GEOTECHNICAL ENGINEERING REPORT

Project Peninsula

Prepared for: AMS 2024 BTS - Port Angeles WA, LLC

Project No. NWG0010 • April 8, 2025 FINAL

Aspect
A Geosyntec Company

earth + water

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Aspect Consulting

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Executive Summary

Aspect Consulting, a Geosyntec Company (Aspect) completed a geotechnical engineering study to support design and construction of a new warehouse distribution center designated as "Project Peninsula" (Project). The Project site is located on a portion of Clallam County Parcel No. 073012120075, northwest of the intersection between South Critchfield Drive and West Edgewood Drive in Port Angeles, Washington (Site; Figures 1 and 2).

Based on our review of existing conditions, field investigations, and engineering analyses, the Project is feasible from a geotechnical engineering perspective provided the recommendations in this report are incorporated into design and construction. The key geotechnical engineering recommendations and conclusions are summarized below.

- The Site is mantled by soft, wet, fine-grained alluvial deposits (silt and clay) to depths ranging from 7 to 12 feet below the ground surface (bgs) overlying medium dense to very dense coarse-grained alluvial deposits (sand and gravel) overlying very dense glacial till encountered at depths ranging from 25 to 35 feet bgs. Shallow, perched groundwater is present across the Site at depths approaching the ground surface.
- With proper preparation and design considerations, which may include cement treatment or geotextile reinforcement, the fine-grained alluvial deposits can provide reasonable support for pavements.
- Due to the compressibility of the fine-grained alluvial deposits and the presence of scattered and discontinuous liquefiable zones, the proposed building foundations should be supported on improved ground consisting of rammed aggregate piers (RAPs), or use deep foundations (driven small-diameter steel pipe piles) for support.
- Slabs-on-grade should be constructed over aggregate pads extending a minimum of 2 feet below the slabs or over wider-spaced RAPs.
- The Site classifies as seismic Site Class D in accordance with the 2021 International Building Code.
- The Site is not mapped by Clallam County as containing or adjacent to any geologically hazardous areas, and our review and study did not reveal geologic hazards at/near the Site except for the risk of strong ground shaking during an earthquake. The risk of negative impacts to the Site, such as vertical and lateral ground deformation from seismic hazards of soil liquefaction, fault rupture, landslide hazards, and instability of Site slopes from shaking, is very low and does not require additional analysis.
- Shallow stormwater infiltration is not feasible at the Site due to the presence of seasonal shallow perched groundwater that we observed and encountered in our explorations. The potential for perching of the stormwater, mounding of the shallow groundwater, and horizontal migration of water at the Site is high.

- Due to shallow perched groundwater at the Site, we recommend perimeter foundation drains and an underslab drainage system for the warehouse building slab-on-grade.
- Site earthwork can generally be completed with conventional earthwork equipment such as bulldozers, graders, excavators, and backhoes.

This Executive Summary should only be used in the context of the full report.

1 Introduction

Aspect Consulting, a Geosyntec Company (Aspect) completed a geotechnical engineering study to support design and construction of a new warehouse distribution center designated as "Project Peninsula" (Project). The Project is being led by AMS 2024 – Port Angeles WA, LLC.

The Project site is located on Clallam County Parcel No. 073012120075, northwest of the intersection between West Edgewood Drive and South Critchfield Road in Port Angeles, Washington (Site; Figures 1 and 2).

Our geotechnical engineering study consisted of a review of existing geological and geotechnical conditions, field investigations, and engineering analyses to develop the conclusions and recommendations presented in this report.

1.1 Project Description

We understand the Project consists of design and construction of a warehouse distribution center with the following major elements listed below and shown on Figure 2.

- Warehouse Building: 58,996 square-foot (approximate) warehouse building supported by shallow foundations and slab-on-grade in the center of the Site.
- Covered Canopy: Canopy structure supported by shallow foundations covering a paved area south of the warehouse building.
- Pavements: Asphalt and concrete slab parking, access roads, and loading dock areas for light- and heavy-duty vehicle and truck traffic over the southern two-thirds of the Site.
- On-Site Stormwater Facilities: Potential expansion of an existing stormwater facility in the northeast corner of the Site.
- Retaining Walls: Cast-in-place retaining walls up to 4 feet in height at the loading dock area along the western edge of the warehouse building.
- Utilities: Buried utilities backfilled with bedding material and structural fill below building and pavement areas.
- Grading: Grading of the gently sloping Site may include slightly raising grade by a few feet below the building footprint and otherwise minor cuts and fills to create relatively flat areas for the parking lots, access routes, and loading areas.

We understand Project design will be completed following these codes:

- Project structures will be designed in accordance with the 2021 International Building Code (IBC; ICC, 2021).
- On-Site stormwater best management practices (BMPs) will be designed in accordance with the *2019 Stormwater Management Manual for Western Washington* (SWMMWW; Ecology, 2019).

- Pavement sections will be designed in accordance with American Association of State Highway and Transportation Officials (AASHTO) *Guide for Design of Pavement Structures* (AASHTO, 1993).

1.2 Scope of Work

Aspect's scope of work included completion of tasks and development of geotechnical engineering recommendations detailed in this report and summarized below.

- Review of existing Site conditions such as mapped geology, topography, geologic hazards, and previous Site use and grading activity.
- Field investigations consisting of Site reconnaissance, test pits, soil borings, optional monitoring well installations, and soil laboratory testing of collected soil samples.
- Assessment of geologic hazards at the Site and development of applicable design recommendations.
- Assessment and delineation of soil and groundwater conditions.
- Development of seismic design parameters in accordance with the 2021 IBC (ICC, 2021) and considerations for potential seismic hazards, including liquefaction and fault rupture.
- Development of shallow foundation and slab-on-grade geotechnical parameters for the proposed warehouse building and covered canopy structures.
- Assessment of on-Site stormwater infiltration feasibility.
- Development of geotechnical design parameters for
    - cast-in-place retaining walls;
    - pavement sections for asphalt and concrete light- and heavy-duty traffic parking lots, access roads, and loading docks; and
    - earthwork and wet weather construction for foundation and pavement subgrade preparation, structural fill gradation and compaction, and new utility construction.
- Preparation of this geotechnical engineering report and input to plans and specifications.

2 Site Conditions

Site conditions at the surface and subsurface were inferred and/or observed from our review of available geologically and geotechnical relevant documents and field investigations completed in February 2025.

The Site consists of an approximately 25.55-acre lot bound to the north and east by South Critchfield Road, to the south by West Edgewood Drive, and to the west by Dry Creek. The Site is currently vacant with previously constructed stormwater ponds in the northeast corner of the Site and along the western boundary.

2.1 Geology Setting

Geologic mapping indicates the Site is underlain by Pleistocene-age (approximately 19,000 to 12,000 years before present) Older Alluvium (Qaof), deposited as alluvial. The Site is bounded to the south and west by Late Wisconsonian (Pleistocene-age, approximately 19,000 to 12,000 years before present) Juan de Fuca lobe glacial till (Qgt) (Schasse et al., 2004).

