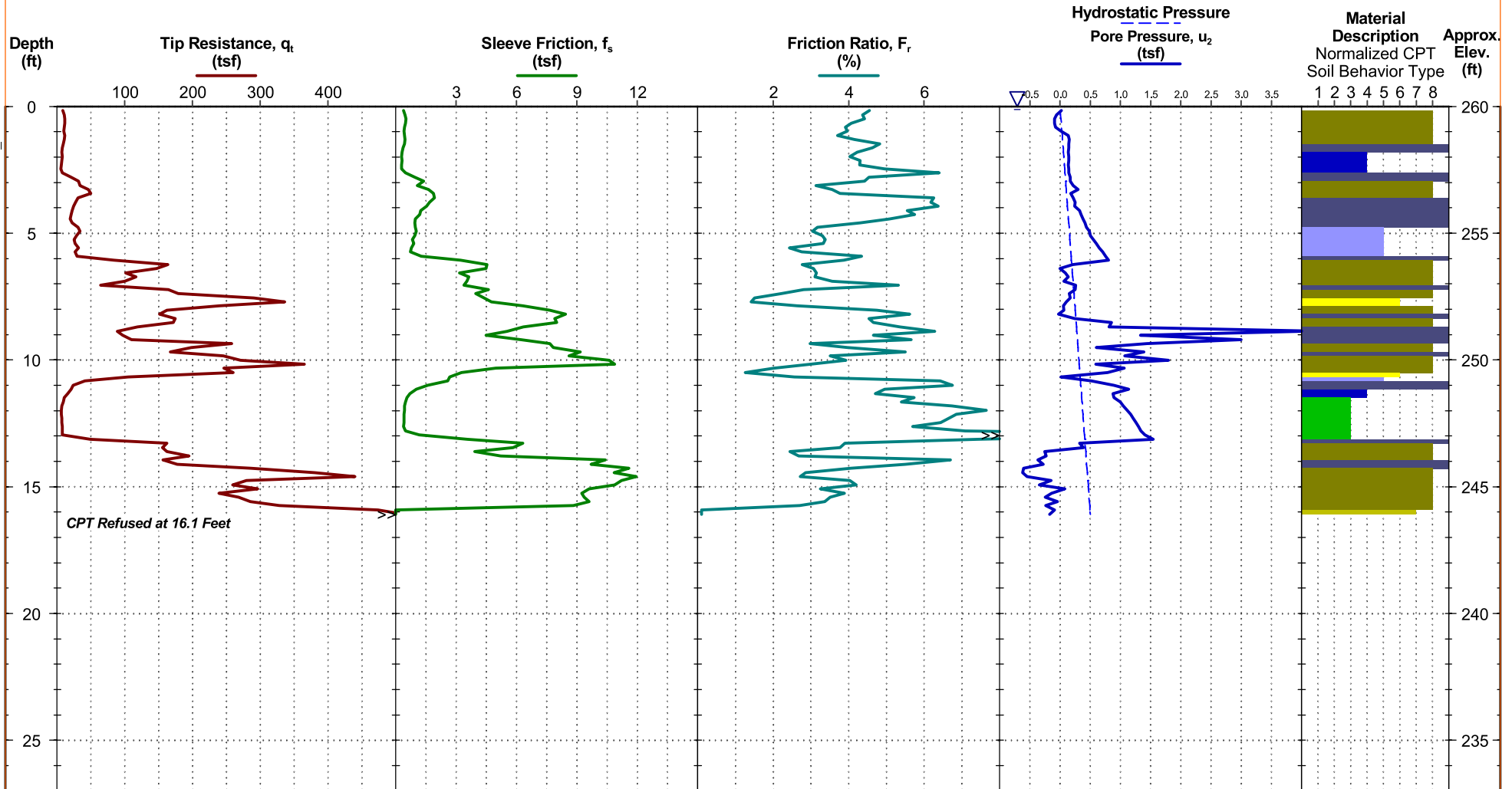
**CLIENT:** Puget Western Inc  
Bothell, WA

**TEST LOCATION:** See [Exploration Plan](#)

**SITE:** 2800 Jackson Highway  
Chehalis, WA

Approx. Surface Elev: 260 ft +/-  
Latitude: 46.6211756°  
Longitude: -122.8998769°

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. CPT REPORT: 81215062 PROPOSED INDUSTRIAL.PUJ TERRACON\_DATA\_TEMPLATE.GDT 8/19/21



See [Exploration and Testing Procedures](#) for a description of field and laboratory procedures used and additional data (If any).  
Elevations were interpolated from a topographic site plan.

Dead weight of rig used as reaction force.  
CPT sensor calibration reports available upon request.

- 1 Sensitive, fine grained
- 2 Organic soils - clay
- 3 Clay - silty clay to clay
- 4 Silt mixtures - clayey silt to silty clay
- 5 Sand mixtures - silty sand to sandy silt
- 6 Sands - clean sand to silty sand
- 7 Gravelly sand to dense sand
- 8 Very stiff sand to clayey sand
- 9 Very stiff fine grained

**WATER LEVEL OBSERVATION**

Probe no. DDG1394

▽ 0 ft estimated water depth  
(used in normalizations and correlations;  
See [Supporting Information](#))



CPT Started: 1/5/2021

CPT Completed: 1/5/2021

Rig: Track

Operator: InSitu

Project No.: 81215062



February 16, 2021  
HWA Project No. 2012-045-23 Task 21

**Terracon**

21905 64<sup>th</sup> Avenue West, Suite 100  
Mountlake Terrace, Washington 98043

Attention: Mr. Pete Palmerson, P.E.

Subject: **Materials Laboratory Report**  
**Centralia Costco**  
**Client Project No. 81205225**

Dear Mr. Palmerson;

In accordance with your request, HWA GeoSciences Inc. (HWA) performed laboratory testing for the above referenced project. Herein we present the results of our laboratory analyses, which are summarized on the attached reports. The laboratory testing program was performed in general accordance with your instructions and appropriate ASTM Standards as outlined below.

**SAMPLE DESCRIPTION:** The subject samples were delivered to our laboratory on January 11 by Terracon personnel. The samples were delivered in 2.8-inch diameter Shelby tubes and were designated with the exploration number and depth. Each sample was extruded, photographed, and classified for engineering purposes using visual-manual methods. The descriptions may be found on the attached Figures. Photographic Shelby tube logs appear on Figures 8 through 11.

**LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS (ATTERBERG LIMITS):** Samples were tested using method ASTM D 4318, multi-point method. The results are reported on the attached Liquid Limit, Plastic Limit, and Plasticity Index report, Figure 2.

**MOISTURE CONTENT, ASH, AND ORGANIC MATTER:** Selected samples were tested in general accordance with method ASTM D 2974, using moisture content method 'A' (oven dried at 105° C) and ash content method 'C' (burned at 440° C). The test results are summarized in the attached Summary of Material Properties, Figure 1.

**ONE DIMENSIONAL CONSOLIDATION PROPERTIES OF SOIL:** The consolidation properties of selected soil samples were measured in general accordance with ASTM D 2435. Saturation was maintained by inundation of the sample throughout the test. The samples were subjected to increasing increments of total stress, the duration of which was selected to exceed the time required for completion of primary consolidation as defined in the Standard, Method B. Loads on sample B-B02A were maintained for a period of 24-hours to collect sufficient data for use in the estimation of secondary consolidation. Unloading of the samples was carried out incrementally. The test results are presented on the attached Consolidation Test Report, Figures 3 through 6. Secondary compression data is presented on Figures 7a through 7i.



**CLOSURE:** Experience has shown that test values on soil and other natural materials vary with each representative sample. As such, HWA has no knowledge as to the extent and quantity of material the tested samples may represent. HWA also makes no warranty as to how representative either the samples tested or the test results obtained are to actual field conditions. It is a well-established fact that sampling methods present varying degrees of disturbance that affect sample representativeness.

No copy should be made of this report except in its entirety.

We appreciate the opportunity to provide laboratory testing services on this project. Should you have any questions or comments, or if we may be of further service, please call.

HWA GEOSCIENCES INC.

Daniel Walton  
Materials Laboratory Supervisor

Steven E. Greene, L.G., L.E.G.  
Principal Engineering Geologist  
Vice President

Attachments:

- |              |   |
|--------------|---|
| Figure 1     | Summary of Material Properties                            |
| Figure 2     | Liquid Limit, Plastic Limit and Plasticity Index of Soils |
| Figures 3-7i | Consolidation Test Report                                 |
| Figures 8-11 | Shelby Tube Extrusion Log                                 |

| EXPLORATION DESIGNATION | TOP DEPTH (feet) | BOTTOM DEPTH (feet) | MOISTURE CONTENT (%) | ORGANIC CONTENT (%) | SPECIFIC GRAVITY | ATTERBERG LIMITS (%) |    |    | % GRAVEL | % SAND | % FINES | ASTM SOIL CLASSIFICATION | SAMPLE DESCRIPTION               |
|-------------------------|------------------|---------------------|----------------------|---------------------|------------------|----------------------|----|----|----------|--------|---------|--------------------------|----------------------------------|
|                         |                  |                     |                      |                     |                  | LL                   | PL | PI |          |        |         |                          |                                  |
| B-B02A,                 | 15.0             | 17.3                | 106.9                | 15.0                |                  | 149                  | 76 | 73 |          |        |         | OH                       | Dark grayish brown, organic SILT |
| B-E13,                  | 2.0              | 4.2                 | 35.7                 |                     |                  | 75                   | 32 | 43 |          |        |         | CH                       | Light olive brown, fat CLAY      |
| B-P03,                  | 33.0             | 34.4                | 50.5                 |                     |                  | 110                  | 52 | 58 |          |        |         | MH                       | Gray, elastic SILT               |
| B-P06,                  | 32.0             | 34.2                | 25.5                 |                     |                  | 45                   | 36 | 9  |          |        |         | ML                       | Dark gray, sandy SILT            |

Notes: 1. This table summarizes information presented elsewhere in the report and should be used in conjunction with the report test, other graphs and tables, and the exploration logs.  
2. The soil classifications in this table are based on ASTM D2487 and D2488 as applicable.