The older alluvial fan deposits consist of gravel, sand, silt, clay and peat, variably sorted; loose; generally bedded and permeable, that was deposited as alluvial fans that grade down into or interfinger with recessional outwash and glaciomarine drift. Deposition of this unit is thought to have ended in most areas once streams incised into the coastal plain in response to relative sea level lowering that accompanied post-glacial crustal rebound.

The Juan de Fuca lobe glacial till consists of unsorted and highly compacted mixture of clay, silt, sand, gravel, and boulders deposited directly by glacier ice. The unit may be gray where fresh and light yellowish brown where oxidized and generally has very low permeability, especially where lodgement till is well developed (i.e., permeability decreases with depth below ground surface [bgs] in the unit). Clasts in the Juan de Fuca lobe glacial till may be sourced from the Olympic Mountain ranges or from the Canadian Rockies to the north, and are generally more angular than water-worked sediments. Boulders are a common signal that Juan de Fuca lobe glacial till is underfoot and may indicate the deposit has been modified by meltwater.

2.2 Surface Conditions

The Site gently slopes to the north with overall elevation change of about 20 feet. An approximately 5-foot-high berm lines the eastern parcel boundary. Dry Creek runs along the western property boundary and has an approximately 5- to 10-foot-high bank sloping down to the west.

The Site is vegetated with grass, brush, and young evergreen trees, with a stand of alders lining the western property boundary along Dry Creek. There is aa gravel drive around the perimeter of the Site, with one access point running east from South Critchfield Road and one running north from West Edgewood Drive (Photograph 1). The roadways are generally raised in elevation above the vegetated areas of the Site.

We observed areas of frozen standing water about 1 foot deep in the central portion of the Site and in the open-channel drainage ditches along in the northeast corner of the property.

An existing stormwater pond is present on the west side of the Site, and another pond and underground stormwater retention system with associated catch basins and piping is located in the northeast corner of the Site (Photograph 2).

Photograph 1. *Unpaved access road around the perimeter of the Site and grass vegetation in the central portion of the Site, view to the south.*

Photograph 2. *Existing stormwater pond in the northeast portion of the Site, view to the north.*

2.3 Subsurface Conditions

Our characterization of subsurface conditions at the Site is based on our review of geologic maps and completed field explorations described in the following sections.

2.3.1 Field Investigations

Our field investigations consisted of a Site reconnaissance, a single day of test pit explorations, and drilled soil borings over the course of 2 days. Our investigations were completed between February 12 and February 14, 2025. Soil samples from each subsurface exploration were collected and assigned for geotechnical laboratory testing.

Summaries of exploration procedures and descriptions of the soils encountered are presented in Appendix A , as well as the depths where characteristics of the soils changed[1] and soil sample collection depths. Definitions of the terminology and symbols used on the logs are shown on the Exploration Log Key.

Drilled Soil Borings

Five soil borings, designated AB-01 through AB-05, were completed to depths of 35.5 to 41 feet bgs at the locations shown on Figure 2. The borings were completed using mud rotary drilling methods (Photograph 3) with soil samples collected via Standard

[1] The stratigraphic contacts shown on the summary logs represents the approximate boundaries between soil types; actual transitions may be more gradual.

Penetration Test (SPT)[2]. Boring AB-03 was completed as a monitoring well, and a pressure transducer was deployed to measure groundwater on an hourly basis. The transducer has not been downloaded prior to the issuance of this report. For further specifications about mud rotary drilling methods, see Appendix A.1.

Excavated Test Pits

Ten test pit explorations, designated ATP-01 through ATP-10, were completed to depths of 7 to 11 feet bgs at the locations shown on Figure 2. The test pits were excavated using a mid-size, tracked excavator with a toothed bucket (Photograph 4). Soil samples were collected from the bucket or excavated and stockpiled by hand. For more specifications about the test pit explorations procedures, see Appendix A.2.

Photograph 3. *Mud rotary drilling of soil boring/well AB-03. Looking north*

Photograph 4. *Excavation of test pit ATP-09, looking north.*

Geotechnical Laboratory Testing

Laboratory tests were conducted on selected soil samples to characterize or correlate engineering properties/parameters of the soils. Testing included determination of moisture content, grain-size distribution, Atterberg limits, moisture-density relationships (Proctor), and California bearing ratio (CBR). The laboratory tests were conducted in general accordance with appropriate ASTM International (ASTM) test methods. Detailed descriptions of the tests and results are presented in Appendix B, and the results were incorporated into the exploration logs in Appendix A.

2.3.2 Stratigraphy

The primary soil units observed at the Site, presented in order from shallowest to deepest, were topsoil and organic debris soil cover, fine-grained alluvial deposits, coarse-grained alluvial deposits, and glacial till. These units are described below and on the exploration logs in Appendix A.

[2] SPT blow count refers to standard penetration test (SPT) in accordance with ASTM D1586.

Topsoil

We encountered topsoil in all explorations, with depths ranging from 1 and 1.5 feet bgs. The topsoil consisted of moist to very moist, dark brown silt with sand (ML) with small roots, wood fragments and organics.

Fine-Grained Alluvial Deposits

We encountered fine-grained alluvial deposits underlying the topsoil in all five borings to depths extending 10 to 20 feet bgs. These deposits consisted of very soft to medium stiff, moist to wet, brown, layers of clay (CL), clay with sand (CL), sand with clay (SP-CL), silt with sand (ML), sandy silt (ML) and silty sand (SM) (Photograph 5). This material ranges from non-plastic to medium plasticity. The N-values ranged from 1 to 26 blows per foot (bpf), indicating the fine-grained deposits are typically very soft to very stiff. N-values are described in Appendix A.

In test pits ATP-01, ATP-03, and ATP-06, we encountered fine-grained alluvial deposits from below topsoil to the bottom of explorations between 7 and 11 feet bgs (Photograph 5). In ATP-02, ATP-05, ATP-07, ATP-08, and ATP-10, the fine-grained alluvial deposits extended to depths ranging between 4 and 10 feet bgs and were underlain by coarse-grained alluvial deposits. Test pits ATP-04 and ATP-09 contained 2-foot-thick sections of interbedded coarse-grained alluvial deposits from 4 to 6 feet bgs and 5 to 7 feet bgs, respectively.

The upper portion of the fine-grained alluvial deposits contained varying amounts of organics, wood debris and roots up to 3 inches in diameter, and iron-oxide staining.

Based on soil type and relative density, we expect the fine-grained alluvial deposits to exhibit low shear strength, high compressibility, high moisture sensitivity, and relatively low permeability.

Coarse-Grained Alluvial Deposits

We encountered coarse-grained alluvial deposits in all borings, underlying the fine-grained alluvial deposits and underlain by glacial till. The deposits consisted of loose to very dense, moist to wet, brown to gray brown interbeds of sandy silt with gravel (ML), silty sand with gravel (SM), silt with sand and gravel (SP-SM), sand with gravel (SP), silty gravel with sand (GM) and gravel with silt and sand (GP-GM). The N-values ranged from 8 to greater than 50 bpf, indicating loose to very dense. Several of the greater than 50 bpf density readings were considered elevated due to the size of the gravels being larger than the sampler diameter.

The coarse-grained alluvial deposits exhibit high shear strength, low compressibility characteristics, low to moderate moisture sensitivity, and high permeability.

Glacial Till

Glacial till (Qgt) was encountered in all five borings underlying the coarse-grained alluvial deposits to the bottom of exploration in our soil borings AB-01 through AB-05. The glacial till consisted of very dense, blue gray, silty sand with subangular to subrounded, faceted gravel (SM).

The SPT blow counts in the glacial till ranged from 45 to greater than 50 bpf, indicating dense to very dense. The glacial till exhibits high shear strength and low compressibility characteristics, and is relatively impermeable.

2.3.3 Groundwater

We inferred groundwater elevations during mud rotary drilling in borings AB-04 and AB-05 at 10 feet and 20 feet bgs, respectively, due to the presence of saturated soils in the sampler. Although we did not observe evidence of groundwater in AB-01 and AB-02 due to the mud rotary drilling techniques, it is likely present at elevations similar to those encountered throughout the Site. A static groundwater level of 0.5 feet bgs was measured in monitoring well AB-03/AMW-01. A water level transducer was installed in AMW-01 at 14.5 feet bgs and collected water level measurements twice daily. We calibrated the water level data with barometric readings from the nearby Fairchild Airport, located 1 mile from the Site. The data suggests that the water level generally ranges from 0 to 1 feet bgs (Appendix C).

Elsewhere at the Site, we encountered groundwater in all 10 test pits (Photographs 5 and 6). Groundwater seeps were encountered at depths ranging from 1 to 7 feet bgs emanating from gravel strata within the fine-grained alluvial deposits. Static groundwater was encountered in all test pits between 7 and 8 feet bgs.

Photograph 5. *Fine-grained alluvial deposits in ATP-03.*

Photograph 6 *Static groundwater in ATP-05 at approximately 8 feet bgs.*

3 Geotechnical Engineering Recommendations and Conclusions

Based on our review of existing Site conditions, field investigations, and engineering analyses, we conclude the Project is feasible from a geotechnical engineering perspective provided the recommendations in this report are incorporated into design and construction. Our geotechnical engineering recommendations and conclusions are discussed in the following section.

3.1 Geologic Hazard Assessment

We reviewed various available Light Detection and Ranging (LiDAR) maps, historical imagery, and the Washington Geologic Information Portal (WGIP; DNR, 2024) to assess the risk and likelihood of geologic hazards such as landslides, erosional hazards, and mass wasting processes at the Site.

We did not observe indications of geologic hazards at the Site, such as steep slopes or ancient landslides, and we conclude that there is an acceptable and very low level of risk of these geologic hazards to the Project.

Based on the Project plans, there is an acceptable and very low level of risk that erosional hazards will negatively affect the Project and vice versa because the Site soils will be covered with structures, pavements, landscaping. Temporary erosion and sedimentation control (TESC) best management practices (BMPs) will be in effect during construction and will include controlling surficial stormwater towards drainage elements.

3.2 Seismic Hazards and Design Parameters

Seismic design of the Project will be in accordance with the 2021 International Building Code (IBC) which references the American Society of Civil Engineers (ASCE) Standard ASCE/SEI 7-16, *Minimum Design Loads for Buildings and Other Structures* (ASCE, 2018) for seismic design. Supplements 1, 2, and 3 to ASCE/SEI 7-16 (ASCE, 2018, 2021a, 2021b) should be referenced where applicable per Washington State Building Code Council Emergency Rule WSR 22-11-010 (WSR 22-11-010; WA Building Code, 2022). In accordance with these codes, the seismic design will consider a "Maximum Considered Earthquake" (MCE) ground motion with a 2 percent probability of exceedance in 50 years, or a return period of 2,475 years.

The effects of Site-specific subsurface conditions on the MCE ground motion at the ground surface are determined based on the "Site Class." The Site Class can be correlated to the average standard penetration resistance (N-value), average shear wave velocity, or average undrained strength (for fine-grained soils) in the upper 100 feet of the soil profile (Vs_{100}). Based on the average N-value from our explorations, we conclude the Site soil profile can be classified as Site Class D (Stiff Soil).

The spectral response acceleration parameters adjusted for Site Class D in accordance with the 2021 IBC and ASCE/SEI 7-16 and its supplements are presented in Table 1 for the MCE. These parameters are only valid if the exceptions outlined in Section 11.4.8 of Supplement 3 of ASCE/SEI 7-16 are met. If the exceptions are not met, then a ground

motion hazard analysis in accordance with Section 21.2 of ASCE/SEI 7-16 is necessary. If the need for a ground motion hazard analysis becomes apparent as the Project design develops, Aspect can complete this upon request. Alternatively, per WSR 22-11-010 a multi-period response spectra (MPRS) approach as described in ASCE/SEI Standard 7-22 may be used in lieu of a ground motion hazard analysis (ASCE, 2021c).

Table 1. Seismic Design Parameters

Design Parameter	Recommended Value
Site Class	D – Stiff Soil
Peak Ground Acceleration (PGA)	0.73g(1)
Short Period Spectral Acceleration (S_s)	1.64g
1-Second Period Spectral Acceleration (S_1)	0.64g
Site Coefficient (F_a)	1.00
Site Coefficient (F_v)	1.70(2)
Site Coefficient, (F_{PGA})	1.10
Design Short Period Spectral Acceleration (S_{DS})	1.09g
Design 1-Second Period Spectral Acceleration (S_{D1})	0.73g
Site Adjusted Peak Ground Acceleration, PGA_M	0.80g
Magnitude (Mw)	9.12

Notes:

1. g = gravitational force.
2. F_V is for calculating T_S, determining Seismic Design Category, linear interpolation of intermediate values of S_1, and using the exceptions under Items 1 and 2 of Section 11.4.8 (ASCE/SEI 7-16).
3. Based on the latitude and longitude of the Site: 48.113747°N, 123.513318°W, North American Vertical Datum (NAVD 88); The risk category used was II; Based on the ASCE online hazard tool (ASCE, 2023).

3.2.1 Liquefaction

Liquefaction occurs when loose, saturated, and relatively cohesionless soil deposits temporarily lose strength from seismic shaking. The primary factors controlling the onset of liquefaction include intensity and duration of strong ground motion, characteristics of subsurface soil, in situ stress conditions, and the depth to groundwater. Potential effects of soil liquefaction include temporary loss of shallow foundation bearing capacity, loss of deep foundation axial and lateral capacity, vertical ground settlement, and lateral ground movement towards riverbanks or slopes.

The Washington Department of Natural Resources (DNR) maps the Site as having low susceptibility of liquefaction (Palmer et al., 2004).

We conducted liquefaction analyses based on the MCE design ground motions with the aid of WSliq, a liquefaction analysis software program that was created as part of an extended research project supported by the Washington State Department of Transportation (WSDOT) and authored by Kramer (2008). Liquefaction requires soil saturation, and for the purposes of our analyses we assumed a groundwater level at 1 foot bgs that is consistent with our observations of soil moisture, groundwater monitoring, and shallow groundwater seepage in our explorations. Liquefaction analyses were completed based on the specific subsurface data collected at the Site.