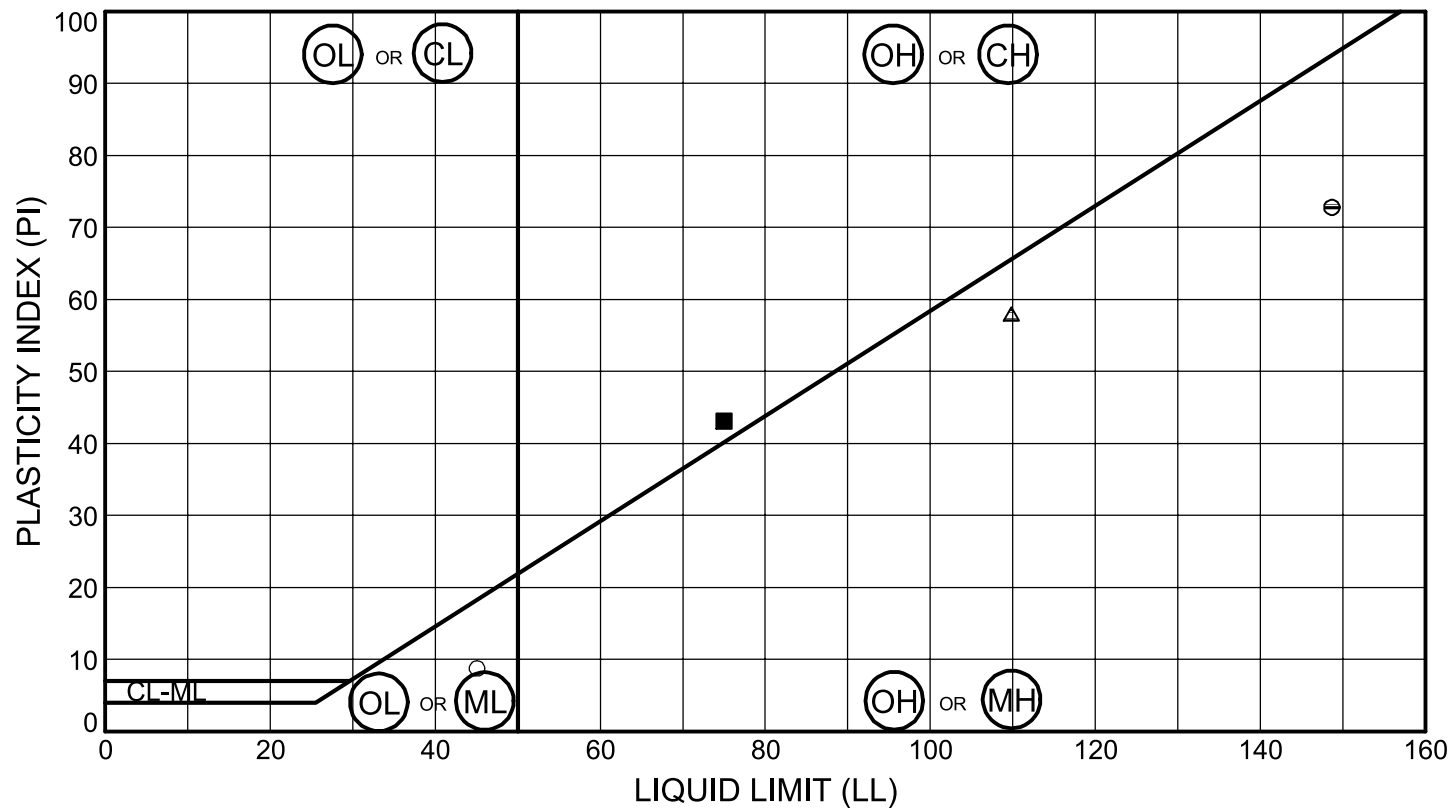


MLT for Terracon  
Centralia Costco  
Client Project No. 81205225

SUMMARY OF  
MATERIAL PROPERTIES

PAGE: 1 of 1

PROJECT NO.: 2012-045 T21 FIGURE: 1



| SYMBOL | SAMPLE | DEPTH (ft)  | CLASSIFICATION                        | % MC | LL  | PL | PI | % Fines |
|--------|--------|-------------|---------------------------------------|------|-----|----|----|---------|
| ⊖      | B-B02A | 15.0 - 17.3 | (OH) Dark grayish brown, organic SILT | 107  | 149 | 76 | 73 |         |
| ■      | B-E13  | 2.0 - 4.2   | (CH) Light olive brown, fat CLAY      | 36   | 75  | 32 | 43 |         |
| △      | B-P03  | 33.0 - 34.4 | (MH) Gray, elastic SILT               | 51   | 110 | 52 | 58 |         |
| ○      | B-P06  | 32.0 - 34.2 | (ML) Dark gray, sandy SILT            | 25   | 45  | 36 | 9  |         |

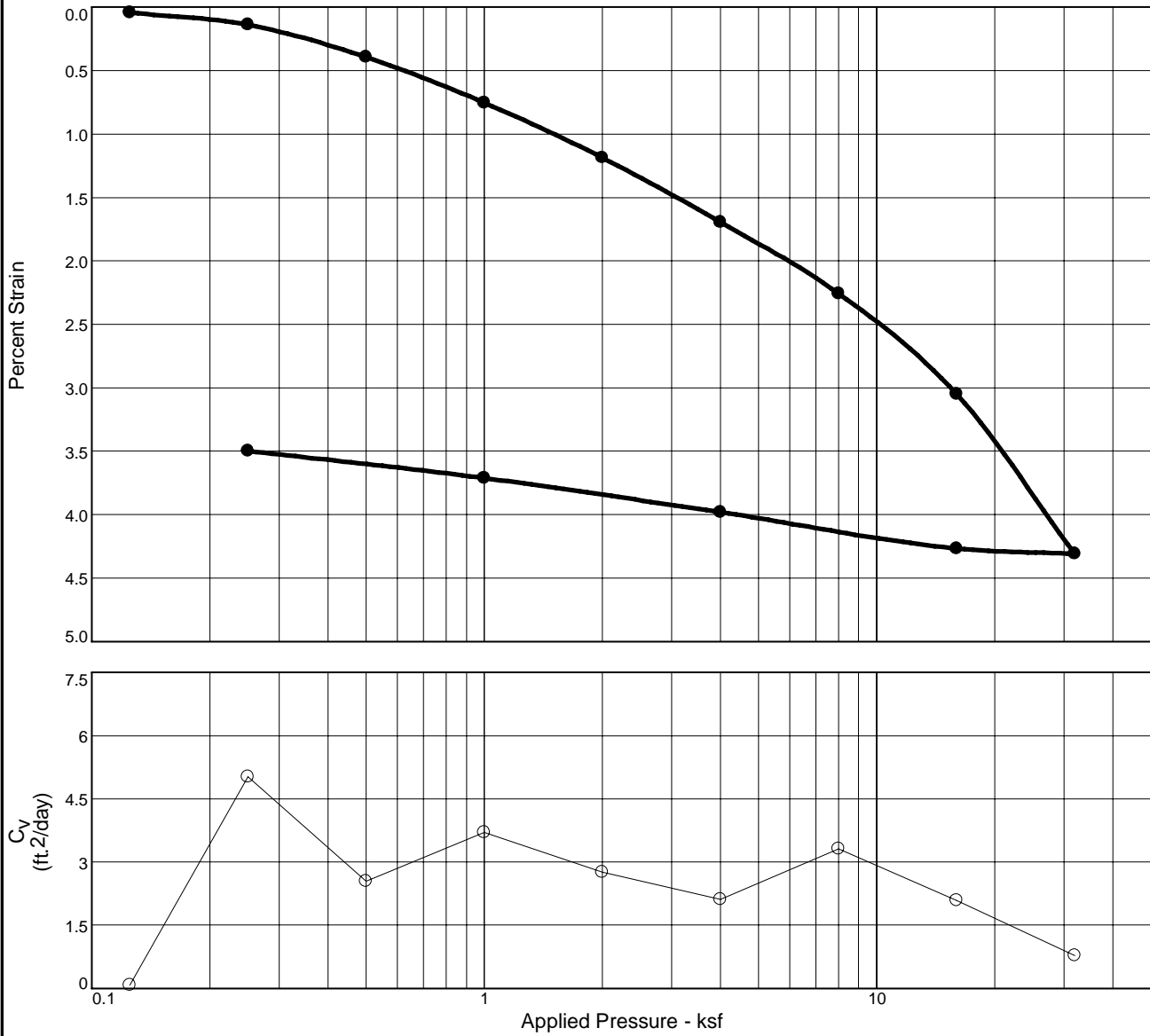


MLT for Terracon  
 Centralia Costco  
 Client Project No. 81205225

LIQUID LIMIT, PLASTIC LIMIT AND  
 PLASTICITY INDEX OF SOILS  
 METHOD ASTM D4318

PROJECT NO.: 2012-045 T21 FIGURE: 2

# CONSOLIDATION TEST REPORT



| Natural    |          | Dry Dens. (pcf) | LL | PI | Sp. Gr. | USCS | AASHTO | Initial Void Ratio |
|------------|----------|-----------------|----|----|---------|------|--------|--------------------|
| Saturation | Moisture |                 |    |    |         |      |        |                    |
| 90.4 %     | 25.5 %   | 95.8            | 45 | 9  | 2.65    | ML   |        | 0.746              |

### MATERIAL DESCRIPTION

Dark gray, sandy SILT

**Project No.** 2012-045      **Client:** Terracon  
**Project:** Centralia Costco  
**Source of Sample:** B-P06      **Depth:** 32

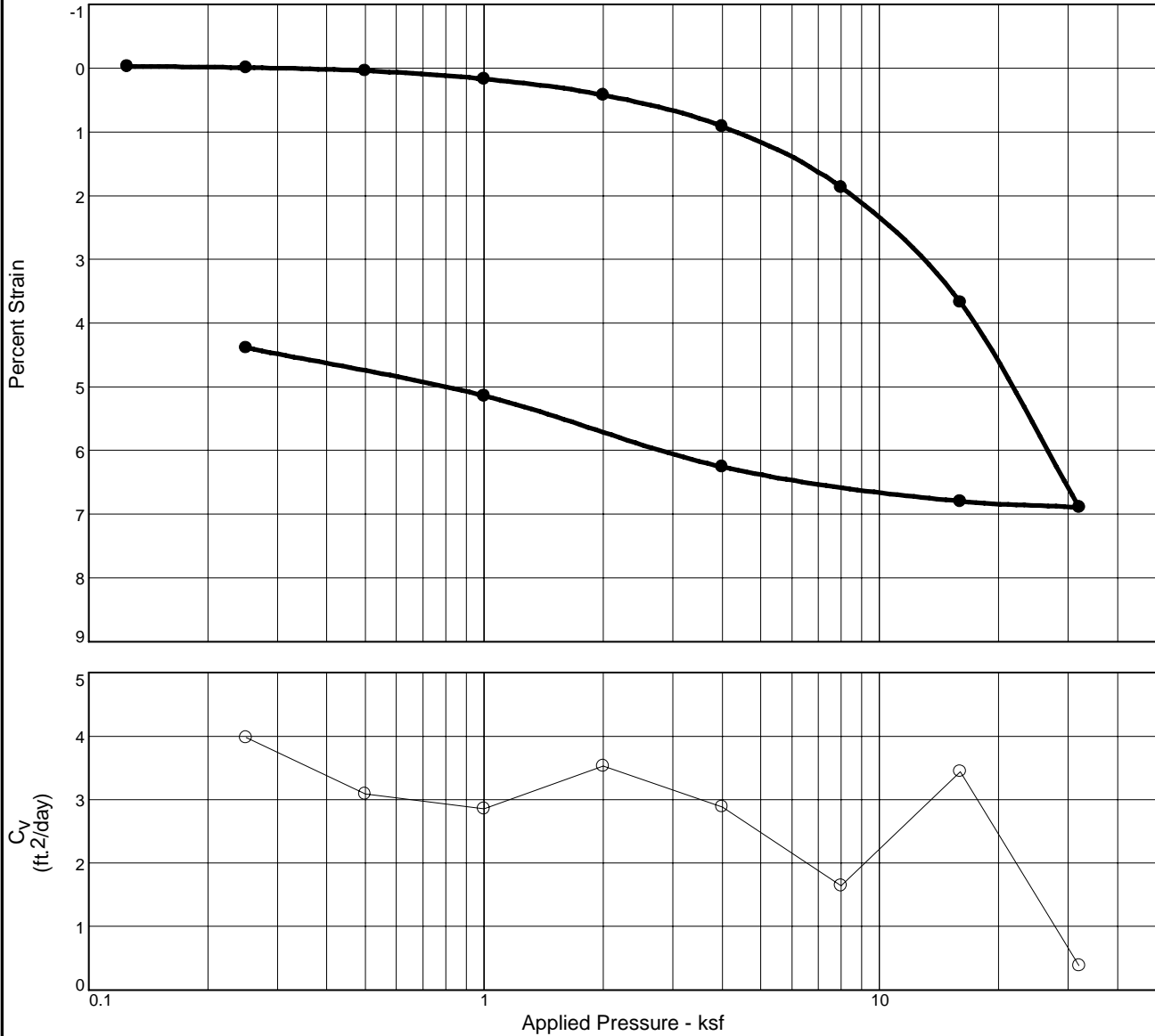
**Remarks:**  
 \*Specific gravity is assumed