In general, the results of our liquefaction analyses indicate the non-plastic and low-plasticity zones of the fine-grained alluvial deposits and medium dense zones of the coarse-grained alluvial deposits are potentially liquefiable during the MCE. Based on our explorations and analyses, these zones are scattered and discontinuous across the Site and will not impact the proposed building by way of reduced bearing capacity or significant seismic settlement. We calculate between 0 and 1 inch of seismically induced settlement will occur at the Site during/following the MCE.

3.2.2 Fault Rupture

The Lake Creek-Boundary Creek fault zone is located approximately 6 miles south of the Site. The Lake Creek-Boundary Creek fault zone is one of three east-west-trending, north-dipping fault zones along the north flank of the Olympic Mountains. This fault zone produces shallow or crustal earthquakes, which tend to be more damaging than deep quakes of comparable magnitude. Radiocarbon age dating suggest two earthquakes between 600 and 2,000 years ago have occurred. A magnitude 6.8 earthquake scenario for the fault boundary has been assessed with significant losses within Clallam, Jefferson, King, Kitsap, Mason, Skagit, and Snohomish Counties. (Lidke et al., 2016)

The WGIP also identifies an unnamed shallow thrust fault with a fault trace ending approximately 1.5 miles east of the Site.

Due to the suspected long recurrence interval and the proximity of the Site to the mapped faults, the potential for surficial ground rupture at the Site is considered low during the expected life of the Project.

3.3 Compressible Soils

The soft, fine-grained alluvial deposits that mantle the Site are compressible when subjected to new or increased surcharge loads from building foundations, traffic loading, embankments, or other infrastructure. Calculation of soil compressibility and total soil settlement is divided into three components: immediate settlement, consolidation settlement, and secondary compression. Each of these are summarized below.

- Immediate settlement is primarily elastic and occurs rapidly, typically during the construction process, in both nonplastic fine-grained and coarse-grained soils.
- Consolidation settlement is a time-dependent process that occurs in saturated, fine-grained soils as excess porewater pressures dissipate after a load is placed on the soil. The magnitude of consolidation settlement depends on the compressibility and in situ stress state of the soil deposit, the magnitude of the applied load, and the soil

deposit's stress history. The rate of consolidation settlement depends on the permeability of the soil deposit and can range from days to years.

- Secondary compression is a time-dependent process that occurs after excess porewater pressures dissipate through consolidation settlement over long periods of time that range from years to decades. Secondary compression is also commonly referred to as 'creep.'

3.4 Foundation Design and Construction

Due to the presence of shallow compressible soil, shallow perched groundwater, and discontinuous zones of potentially liquefiable soil at the Site, we recommend that the proposed building be supported using one of two alternatives:

- Conventional shallow foundations (spread and strip footings) overlying improved ground.
- Deep foundations consisting of small-diameter driven steel pipe piles.

Removal and replacement of the compressible and potentially liquefiable soil will require excavations on the order of 10 to 15 feet deep, management of significant shallow groundwater, and the import of significant amounts of structural fill from off-Site. In our opinion, this is not feasible or economical.

3.4.1 Ground Improvement – Rammed Aggregate Piers

Ground improvement consists of modifying weak or marginal in situ soils to create a stiffer soil mass with improved engineering characteristics—specifically, higher bearing capacity, lower compressibility, and decreased resistance to liquefaction. Ground improvement is typically achieved through densification and/or replacement of a portion of the in situ soils with stiffer materials. Based on our investigation and analyses, rammed aggregate piers (RAPs) are suitable for ground improvement at the Site.

RAPs consist of columns of compacted angular crushed rock installed within a soil mass. The RAPs are typically 20 to 30 inches in diameter and can be installed by drilled shaft excavation methods or by using displacement methods. The displacement method uses a vibrating mandrel/tamper head that advances through the in situ soil profile to create a shaft extending vertically to the desired depth. The displacement and/or vibration densifies and improves the surrounding soil. Once the desired shaft depth is reached, the mandrel/tamper head is retracted as crushed rock is injected and compacted in lifts.

When the RAPs are installed below foundations, their high stiffness relative to the surrounding soil attract more of the applied foundation loads, thereby reducing the load imposed on the surrounding compressible soil and resulting in increased bearing capacity and reduced settlement. When used to mitigate liquefaction, installation of the RAP elements densifies the surrounding soil and increases its resistance to liquefaction triggering. The RAP elements also serve as drains to aid in the dissipation of excess pore pressures that develop during earthquake shaking.

When RAPs are used to control foundation settlement, they are installed directly beneath the foundations and typically do not extend beyond the edges. When RAPs are used to

mitigate liquefaction, they are typically installed in a tightly spaced grid pattern that extend outside of foundation areas (such as floor slabs) where liquefiable soils are present.

The design of RAPs is typically done by a specialty contractor. Our recommended design parameters are included below in Table 2. The number and geometry of the RAPs should equal at least 30 percent of the area of individual footings. Due to the very soft soil conditions present at shallow depths (in the upper 5 to 7 feet of the Site), design calculations should consider RAP bulging and include provisions for partial grouting or other mitigation techniques, if needed.

Table 2. Rammed Aggregate Pier Design Parameters

Design Parameter	Value
Allowable Bearing Pressure[1]	5,000 psf
Minimum Diameter	20 inches
Minimum Embedment Depth[2]	15 feet
Anticipated Total Settlement	Less than 1 inch
Anticipated Differential Settlement	Less than ½ inch

Notes: 1. A one-third increase should be accounted for during transient (wind or seismic) loading.
2. Below the existing site grades.

3.4.2 Footings Supported by Rammed Aggregate Piers

Spread or strip footings supported by RAPs can be designed using a maximum allowable net bearing pressure of 5,000 pounds per square foot (psf). Maximum allowable bearing pressure may be increased by one-third (i.e., to 6,667 psf) for short-term transient loading conditions such as wind and seismic loading.

Based on preliminary square spread footing sizes of up to 10 feet wide by 10 feet long, and continuous strip footings up to 4.5 feet wide, we estimate foundations designed for 5,000 psf bearing pressure supported by RAPs will on average experience total elastic compression settlements of less than about 1 inch. Differential settlement between adjacent foundation elements and/or over a distance of about 50 feet along continuous strip footings may be estimated to be up to half of the total settlement. We anticipate the majority of elastic settlement will occur as loads are applied to the foundations during construction.

Lateral Support

Lateral forces can be resisted by passive soil resistance against the side of the foundations and frictional resistance along the base of the foundations.

The ultimate passive soil resistance (expressed as an equivalent fluid density) can be taken as 400 pounds per cubic foot (pcf) for foundations bearing against Site soils. We recommend including a factor of safety equal to 1.5 to calculate allowable passive

resistance (i.e., 267 pcf). The upper 1 foot of passive resistance should be neglected for design unless it is protected by pavement or slab-on-grade.

For frictional resistance, an ultimate coefficient of friction of 0.55 may be taken for cast-in-place concrete poured on prepared subgrade soils and RAPs. We recommend including a factor of safety of 1.5 to calculate allowable frictional resistance (i.e., 0.36).

3.4.3 Driven Pile Foundations

As an alternative to RAPs and ground improvement, small-diameter pile foundations may be used for the proposed building foundations. We recommend steel pipe "pin" piles or for the application of pile foundations at the Site. Other types of pile foundations are feasible for the Site and Project.

Normal pin piles typically consist of 2- to 8-inch-diameter steel pipe piles driven to refusal using a pneumatic or hydraulic hammer. Refusal criteria varies by the diameter of the pin pile but is typically defined as less than 1 inch of penetration into the ground during a specified time period of continuous driving with the specified hammer. Specific refusal and load capacity information is shown below in Table 3.

Table 3. Typical Pin Pile Capacities and Refusal Criteria

Pin Pile Diameter (in)	Hammer Weight[1] (lbs)	Ultimate Capacity (kips)	Refusal Criteria[2] (s)[3]
2	90	12	60
3	550	24	12
4	850	40	16
6	2,000	60	10
8	3,000	90	10

Notes: 1. Minimum hammer weight recommended
2. Time to drive pile less than 1 inch during continuous driving
3. (s) = second

If a larger hammer than what is indicated in Table 3 is used to drive the piles, an alternate refusal criteria (different from above) may be needed. Pin piles greater than 2 inches in diameter should be load tested in general accordance with the Quick Load Test Method described in ASTM D-1143-81 (ASTM, 2023).

To achieve reliable compressive axial capacity, we recommend embedding the pin piles a minimum of 5 feet into the dense coarse-grained alluvial deposits, or approximately 20 feet bgs. We recommend using a minimum factor of safety of 2 for design of pin pile-supported foundations and load testing a minimum of 1 pile or 2 percent of the total number of production piles, whichever is greater. The Quick Load Test Method may also be used to calibrate alternate driving refusal criteria.

Pin piles should be used for compressive support only. Piles may be battered up to about 15 degrees to provide additional lateral support.

3.5 Concrete Slab-on-Grade Support

Building and covered canopy slab-on-grade subgrade preparation should include the construction of an aggregate pad to a minimum depth of 24 inches below the base of the slab.

For interior slabs-on-grade, we recommend the uppermost 6 inches of the aggregate pad consist of compacted capillary break material (in lieu of 6 inches of crushed rock) to provide uniform support and moisture control. The capillary break material should consist of free-draining, clean, fine gravel and coarse sand with a maximum particle size of about 1 inch and less than 3 percent material passing the U.S. No. 200 sieve by weight (fines). Angular material manufactured by crushing is preferred over rounded material, such as bank run sand and gravel, to provide a subgrade surface that is not easily disturbed by workers laying steel rebar and concrete formwork. The capillary break material should be compacted to relatively firm and unyielding condition and evaluated by Aspect prior to placement of steel rebar and formwork.

Due to the shallow, perched groundwater conditions at the Site, we recommend an underslab drainage system. Recommendations for underslab drainage are provided in Section 3.7.2.

For building areas where moisture intrusion would be detrimental to the finished interior space (such as air-conditioned office areas that may be covered with flooring), consideration should be given to placement of a moisture protection barrier over the capillary break.

Detailed design and performance issues with respect to moisture intrusion control as it relates to the interior environment of the structure are beyond the expertise of Aspect. Moisture protection barriers are specifically for moisture control and should not be confused with vapor barriers required for other gas/vapor mitigation (such as radon). An environmental engineer and building envelope specialist or contractor should be consulted to address these issues, as needed.

For slabs-on-grade designed as a beam on elastic subgrade, we recommend using an initial vertical modulus (Kv_1) of 100 pounds per cubic inch (pci) if bearing on the 24-inch-thick aggregate pad described above. The Kv1 value is appropriate for a 1-foot by 1-foot slab and needs to be adjusted based on the actual width (B) of the slab to a design vertical modulus (Ks) using the following equation:

$$K_s = K_{v1}(B+1)^2/(4B^2),$$

where B = slab width (in feet).

If more support is required for slabs or to support unique loading patterns, areas of the slab-on-grade can include RAPs.

3.6 Retaining Walls

It is our understanding that the Project will include the construction of retaining walls up to 4 feet tall at/near the loading dock area to the west of the warehouse building (Figure 2).

Recommended lateral earth pressures for the design of these walls are presented in Table 4. The earth pressures provided assume structural fill material described in Section 4.4 will be used as backfill, and that proper drainage will be installed to prevent the buildup of unbalanced hydrostatic pressures.

Table 4. Lateral Earth Pressure Parameters

Earth Pressure Condition	Earth Pressure Coefficient	Equivalent Fluid Weight (pcf)[1,3]	Surcharge Pressure (psf)[1,3]
Active[2]	0.28	35	0.28*S[4]
At-Rest	0.44	55	0.44*S[4]
Passive[5]	3.60	267	NA

Notes:
1. psf = pounds per square foot; pcf = pounds per cubic foot.
2. To invoke active earth pressure conditions, the wall must be capable of yielding laterally at least 0.001 to 0.002H (where H is the exposed height of the wall); otherwise, at-rest earth pressure condition shall be assumed.
3. The equivalent fluid densities provided above are distributed triangularly along the exposed height of the wall. The uniform lateral surcharge is distributed uniformly (rectangularly) along the exposed height of the wall.
4. S is the surcharge pressure at the ground surface immediately above/behind the wall with level backfill/backslope. If surcharge pressures are not immediately above/behind the wall or backfill is sloped, Aspect should be consulted to evaluate/revise surcharge pressure recommendations working in tandem with the Project structural engineer.
5. Allowable passive pressures are presented; a factor of safety of 1.5 has been applied for design. Passive pressure contribution should be ignored within 1 foot of the ground surface unless the surface is protected by pavement or concrete slab.

For vertical support of retaining wall footings, we recommend the foundation options described in Section 3.4 and our recommendations for frictional sliding resistance of the proposed retaining walls are described in Section 3.4.2.

3.7 Drainage

3.7.1 Wall and Footing Drainage

Drainage behind cast-in-place walls should consist of a 12-inch-thick zone of free-draining sand and gravel meeting WSDOT *Standard Specifications for Road, Bridge, and Municipal Construction* 9-03.12(2) (Standard Specifications; WSDOT, 2024) for Gravel Backfill for Walls requirements. Water that is carried down by this sand and gravel zone should be conveyed to the footing drains (discussed below).

The outside edge of all perimeter footings should be provided with a drainage system consisting of an appropriately sized, perforated Schedule 40 polyvinyl chloride (PVC) pipe surrounded by at least 6 inches of washed gravel meeting WSDOT Standard Specification 9-03.12(4) for Gravel Backfill for Drains requirements. The drainage pipes should include cleanouts for periodic maintenance and inspection.

Final grades around the warehouse building should be sloped such that surface water drains away from the structure. Soil cover over the foundation drains should consist of at least 12 inches of low permeability soil to reduce the potential for surface water to enter the foundation drains. Downspouts and roof drains should not be connected to the

foundation drains to reduce the potential for flooding and clogging of the foundation drains.

3.7.2 Underslab Drainage

We recommend underslab drainage to collect water that could potentially perch on top of or within the fine-grained alluvial deposits below the building. The underslab drainage should consist of an interior perimeter drain and a series of cross drains placed on about 40-foot centers. The drains should consist of 4-inch-diameter perforated Schedule 40 PVC pipes surrounded by washed gravel meeting WSDOT Standard Specification 9-03.12(4) for Gravel Backfill for Drains requirements (WSDOT, 2024). The drainage pipe inverts should be at least 12 inches below the finished floor elevation. We recommend supplementing the underslab drainage with a vapor barrier beneath the slab. The vapor barrier should be installed in accordance with the manufacturer's recommendations.