Figure 3

**Tested By:** DW \_\_\_\_\_ **Checked By:** SEG \_\_\_\_\_

# CONSOLIDATION TEST REPORT



| Natural    |          | Dry Dens. (pcf) | LL  | PI | Sp. Gr. | USCS | AASHTO | Initial Void Ratio |
|------------|----------|-----------------|-----|----|---------|------|--------|--------------------|
| Saturation | Moisture |                 |     |    |         |      |        |                    |
| 92.8 %     | 50.5 %   | 67.7            | 110 | 58 | 2.65    | MH   |        | 1.442              |

### MATERIAL DESCRIPTION

Gray, elastic SILT

**Project No.** 2012-045      **Client:** Terracon  
**Project:** Centralia Costco  
**Source of Sample:** B-P03      **Depth:** 33

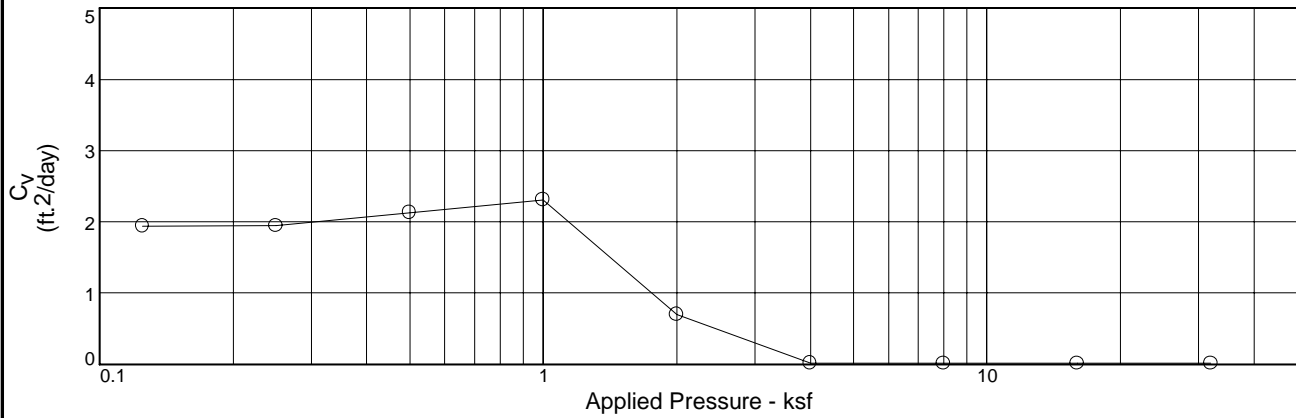
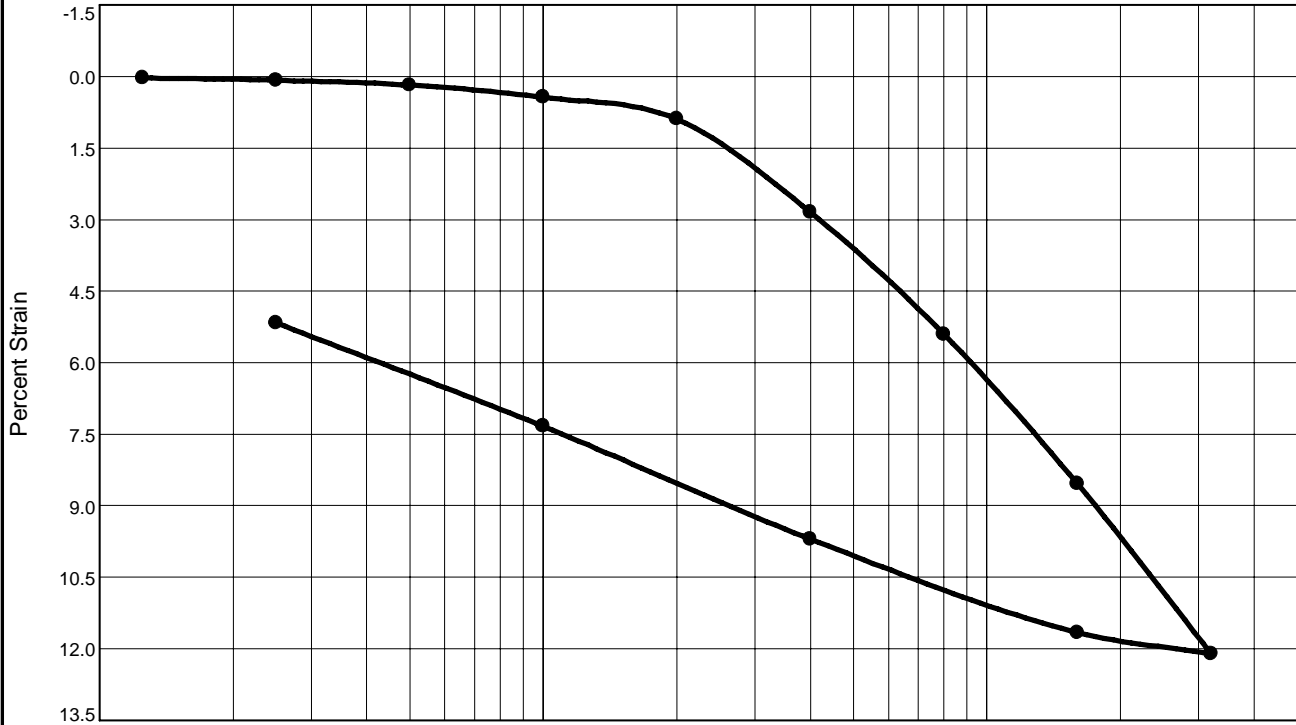
**Remarks:**  
 \*Specific gravity is assumed



Figure 4

**Tested By:** DW \_\_\_\_\_ **Checked By:** SEG \_\_\_\_\_

# CONSOLIDATION TEST REPORT



| Natural    |          | Dry Dens. (pcf) | LL | PI | Sp. Gr. | USCS | AASHTO | Initial Void Ratio |
|------------|----------|-----------------|----|----|---------|------|--------|--------------------|
| Saturation | Moisture |                 |    |    |         |      |        |                    |
| 98.6 %     | 34.5 %   | 85.8            | 75 | 43 | 2.65    | CH   |        | 0.928              |

### MATERIAL DESCRIPTION

Olive brown, fat CLAY

**Project No.** 2012-045      **Client:** Terracon  
**Project:** Centralia Costco  
**Source of Sample:** B-E13      **Depth:** 2

**Remarks:**  
 \*Specific gravity is assumed

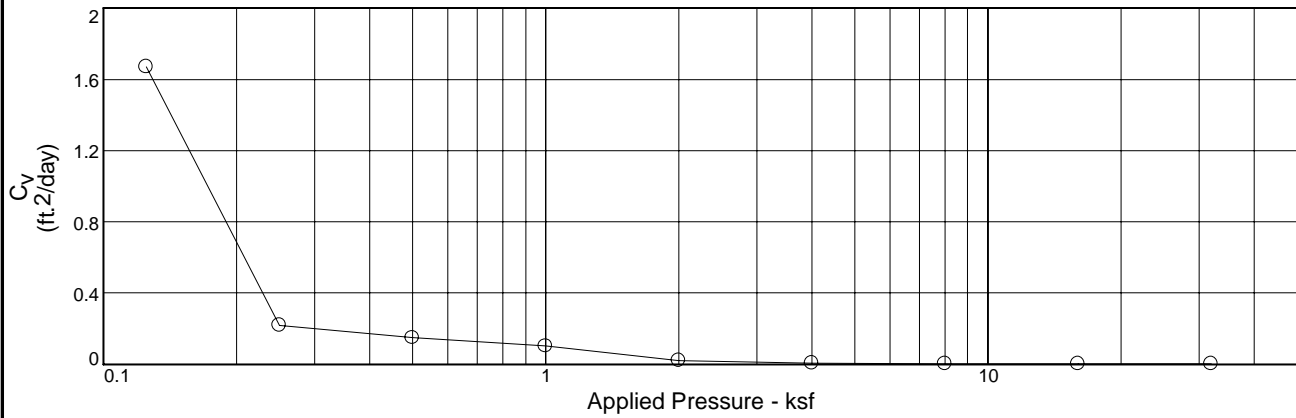
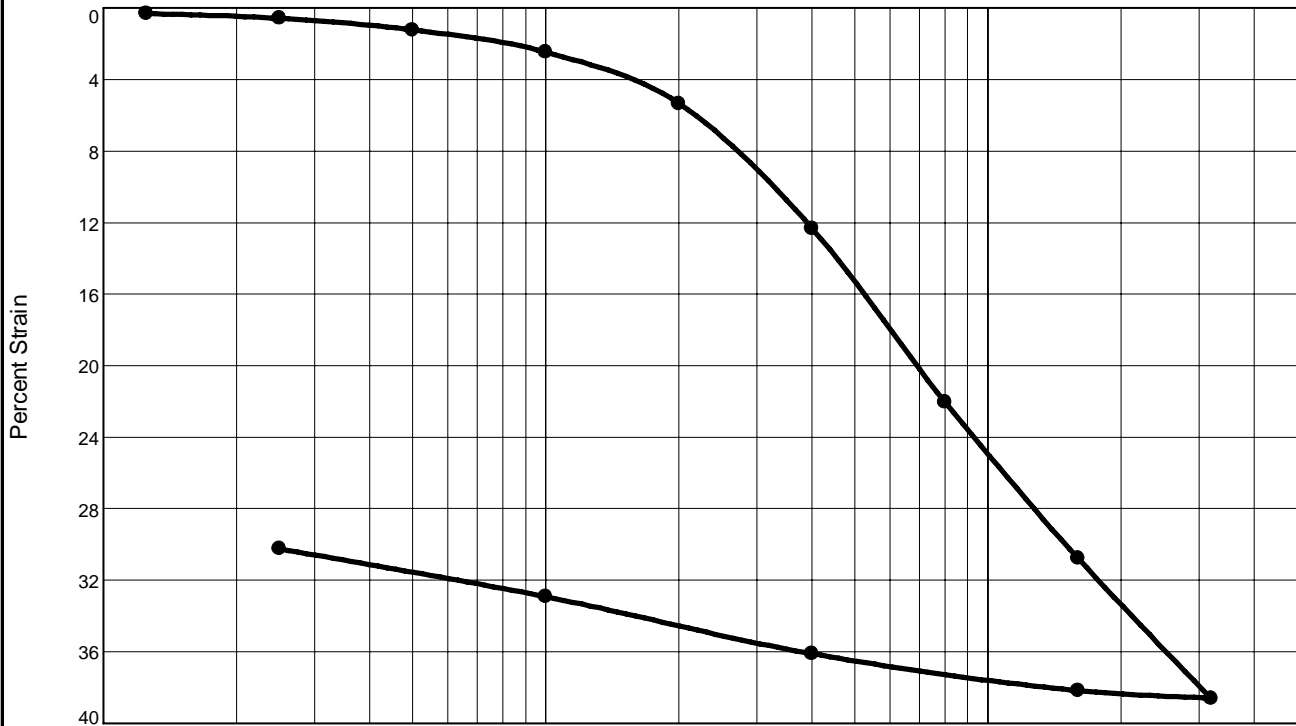


Figure 5

**Tested By:** DW \_\_\_\_\_ **Checked By:** SEG \_\_\_\_\_



# CONSOLIDATION TEST REPORT



| Natural    |          | Dry Dens. (pcf) | LL  | PI | Sp. Gr. | USCS | AASHTO | Initial Void Ratio |
|------------|----------|-----------------|-----|----|---------|------|--------|--------------------|
| Saturation | Moisture |                 |     |    |         |      |        |                    |
| 102.7 %    | 91.4 %   | 44.3            | 149 | 73 | 1.5     | OH   |        | 1.335              |

### MATERIAL DESCRIPTION

Dark grayish brown, organic SILT

|   |   |
|---|---|
| <b>Project No.</b> 2012-045 <b>Client:</b> Terracon<br><b>Project:</b> Centralia Costco<br><b>Source of Sample:</b> B-B02A <b>Depth:</b> 15 | <b>Remarks:</b><br>*Specific gravity is assumed |
|   |   |

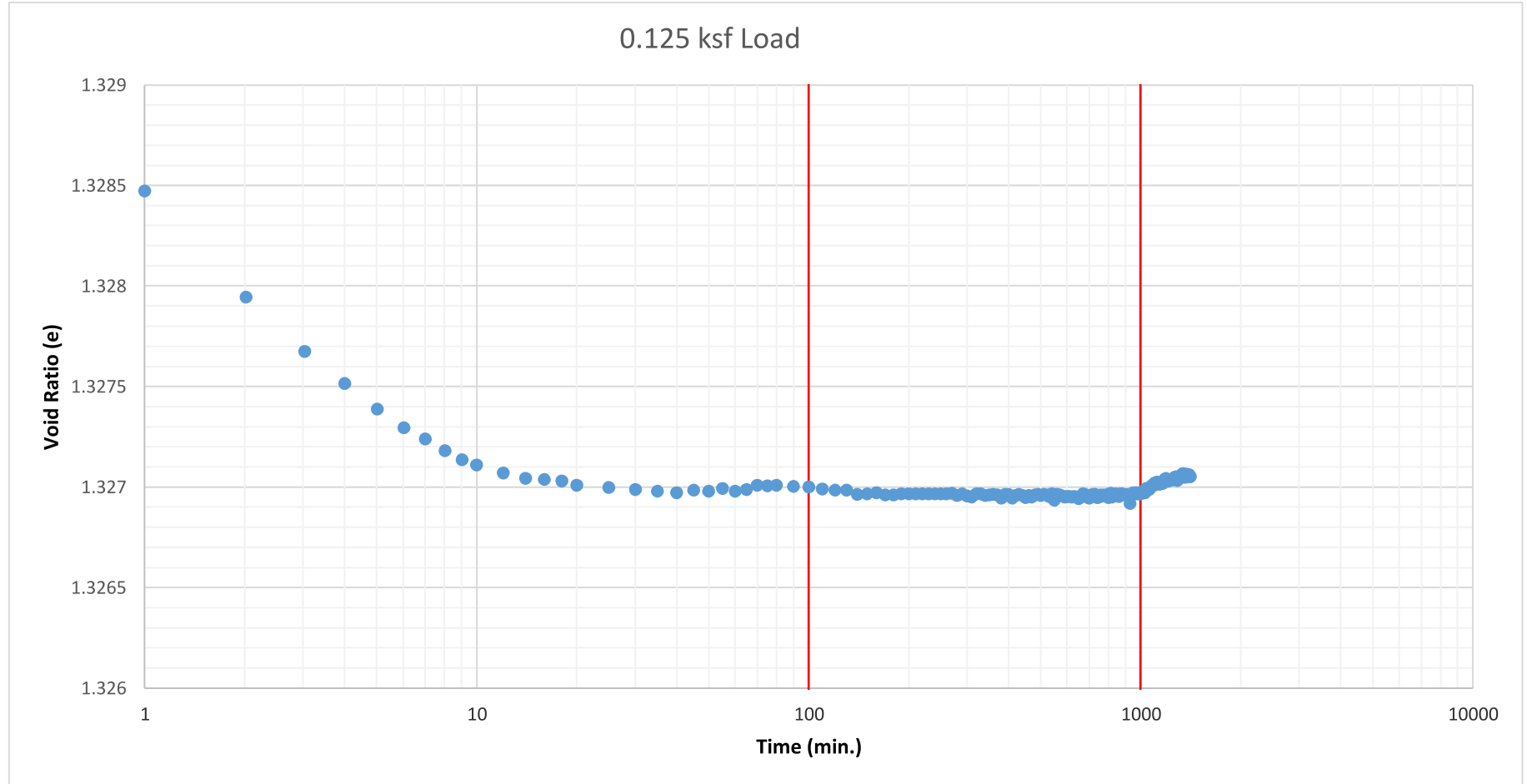
Figure 6

**Tested By:** DW \_\_\_\_\_ **Checked By:** SEG \_\_\_\_\_



# ONE DIMENSIONAL CONSOLIDATION OF SOIL ASTM D2435 SECONDARY COMPRESSION

|                     |                  |                   |         |                   |         |       |     |
|---------------------|------------------|-------------------|---------|-------------------|---------|-------|-----|
| Project Name:       | Centralia Costco | Sample Number:    | -       | Moisture Content: | Natural | 91.4  | %   |
| Project Number:     | 2012-045 T21     | Sample Depth:     | 15 feet | Saturation:       |         | 102.7 | %   |
| Exploration Number: | B-B02A           | Soil Description: | OH      | Dry Density:      |         | 44.3  | pcf |



$$C_{\alpha} = 1.3270 - 1.3270 = 0.0000$$

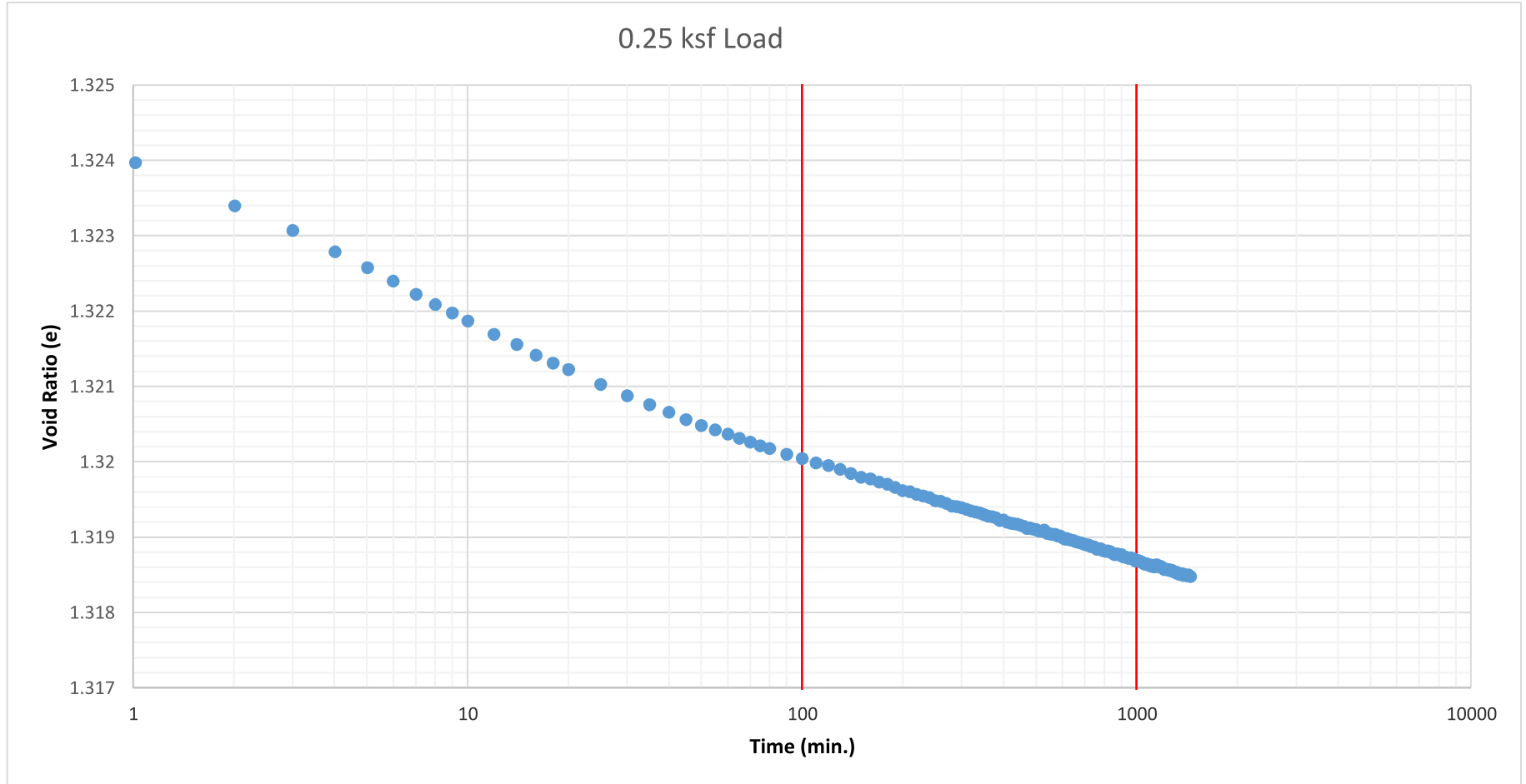
Figure: 7a



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# ONE DIMENSIONAL CONSOLIDATION OF SOIL ASTM D2435 SECONDARY COMPRESSION

|                     |                  |                   |         |                   |         |       |     |
|---------------------|------------------|-------------------|---------|-------------------|---------|-------|-----|
| Project Name:       | Centralia Costco | Sample Number:    | -       | Moisture Content: | Natural | 91.4  | %   |
| Project Number:     | 2012-045 T21     | Sample Depth:     | 15 feet | Saturation:       |         | 102.7 | %   |
| Exploration Number: | B-B02A           | Soil Description: | OH      | Dry Density:      |         | 44.3  | pcf |