As an alternative to underslab drainage and a vapor barrier, a waterproofing system can be used below slabs to control moisture intrusion. A waterproofing expert/specialist should be consulted to evaluate a suitable waterproofing system.

3.8 Pavements

The near-surface soil types at the Site are typically very soft, fine-grained, and susceptible to deformation, pumping, and rutting when supporting overlying conventional pavements. In our opinion, pavement design for the Project should consider thicker aggregate support sections, cement-treatment, and/or the use of geotextile reinforcement to mitigate the poor pavement subgrade conditions and improve the long-term performance of the Site pavements.

Flexible hot mix asphalt (HMA) and rigid concrete pavements should be designed for both "light-duty" and "heavy-duty" traffic loading and based on the anticipate subgrade conditions (new engineered fill or existing soils) that can be further understood upon advancement of the Project grading plan.

Traffic loading (expressed as number of cars, box trucks, and semi-truck trips per day) were provided to Aspect by the design team. Using these and an assumed traffic growth and annual growth of 1 percent and 15-year design life (per design team guidance) we calculated approximately 70,000 Equivalent Single Axle Loads (ESALs) for light traffic areas, and 172,000 for heavy-duty traffic areas. We then completed flexible and rigid pavement analysis using AASHTO methods (AASHTO, 1993) to determine minimum design sections. The recommended pavement sections presented in Tables 5 and 6 below are slightly thicker than the calculated minimum design sections and are based on observed good performance of pavement sections for similar projects with similar subgrade materials.

We recommend the pavement sections use geosynthetic reinforcement at the interface between the recommended CSBC and the underlying subgrade that consists of Mirafi RS380i, or equivalent.

Table 5. Recommended HMA Pavement Sections

Traffic Loading	HMA Thickness (in)	Crushed Surfacing Thickness (in)
Light Duty	3	8
Heavy Duty	4	10

Table 6. Recommended Rigid Pavement Sections

Traffic Loading	Concrete Thickness (in)	Crushed Surfacing Thickness (in)
Light Duty	5	4
Heavy Duty	6	6

3.8.1 Cement-Treated Pavement Subgrade

Cement treatment of the Site subgrade soil can improve the performance of pavement systems long-term, reduce the design pavement section thicknesses, and offer constructability advantages when working over shallow groundwater and wet soil conditions. Cement treatment involves mixing soils (either imported aggregate material or in-situ soil) with cement and water to create a soil-cement mixture with increased strength and stiffness. Cement treatment is most commonly used in pavement applications where otherwise poor pavement performance (i.e., rutting, fatigue cracking, potholing) would be expected such as pavements over the soft and wet fine-grained alluvial deposits at the Site.

Cement treatment should include scarification of the subgrade to a depth of 9 to 12 inches, mixing of at least 5 percent of Portland cement (by dry weight), and then re-compacting the subgrade to at least 95 percent of the maximum dry density (MDD) as determined by ASTM D1557 (modified proctor). Provided the cement-treated subgrade can achieve a minimum 7-day unconfined compressive strength of 100 pounds per square inch (psi), the pavement sections shown in Tables 7 and 8 can be used in design.

Table 7. Recommended HMA Pavement Sections over Cement Treatment

Traffic Loading	HMA Thickness (in)	Crushed Surfacing Thickness (in)	Cement Treatment Depth (in)
Light Duty	3	4	9
Heavy Duty	3.5	4	12

Table 8. Recommended Rigid Pavement Sections over Cement Treatment

Traffic Loading	Concrete Thickness (in)	Crushed Surfacing Total Thickness (in)	Cement Treatment Depth (in)
Light Duty	4	4	9
Heavy Duty	6	4	12

3.9 Stormwater Infiltration Feasibility

Across the Site, we observed and encountered shallow, perched groundwater within the fine-grained alluvial deposits at depths approaching the ground surface. The fine-grained alluvial deposits also exhibit low permeability characteristics and, in our opinion, the potential for perching of infiltrated stormwater within the fine-grained alluvial deposits or mounding of groundwater and horizontal migration of water is high. Based on the results of our field investigation, we conclude that concentrated stormwater infiltration is infeasible at the Site.

4 Earthwork and Construction Recommendations

This section outlines our recommendations for handling soils at the Site during Project construction. We expect that earthwork activities can be accomplished with standard construction equipment. The earthwork contractor should be prepared to encounter shallow groundwater conditions and moisture sensitive soils

4.1 Wet Weather Considerations

The majority of the Site soils will be moisture sensitive and may be difficult to handle, prepare, or compact with construction equipment during periods of wet weather due to their high fines (silt and clay) content. Earthwork is typically most economical when performed under dry weather conditions. If earthwork is to be performed or fill is to be placed in wet weather or under wet conditions, we provide the following recommendations:

- Earthwork should be performed in small areas to minimize exposure to wet weather. The size and type of construction equipment used may have to be limited to prevent soil disturbance.
- Excavations for foundations, slab, and pavement should be covered or protected (with concrete or crushed rock) following approval of the subgrade by Aspect and should not be left open and exposed.
- The ground surface within the construction area should be sealed by a smooth drum vibratory roller (or equivalent) and under no circumstances should be left uncompacted and exposed to moisture. Soils which become too wet for compaction should be removed and replaced with clean granular materials.
- Excavation and placement of fill should be observed by Aspect to verify that all unsuitable materials are removed, and suitable compaction is achieved.
- Local BMPs for erosion control should be strictly followed.

4.2 Temporary Excavation Slopes

Temporary excavation and slopes should not exceed the limits specified in the local, state, and federal regulations. The stability of temporary excavations and slopes shall be the responsibility of the contractor. For planning purposes, the fine-grained alluvial deposits that mantle the Site classifies as Type C soil in accordance with the Washington Administrative Code (WAC) 296-155 Part N (WAC, 2023) and is anticipated to stand as steep as 1.5H:1V (horizontal:vertical). The presence of seepage may require that temporary excavation slopes be flattened to remain stable.

We also recommend the following for temporary excavations and slopes:

- Surface water should be diverted away from slopes.
- Slopes should be protected using plastic sheeting, flash coating, or tarps to control erosion and maintain stability, as necessary.

- The duration that excavations or slopes are open should be minimized.
- Traffic, equipment, and material stockpiles should not be allowed near the top of excavations or slopes.
- The conditions of the excavations and slopes should be periodically observed by a competent person who is a representative of the contractor to evaluate safety and stability.

4.3 Subgrade Preparation

4.3.1 Foundations and Slabs-on-Grade

Foundation and slab-on-grade subgrades and ground improvement construction should be observed and evaluated by Aspect prior to placing structural fill, aggregate pads, and capillary breaks to verify they have been prepared in conformance with our recommendations in Sections 3.4 and 3.5. We should also observe structural fill below foundations after it has been placed and prior to placing steel rebar and pouring concrete. In areas receiving more than 1 foot of structural fill below footings and/or slabs, we recommend the compaction of the structural fill be tested and verified using nuclear density testing methods in accordance with ASTM D 6938.

4.3.2 Pavements

HMA and concrete pavement subgrades should be observed and evaluated by Aspect prior to placement of the crushed surface base course (CSBC) to verify they have been prepared in conformance with our recommendations. Where cement treatment is used, the subgrade should be scarified to the specified depth and Portland cement should be applied evenly and uniformly using an adjustable rate distributor of dry cement. Once the cement has been applied, the subgrade should be thoroughly and evenly mixed while injecting any additional water needed to create a homogenous mixture. Immediately after mixing is completed and before the cement begins to hydrate and cure, the stabilized/treated mixture should be compacted to 95 percent of the MDD per ASTM D 1557 (modified proctor) near the optimum moisture content as determined by laboratory testing.

All prepared subgrades should be firm and unyielding under the proof-rolling load of heavy rubber-tired equipment or hand probing and should be clear of any loose or disturbed soil or standing water. Soft or disturbed subgrade areas identified during evaluation should be removed to expose undisturbed soil and replaced with appropriate structural fill material. In areas receiving more than 1 foot of structural fill below pavement subgrade, we recommend the compaction of the structural fill be tested and verified using nuclear density testing methods in accordance with ASTM D 6938.

4.4 Structural Fill

Soils placed beneath or around foundations, slabs-on-grade, pavement, and utilities should be considered structural fill. For these fill areas, we provide the following recommendations:

- Site-derived soil (except for topsoil) may be suitable for reuse as structural fill for certain applications as discussed below.

- Structural fill used to backfill against/around foundations and below pavements (excluding the CSBC layer) that are free of deleterious materials (i.e., wood, garbage, significant organics, etc.) may consist of on-Site soils provided particles larger than about 4 inches are screened out and the material can be compacted as described in this section. Aspect should observe and evaluate stockpiles prior to use. If imported soil is to be used, we recommend granular material meeting the requirements for Gravel Borrow per WSDOT Standard Specification 9-3.14(1) (WSDOT, 2024).
- Structural fill more than 1 foot below foundations and more than 6 inches below slabs-on-grade should consist of imported sand and gravel the requirements for Gravel Borrow per WSDOT Standard Specification 9-3.14(1).
- Structural fill within 1 foot below foundations should consist of CSBC per WSDOT Standard Specification 9-03.9(3)).
- Structural fill within 6 inches below slabs-on-grade should consist of capillary break material as described in Section 3.5.
- Structural fill should only be placed on a relatively firm and unyielding subgrade.
- Structural fill should be compacted to a relatively firm and unyielding condition to a minimum density of 95 percent MDD as determined by ASTMD1557 (ASTM, 2023). Structural fill placed behind walls should be compacted to between 90 to 92 percent MDD to avoid overstressing the walls.
- Structural fill should be placed in lifts with a loose thickness no greater than 12 inches when using relatively large compaction equipment, such as a vibrating plate attached to an excavator (hoe pack) or a vibratory smooth drum roller. If small, hand-operated compaction equipment is used to compact structural fill, lifts should not exceed 6 inches in loose thickness.
- The moisture content of the structural fill should be controlled to within 2 to 3 percent of the optimum moisture. Optimum moisture is the moisture content corresponding to the maximum modified proctor dry density.
- Structural fill material should not be placed if frozen.
- Fill placed in softscape, general grading, landscape, or common areas that are not beneath or around structures, utilities, slabs-on-grade, or below paved areas that can accommodate some settlement should be compacted to a relatively firm and unyielding condition.

4.5 Utility Trenches

Our general recommendations for bedding of utilities and backfill of utility trenches include:

- Materials to be used for utility bedding should meet the requirements for WSDOT Standard Specification 9-03.12(3) for Gravel Backfill for Pipe Zone Bedding or the material specified in the Standard Specification section applicable to the type of pipe being installed (WSDOT, 2024).

- Prior to installation of the pipe, the bedding material should be shaped to fit the lower portion of the pipe exterior with reasonable closeness to provide continuous support along the pipe.
- Bedding placed around the pipe should be placed in layers and tamped around the pipe to obtain complete contact. Pipe bedding material should be used as trench backfill to at least 6 inches above the crown of the pipe, for the full width of the trench. In areas where a trench box is used, the bedding material should be placed before the trench box is advanced.
- Trench backfill should meet the requirements for structural fill as described in Section 4.4. During placement of the initial lifts, the trench backfill material should not be bulldozed into the trench or dropped directly on the pipe. Furthermore, heavy vibratory equipment should not be permitted to operate over the pipe until at least 2 feet of backfill has been placed.

5 Additional Services

Our recommendations for additional geotechnical services are summarized below.

5.1 Continuing Design and Consultation Services

We recommend that Aspect attend design team meetings by telephone/video conference as design progresses, on an as-needed basis as determined by AMS 2024 – Port Angeles, WA, LLC, and that we review geotechnical elements of the Project plans to see that our geotechnical engineering recommendations have been properly interpreted and incorporated into the design.

5.2 Services During Construction

We are available to provide geotechnical engineering and monitoring services during construction. The integrity of the geotechnical elements depends on proper site preparation and construction procedures. In addition, engineering decisions may have to be made in the field in the event that variations in subsurface conditions become apparent.

During the construction phase of the Project, we recommend that Aspect be retained to perform the following tasks:

- Review applicable submittals
- Observe and evaluate subgrade and structural fill placement for all foundations, slabs-on-grade, and pavements
- Attend meetings, as needed
- Address other geotechnical engineering considerations that may arise during construction

The purpose of our observations is to verify compliance with design concepts and recommendations, and to allow design changes or evaluation of appropriate construction methods in the event that subsurface conditions differ from those anticipated prior to the start of construction.

6 References

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Washington State Legislature, 2023, Washington Administrative Code (WAC), February 20, 2023.

7 Limitations

Work for this project was performed for AMS 2024 – Port Angeles, LLC (Client), and this report was prepared consistent with recognized standards of professionals in the same locality and involving similar conditions, at the time the work was performed. No other warranty, expressed or implied, is made by Aspect Consulting (Aspect).

Recommendations presented herein are based on our interpretation of site conditions, geotechnical engineering calculations, and judgment in accordance with our mutually agreed-upon scope of work. Our recommendations are unique and specific to the project, site, and Client. Application of this report for any purpose other than the project should be done only after consultation with Aspect.

Variations may exist between the soil and groundwater conditions reported and those actually underlying the site. The nature and extent of such soil variations may change over time and may not be evident before construction begins. If any soil conditions are encountered at the site that are different from those described in this report, Aspect should be notified immediately to review the applicability of our recommendations.

Risks are inherent with any site involving slopes and no recommendations, geologic analysis, or engineering design can assure slope stability. Our observations, findings, and opinions are a means to identify and reduce the inherent risks to the Client.

It is the Client's responsibility to see that all parties to this project, including the designer, contractor, subcontractors, and agents, are made aware of this report in its entirety. At the time of this report, design plans and construction methods have not been finalized, and the recommendations presented herein are based on preliminary project information. If project developments result in changes from the preliminary project information, Aspect should be contacted to determine if our recommendations contained in this report should be revised and/or expanded upon.