$$C_{\alpha} = 1.3200 - 1.3187 = 0.0014$$

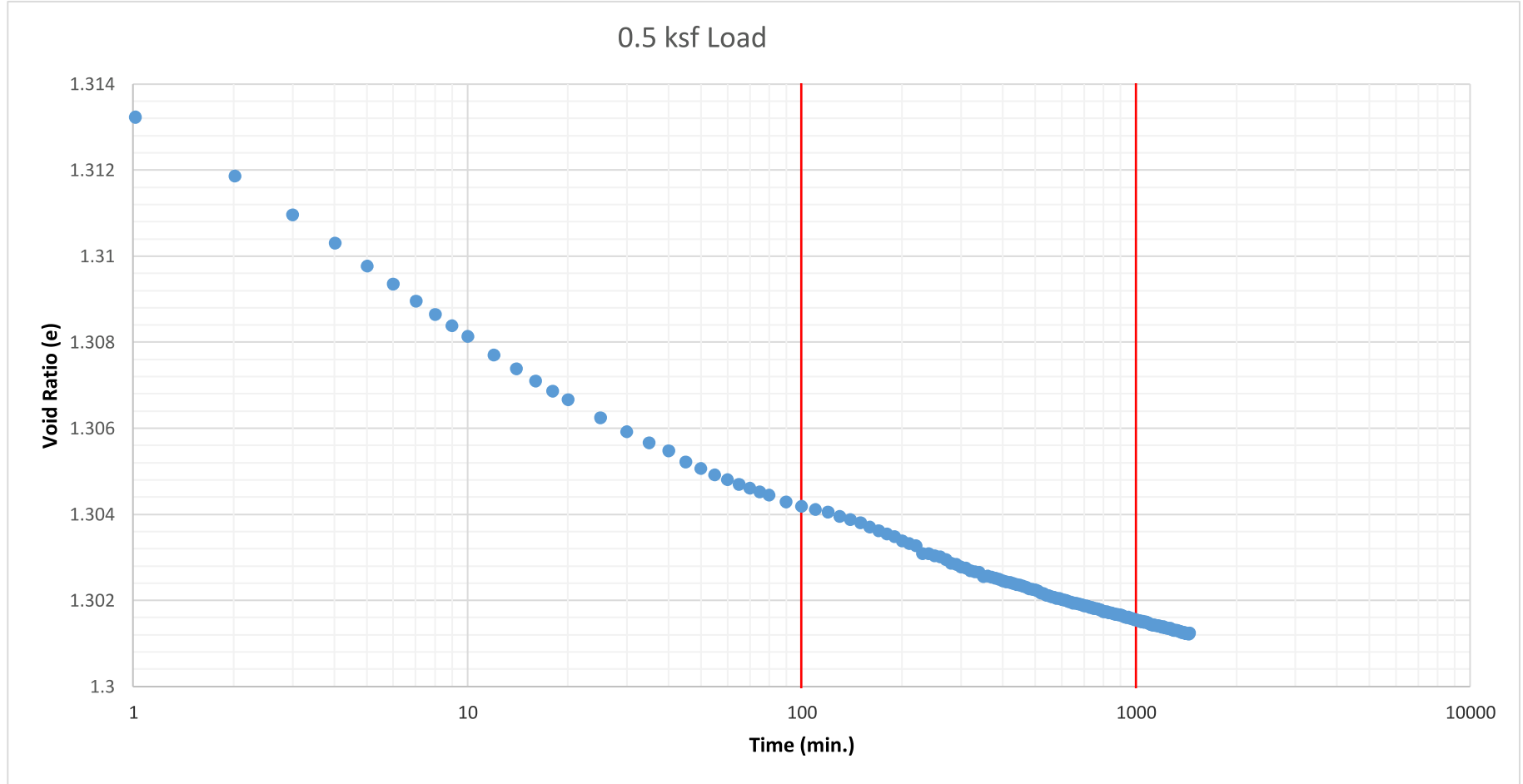
Figure: 7b



GEOSCIENCES INC.

# ONE DIMENSIONAL CONSOLIDATION OF SOIL ASTM D2435 SECONDARY COMPRESSION

|                     |                  |                  |         |                  |         |       |     |
|---------------------|------------------|------------------|---------|------------------|---------|-------|-----|
| Project Name:       | Centralia Costco | Sample Number    | -       | Moisture Content | Natural | 91.4  | %   |
| Project Number:     | 2012-045 T21     | Sample Depth     | 15 feet | Saturation       |         | 102.7 | %   |
| Exploration Number: | B-B02A           | Soil Description | OH      | Dry Density      |         | 44.3  | pcf |



$$C_{\alpha} = 1.3042 - 1.3016 = 0.0026$$

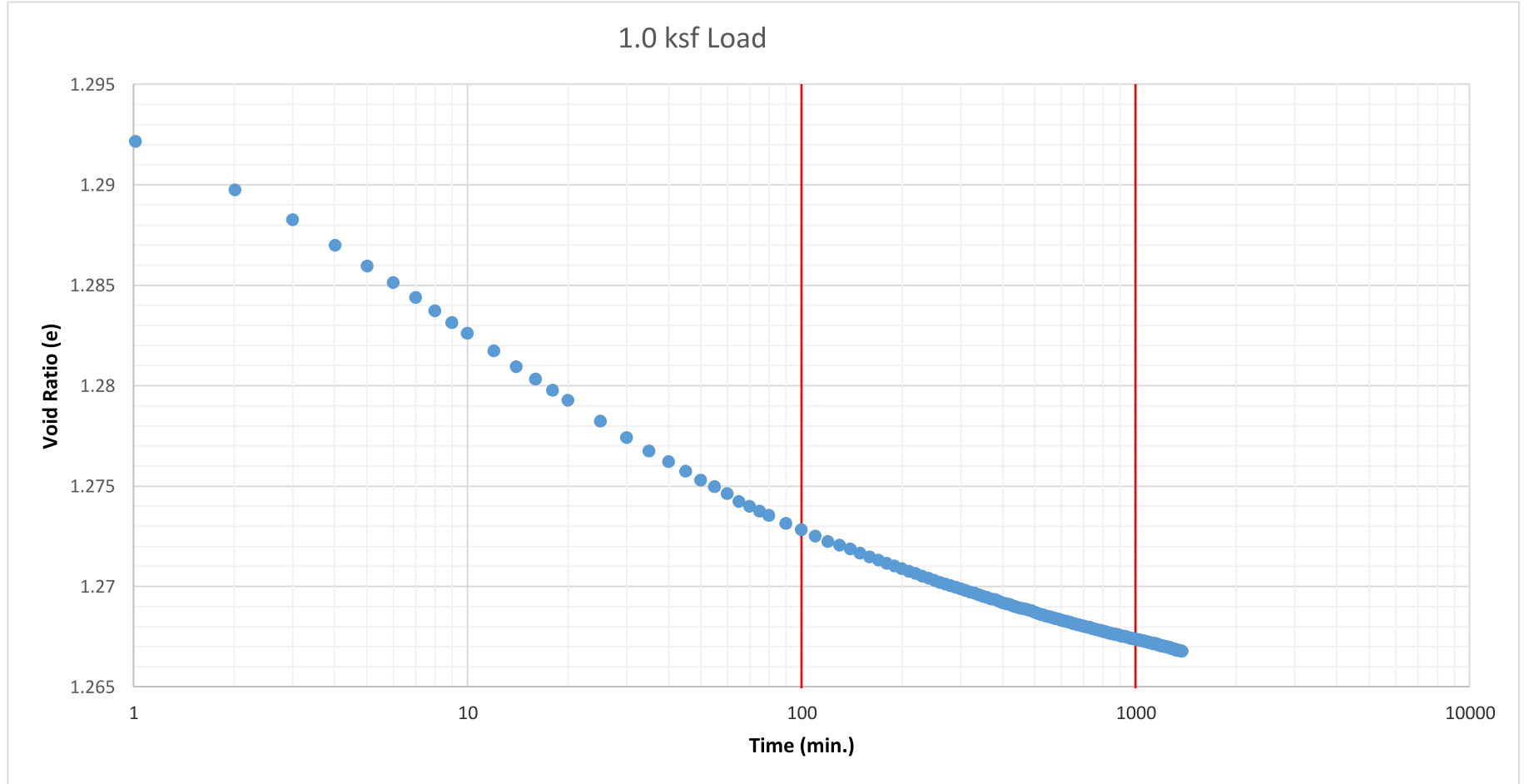
Figure: 7c



GEOSCIENCES INC.

# ONE DIMENSIONAL CONSOLIDATION OF SOIL ASTM D2435 SECONDARY COMPRESSION

|                     |                  |                   |         |                   |         |       |     |
|---------------------|------------------|-------------------|---------|-------------------|---------|-------|-----|
| Project Name:       | Centralia Costco | Sample Number:    | -       | Moisture Content: | Natural | 91.4  | %   |
| Project Number:     | 2012-045 T21     | Sample Depth:     | 15 feet | Saturation:       |         | 102.7 | %   |
| Exploration Number: | B-B02A           | Soil Description: | OH      | Dry Density:      |         | 44.3  | pcf |



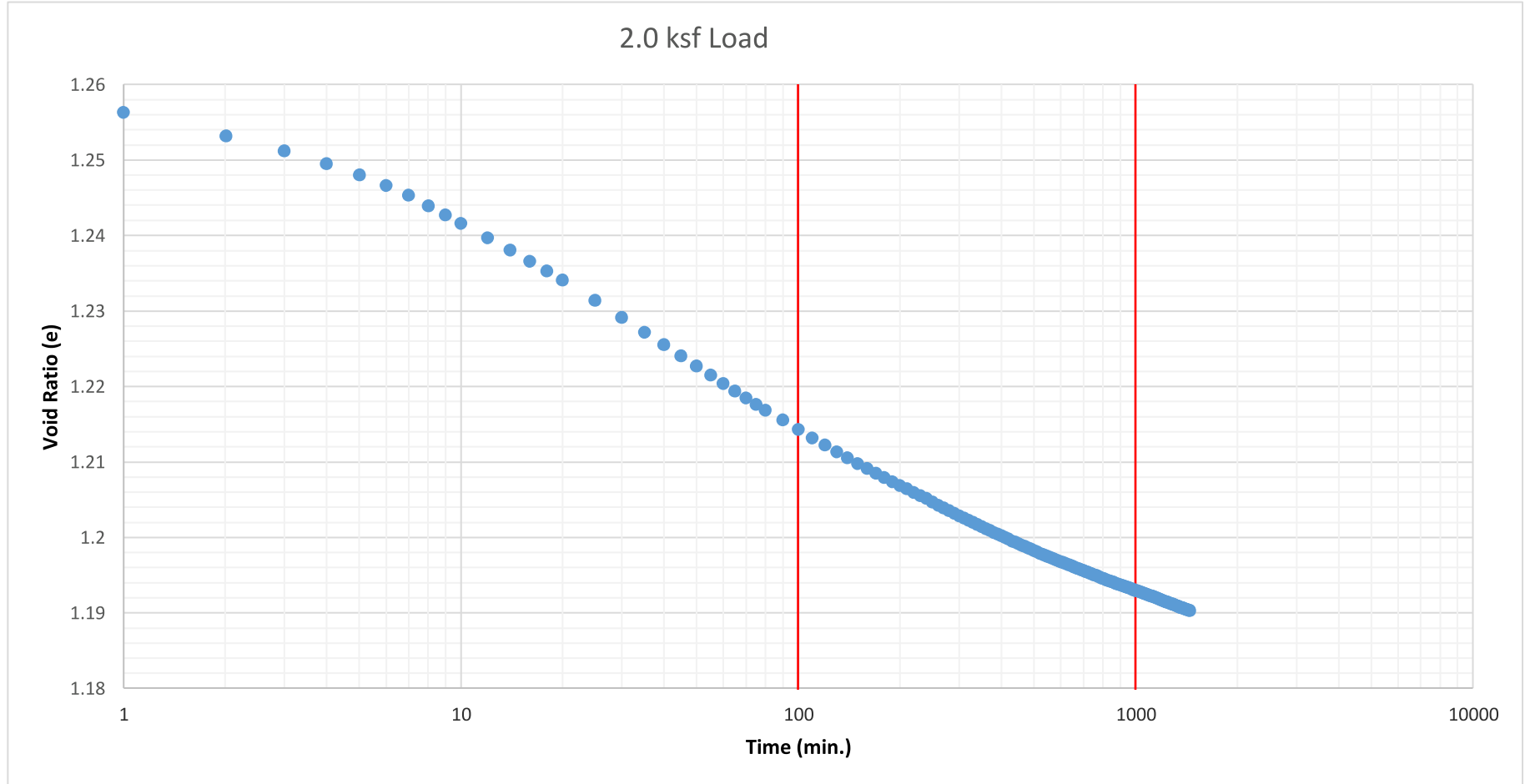
|                |        |   |        |   |        |
|----------------|--------|---|--------|---|--------|
| $C_{\alpha} =$ | 1.2728 | - | 1.2674 | = | 0.0055 |
|----------------|--------|---|--------|---|--------|

Figure: 7d



# ONE DIMENSIONAL CONSOLIDATION OF SOIL ASTM D2435 SECONDARY COMPRESSION

|                     |                  |                   |         |                   |         |       |     |
|---------------------|------------------|-------------------|---------|-------------------|---------|-------|-----|
| Project Name:       | Centralia Costco | Sample Number:    | -       | Moisture Content: | Natural | 91.4  | %   |
| Project Number:     | 2012-045 T21     | Sample Depth:     | 15 feet | Saturation:       |         | 102.7 | %   |
| Exploration Number: | B-B02A           | Soil Description: | OH      | Dry Density:      |         | 44.3  | pcf |



$$C_{\alpha} = 1.2143 - 1.1930 = 0.0213$$

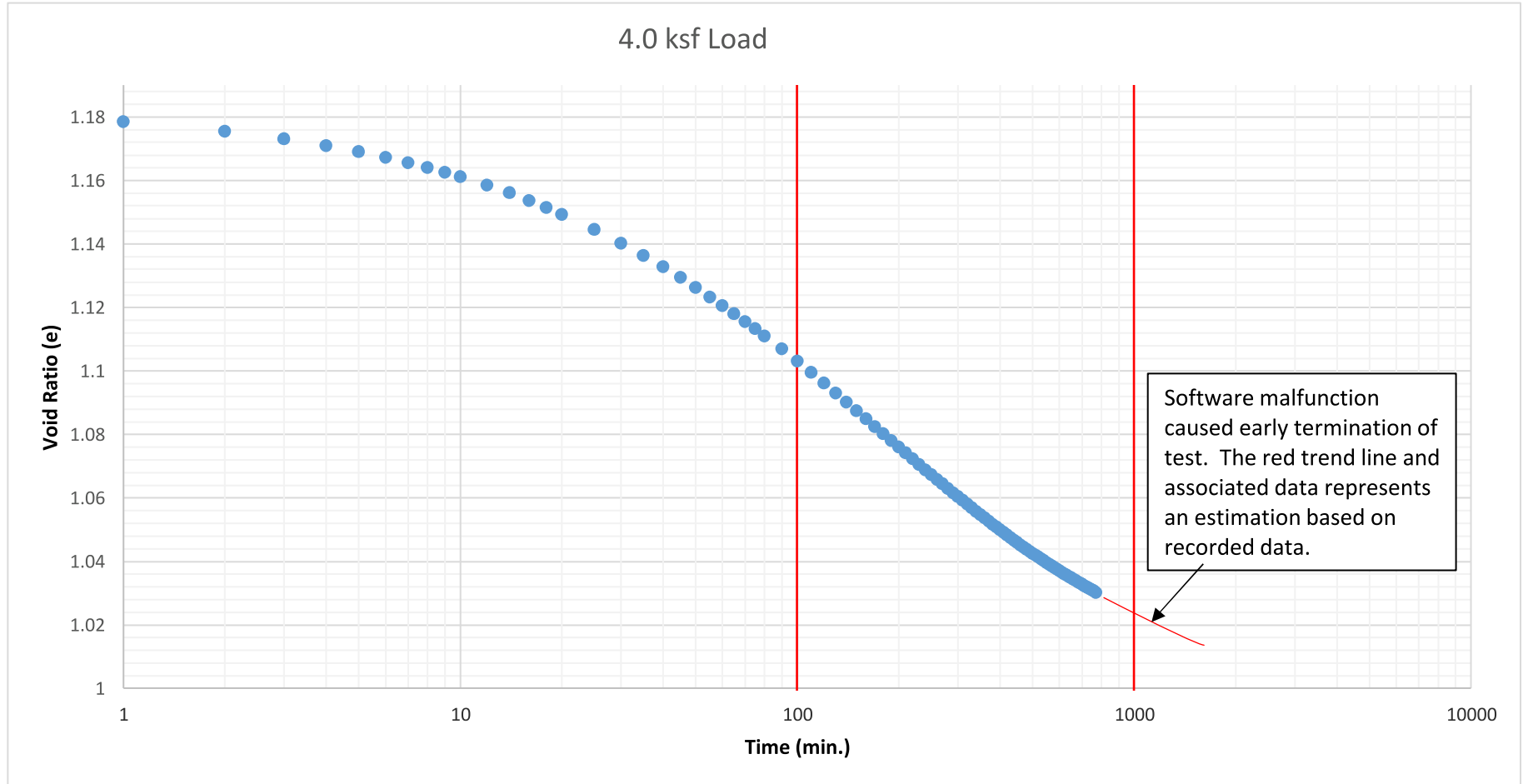
Figure: 7e



# ONE DIMENSIONAL CONSOLIDATION OF SOIL ASTM D2435

## SECONDARY COMPRESSION

|                     |                  |                   |         |                   |       |     |
|---------------------|------------------|-------------------|---------|-------------------|-------|-----|
| Project Name:       | Centralia Costco | Sample Number:    | -       | Moisture Content: | 91.4  | %   |
| Project Number:     | 2012-045 T21     | Sample Depth:     | 15 feet | Saturation:       | 102.7 | %   |
| Exploration Number: | B-B02A           | Soil Description: | OH      | Dry Density:      | 44.3  | pcf |



|                |        |   |        |   |        |
|----------------|--------|---|--------|---|--------|
| $C_{\alpha} =$ | 1.1031 | - | 1.0240 | = | 0.0791 |
|----------------|--------|---|--------|---|--------|

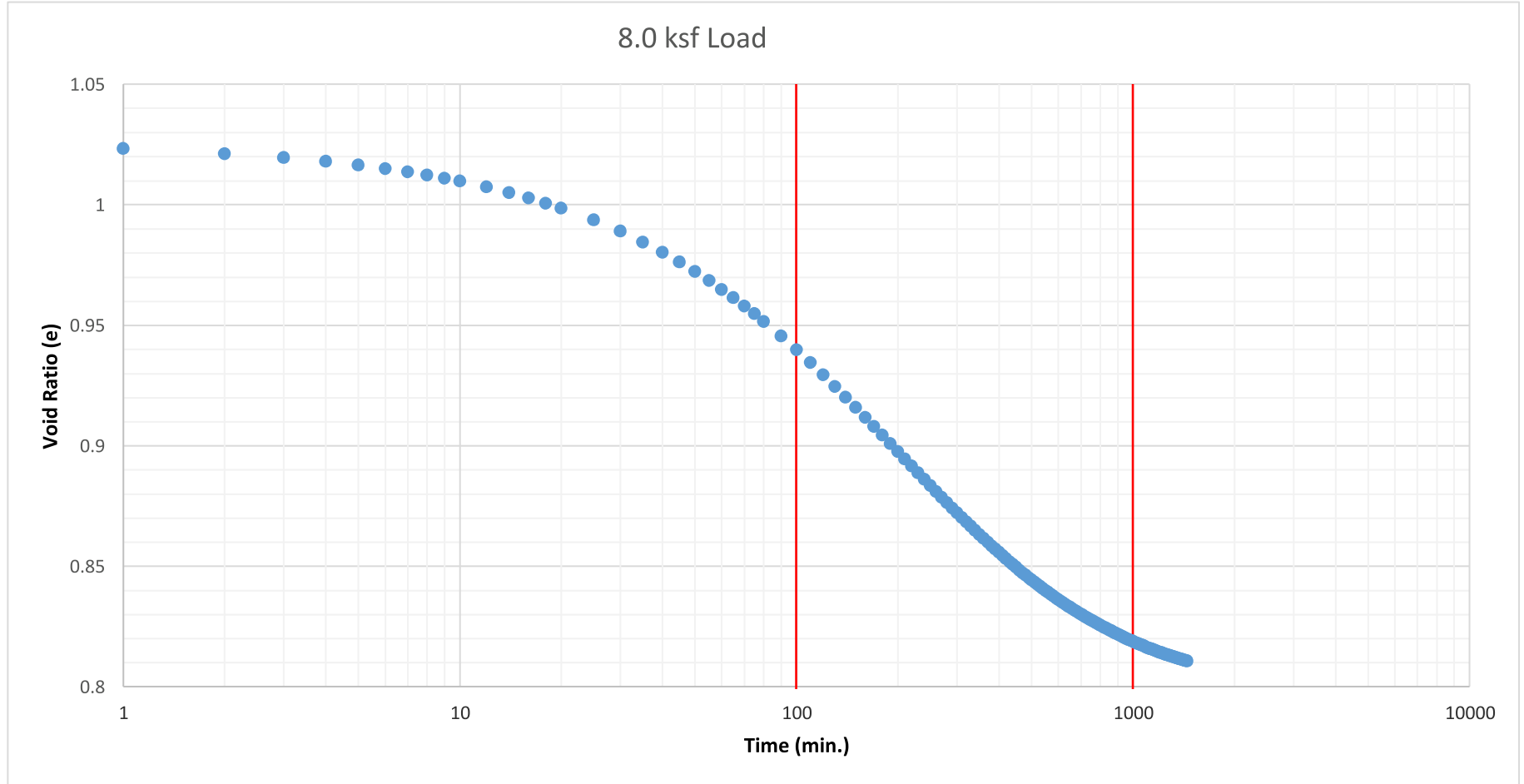
Figure: 7f



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# ONE DIMENSIONAL CONSOLIDATION OF SOIL ASTM D2435 SECONDARY COMPRESSION

|                     |                  |                   |         |                   |         |       |     |
|---------------------|------------------|-------------------|---------|-------------------|---------|-------|-----|
| Project Name:       | Centralia Costco | Sample Number:    | -       | Moisture Content: | Natural | 91.4  | %   |
| Project Number:     | 2012-045 T21     | Sample Depth:     | 15 feet | Saturation:       |         | 102.7 | %   |
| Exploration Number: | B-B02A           | Soil Description: | OH      | Dry Density:      |         | 44.3  | pcf |



|                |        |   |        |   |        |
|----------------|--------|---|--------|---|--------|
| $C_{\alpha} =$ | 0.9399 | - | 0.8188 | = | 0.1210 |
|----------------|--------|---|--------|---|--------|

Figure: 7g

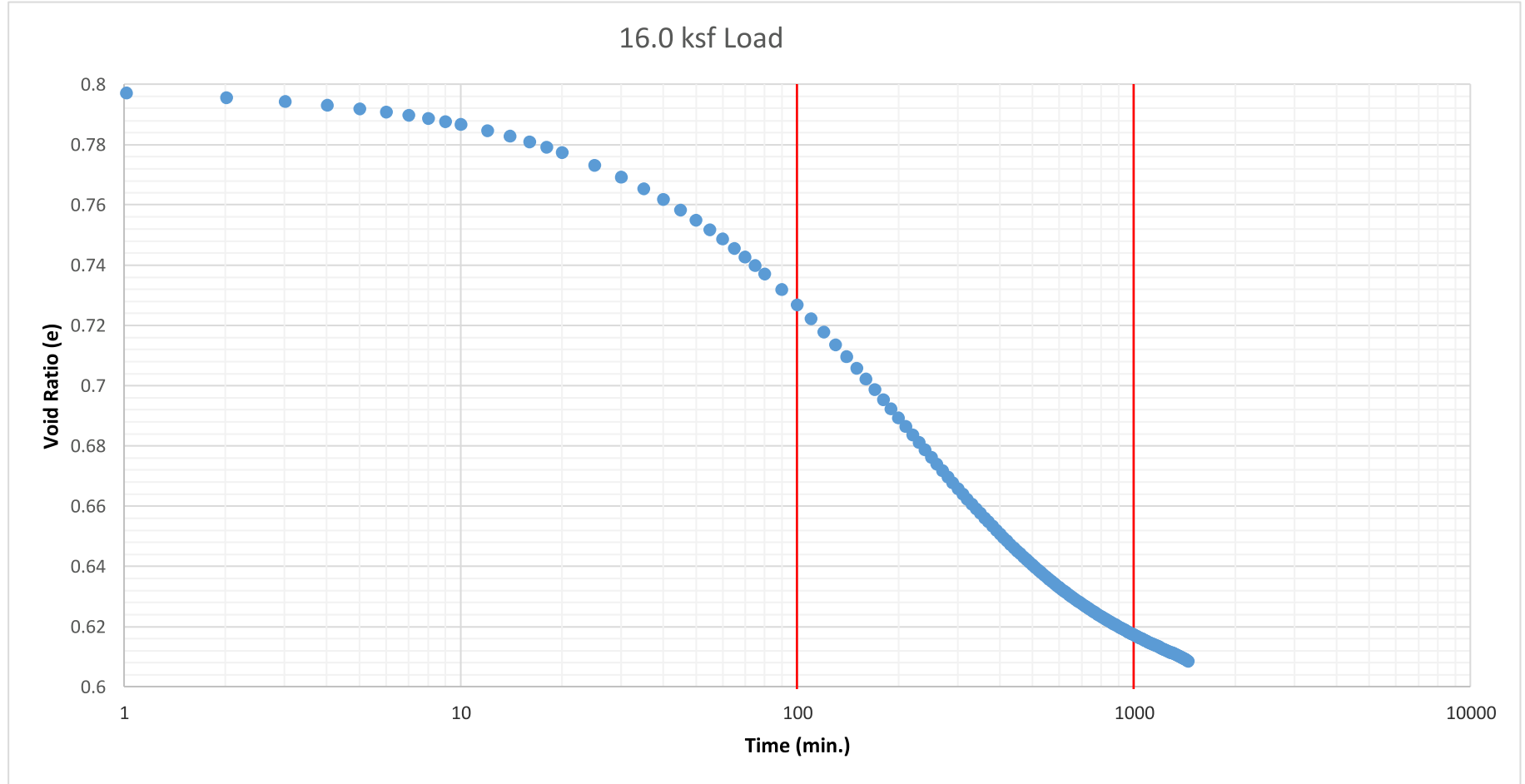




GEOSCIENCES INC.

# ONE DIMENSIONAL CONSOLIDATION OF SOIL ASTM D2435 SECONDARY COMPRESSION

|                     |                  |                   |         |                   |         |       |     |
|---------------------|------------------|-------------------|---------|-------------------|---------|-------|-----|
| Project Name:       | Centralia Costco | Sample Number:    | -       | Moisture Content: | Natural | 91.4  | %   |
| Project Number:     | 2012-045 T21     | Sample Depth:     | 15 feet | Saturation:       |         | 102.7 | %   |
| Exploration Number: | B-B02A           | Soil Description: | OH      | Dry Density:      |         | 44.3  | pcf |



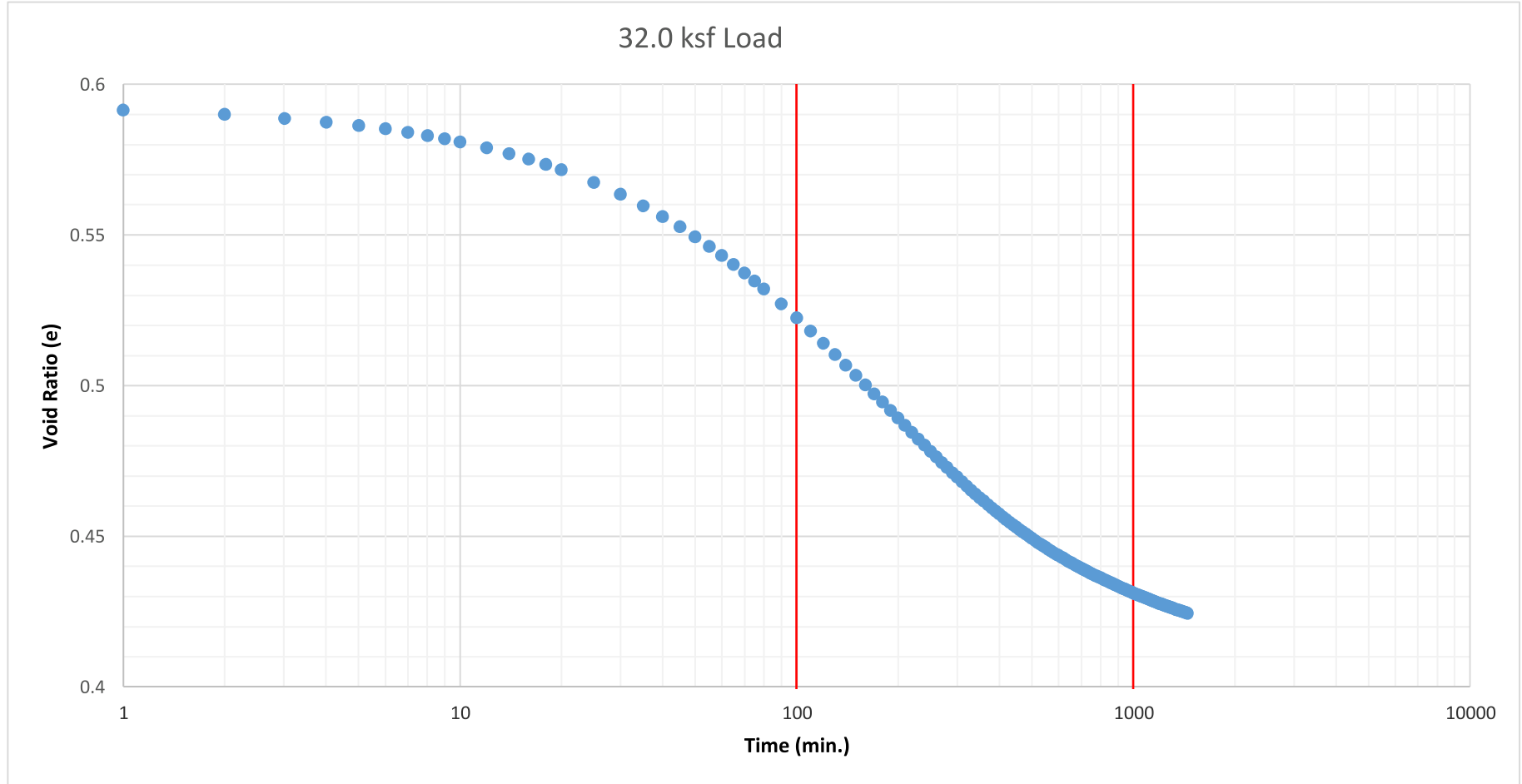
|                |        |   |        |   |        |
|----------------|--------|---|--------|---|--------|
| $C_{\alpha} =$ | 0.7268 | - | 0.6172 | = | 0.1096 |
|----------------|--------|---|--------|---|--------|

Figure: 7h



# ONE DIMENSIONAL CONSOLIDATION OF SOIL ASTM D2435 SECONDARY COMPRESSION

|                     |                  |                   |         |                   |         |      |   |
|---------------------|------------------|-------------------|---------|-------------------|---------|------|---|
| Project Name:       | Centralia Costco | Sample Number:    | -       | Moisture Content: | Natural | 91.4 | % |
| Project Number:     | 2012-045 T21     | Sample Depth:     | 15 feet | Saturation:       | 102.7   | %    |   |
| Exploration Number: | B-B02A           | Soil Description: | OH      | Dry Density:      | 44.3    | pcf  |   |



$$C_{\alpha} = 0.5224 - 0.4311 = 0.0913$$

Figure: 7i

| SAMPLE |  | DEPTH (ft)  |
|--------|--|-------------|
| B-B02A |  | 15.0 - 17.3 |



|                                 |  |                                    |                               |                                       |
|---------------------------------|--|------------------------------------|-------------------------------|---------------------------------------|
| Olive gray, SILT with sand (ML) | Grayish brown, SILT with organics (ML) | Reddish brown, SILT with sand (ML) | Grayish brown, lean clay (CL) | Dark grayish brown, organic SILT (OH) |
|---------------------------------|--|------------------------------------|-------------------------------|---------------------------------------|

↑  
Light grayish brown, SILT with sand (ML)

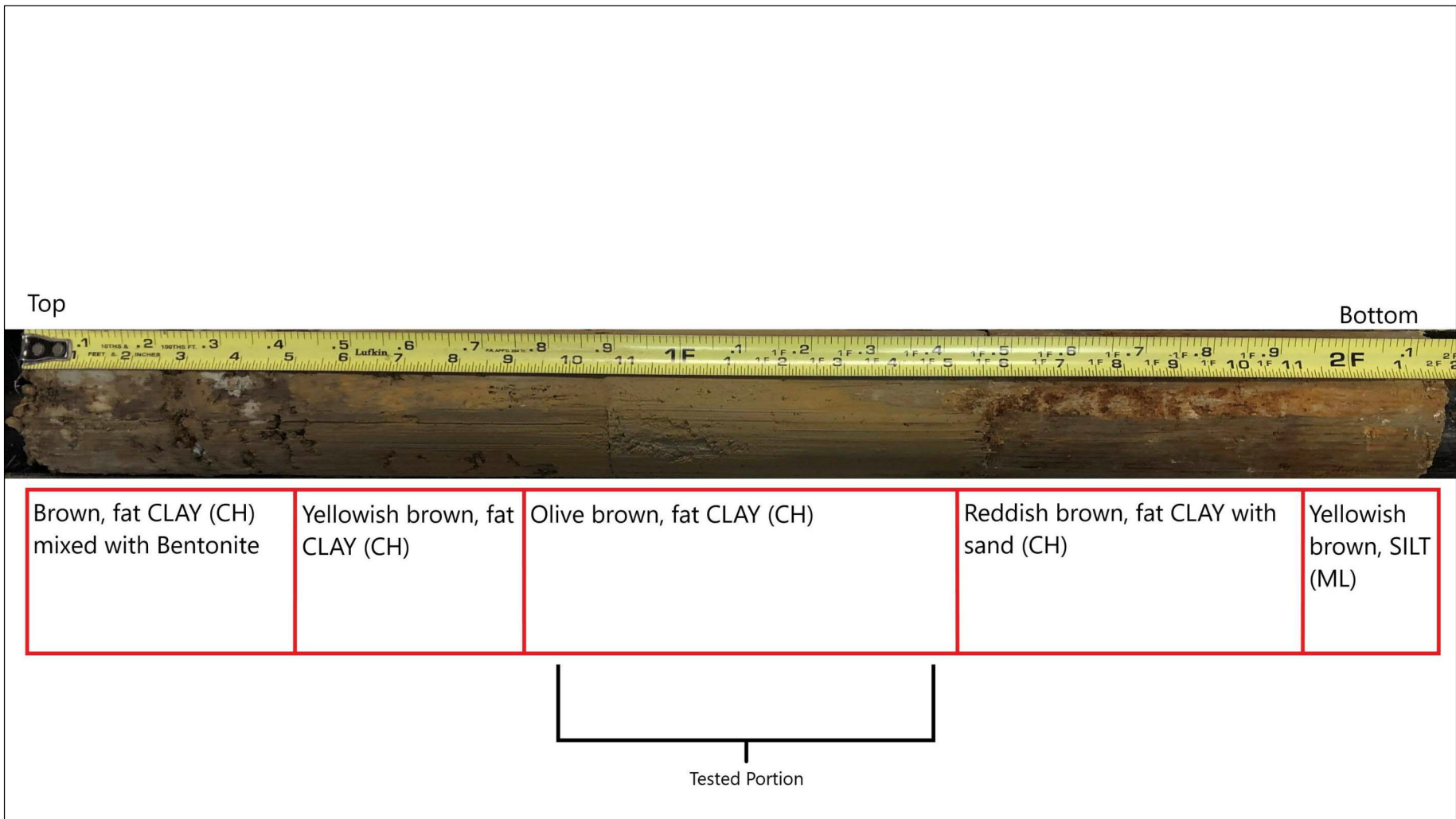
└───┘  
Tested Portion



MLT for Terracon  
Centralia Costco  
Client Project No. 81205225

## SHELBY TUBE EXTRUSION LOG

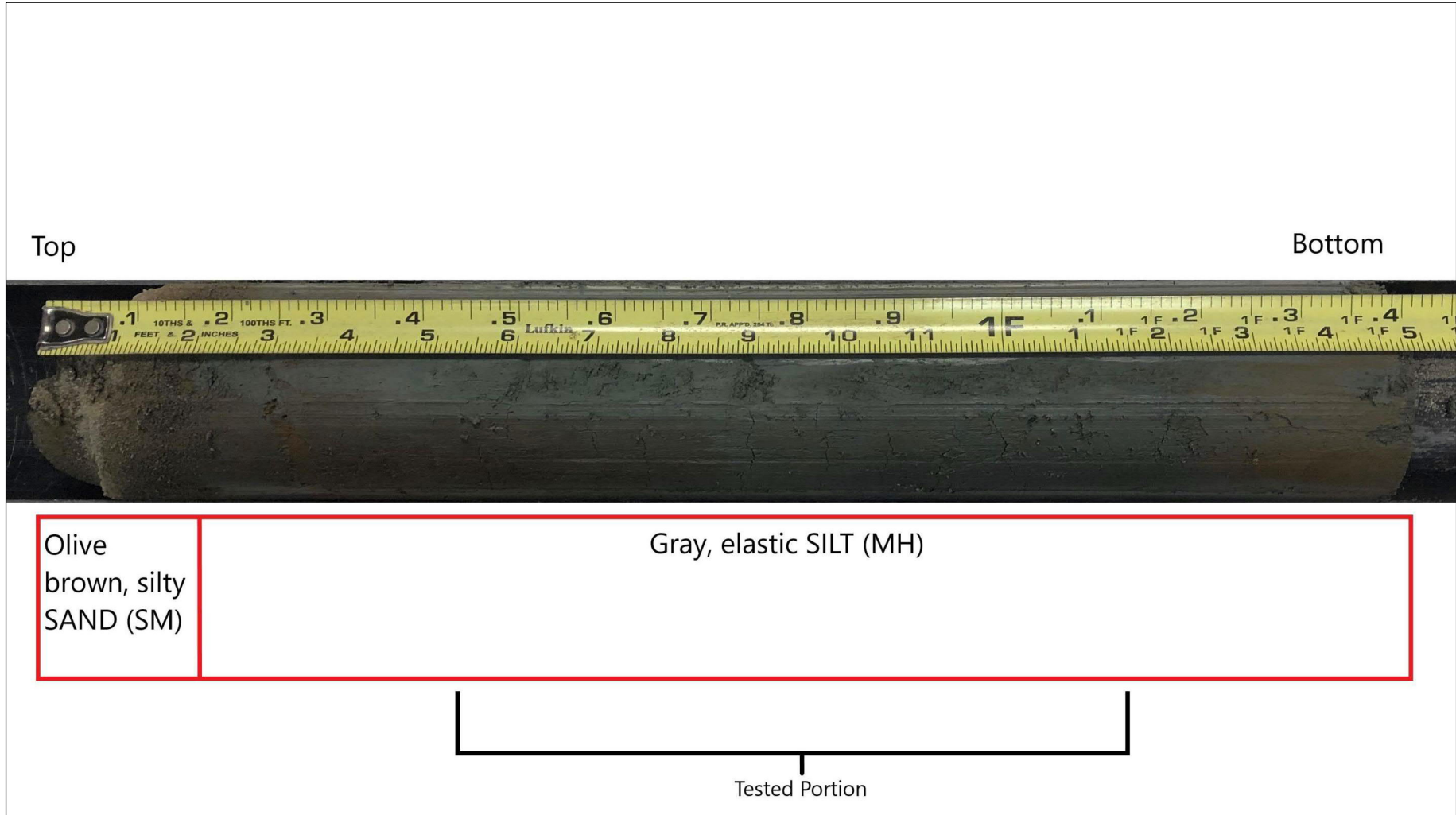
| SAMPLE |  | DEPTH (ft) |
|--------|--|------------|
| B-E13  |  | 2.0 - 4.2  |



MLT for Terracon  
 Centralia Costco  
 Client Project No. 81205225

SHELBY TUBE  
 EXTRUSION LOG

| SAMPLE |  | DEPTH (ft)  |
|--------|--|-------------|
| B-P03  |  | 33.0 - 34.4 |



Top

Bottom

Olive  
brown, silty  
SAND (SM)

Gray, elastic SILT (MH)

Tested Portion

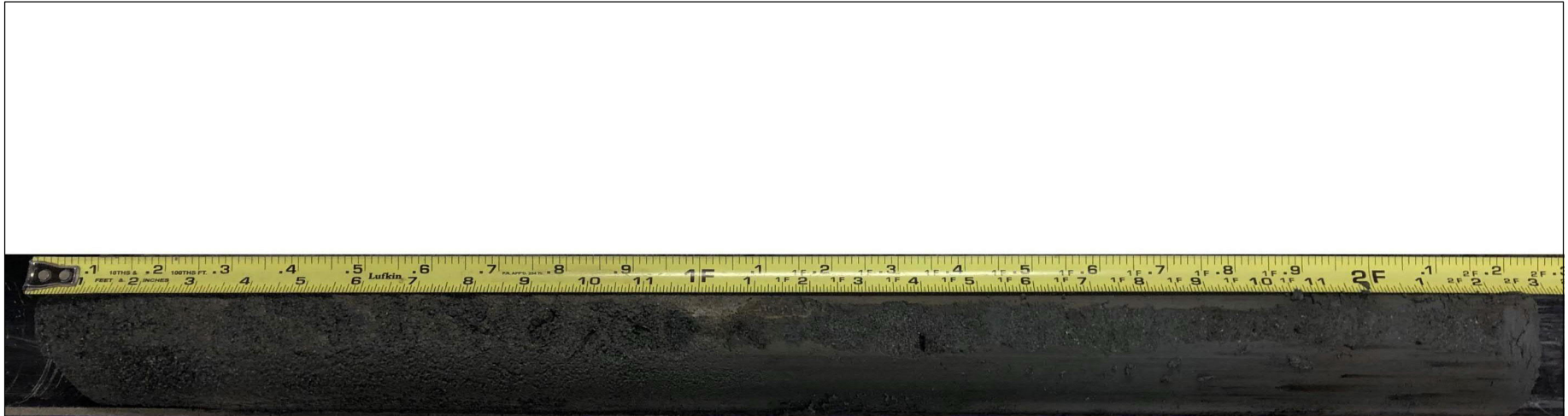


MLT for Terracon  
Centralia Costco  
Client Project No. 81205225

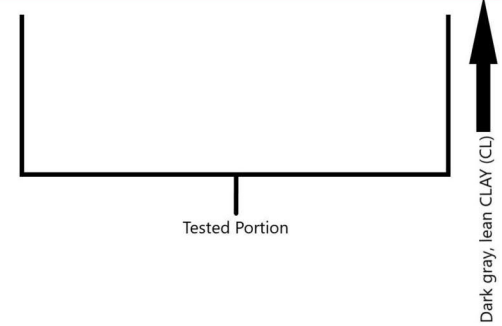
SHELBY TUBE  
EXTRUSION LOG

PROJECT NO.: 2012-045 T21 FIGURE: 10

| SAMPLE |  | DEPTH (ft)  |
|--------|--|-------------|
| B-P06  |  | 32.0 - 34.2 |



|                                    |   |                            |                            |                            |  |
|------------------------------------|---|----------------------------|----------------------------|----------------------------|--|
| Dark gray, poorly graded SAND (SP) | Dark gray, poorly graded SAND with silt (SP-SM) | Dark gray, sandy SILT (ML) | Dark gray, silty SAND (SM) | Dark gray, sandy SILT (ML) |  |
|------------------------------------|---|----------------------------|----------------------------|----------------------------|--|



MLT for Terracon  
 Centralia Costco  
 Client Project No. 81205225

SHELBY TUBE  
 EXTRUSION LOG