The scope of work does not include services related to construction safety precautions. Site safety is typically the responsibility of the contractor, and our recommendations are not intended to direct the contractor’s site safety methods, techniques, sequences, or procedures. The scope of our work also does not include the assessment of environmental characteristics, particularly those involving potentially hazardous substances in soil or groundwater.

All reports prepared by Aspect for the Client apply only to the services described in the Agreement(s) with the Client. Any use or reuse by any party other than the Client is at the sole risk of that party, and without liability to Aspect. Aspect’s original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

Please refer to Appendix D titled “Report Limitations and Guidelines for Use” for additional information governing the use of this report.

We appreciate the opportunity to perform these services. If you have any questions, please call Andrew Holmson at 971-865-5894.

FIGURES

Site Vicinity Map

Project Peninsula
S. Critchfield Rd and W. Edgewood Dr
Port Angeles, Washington

Aspect CONSULTING	FEB-2025	BY: AJH / KMJ	FIGURE NO. 1
	PROJECT NO. NWG0010	REVISED BY: ---/---	

Data source credits: None || Basemap Service Layer Credits: Esri, CGIAR, USGS, Bureau of Land Management, Esri Canada, Esri, HERE, Garmin, USGS, METI/NASA, NGA, EPA, USDA, WA State Parks GIS, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USFWS, Esri, HERE, Garmin, USGS, EPA, NPS

Explorations

- Test Pit
- Boring
- Boring/Monitoring Well
- Clallam County Tax Parcel

0 60 120 Feet

Subsurface Exploration Map

Project Peninsula
S. Critchfield Rd and W. Edgewood Dr
Port Angeles, Washington

Aspect CONSULTING	FEB-2025	BY: AJH / KMJ	FIGURE NO. 2
	PROJECT NO. NWG0010	REVISED BY: ---/---	

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APPENDIX A

Subsurface Explorations

A. Subsurface Explorations

Aspect's field exploration program consisted of five machine-drilled borings and 10 test pits. Approximate locations for each exploration are shown on Figure 2. Exploration logs of the machine-drilled borings and test pits are included in this appendix.

An Aspect engineer was present throughout the field exploration program to observe and direct the explorations, collect soil samples, and prepare descriptive logs of each exploration. Soils were classified in general accordance with ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) (ASTM, 2023). The stratigraphic contacts shown on the exploration logs represent the approximate boundaries between soil types; actual transitions may be more gradual. The subsurface conditions depicted are only for the specific date and location reported and are not necessarily representative of other locations and times.

A.1. Drilled Soil Borings

On February 12, 13, and 14, 2025, Holt Drilling Services, Inc. (under subcontract to Aspect) completed five drilled boring explorations, designated AB-01 through AB-05, to depths ranging from 35.5 to 41 feet bgs at the locations shown on Figure 2. Boring AB-03 was completed as a monitoring well. The borings were drilled using mud-rotary methods advanced using a Mobile B-57 track-mounted drill rig.

The mud-rotary method consists of advancing a tricone bit with drilling mud (a bentonite slurry). The drill rig rotates the tricone bit and applies downward pressure to advance the boring; the mud is used to cool the bit, to wash the soil cuttings from the boring, and to maintain boring stability. The drilling mud is pumped down the interior of the drill rods and out through the bit at the bottom of the hole. The drilling mud carries soil cuttings up the annular space between the drill rods and the boring wall to the mud tub at the surface. Cuttings carried by the drilling mud are screened out or allowed to settle out in the mud tub, and the drilling mud is recirculated back down the boring.

Soil sampling in the drilled borings was completed at select depth intervals using standard penetration test methods in accordance with ASTM Method D1586, Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils (ASTM, 2023). The SPT method involves driving a 2-inch-outside-diameter split-barrel sampler with a 140-pound hammer free-falling from a distance of 30 inches. The number of blows for each 6-inch interval is recorded, and the number of blows required to drive the sampler (2-inch-outside-diameter) the final 12 inches is known as the Standard Penetration Resistance ("N") or blow count. The resistance, or N-value, provides a measure of the relative density of granular soils or the relative consistency of cohesive soils. If a total of 50 blows are recorded for a single 6-inch interval, the test is terminated, and the blow count is recorded as 50 blows for the total inches of penetration.

Samples were placed in labeled plastic jars and taken to a laboratory for further classification. Tests on these samples are described in Appendix B.

Upon completion, AB-01, AB-02, AB-04, and AB-05 were backfilled with 3/8-inch bentonite chips in accordance with requirements of the Washington State Department of Ecology (Ecology) and capped with existing ground cover to match existing conditions.

Upon completion, AB-03 was completed as a monitoring well in accordance with Ecology requirements. The well was completed with a 2-inch-diameter, PVC pipe with a 10-foot perforated screen section from 5 to 15 feet bgs. The boring was backfilled with 3/8-inch bentonite chips from 15 feet bgs to the bottom of exploration at 41 feet bgs. Bentonite chips were used above the sand-pack to seal the well to the ground surface. The monitoring well was completed with a locking cap and flush-mount monument set in concrete.

A.2. Test Pits

On February 13, 2025, High Meadows Excavating (under subcontract to Aspect) completed 10 test pits, designated ATP-01 through ATP-10, to depths ranging from 7 to 11 feet bgs. The test pits were excavated using a Hitachi Zaxis 50USB tracked excavator.

The relative density/consistency of the soils was evaluated qualitatively with a 0.5-inch-diameter steel T-probe and observation of digging difficulty. The test pits were backfilled with the excavated soils.

Coarse-Grained Soils - More than 50%[1] Retained on No. 200 Sieve	Gravels - More than 50%[1] of Coarse Fraction Retained on No. 4 Sieve	≤5% Fines	GW	Well-graded GRAVEL Well-graded GRAVEL WITH SAND
			GP	Poorly-graded GRAVEL Poorly-graded GRAVEL WITH SAND
		≥15% Fines	GM	SILTY GRAVEL SILTY GRAVEL WITH SAND
			GC	CLAYEY GRAVEL CLAYEY GRAVEL WITH SAND
	Sands - 50%[1] or More of Coarse Fraction Passes No. 4 Sieve	≤5% Fines	SW	Well-graded SAND Well-graded SAND WITH GRAVEL
			SP	Poorly-graded SAND Poorly-graded SAND WITH GRAVEL
		≥15% Fines	SM	SILTY SAND SILTY SAND WITH GRAVEL
			SC	CLAYEY SAND CLAYEY SAND WITH GRAVEL
Fine-Grained Soils - 50%[1] or More Passes No. 200 Sieve	Silts and Clays Liquid Limit Less than 50%		ML	SILT SANDY or GRAVELLY SILT SILT WITH SAND SILT WITH GRAVEL
			CL	LEAN CLAY SANDY or GRAVELLY LEAN CLAY LEAN CLAY WITH SAND LEAN CLAY WITH GRAVEL
			OL	ORGANIC SILT SANDY or GRAVELLY ORGANIC SILT ORGANIC SILT WITH SAND ORGANIC SILT WITH GRAVEL
	Silts and Clays Liquid Limit 50% or More		MH	ELASTIC SILT SANDY or GRAVELLY ELASTIC SILT ELASTIC SILT WITH SAND ELASTIC SILT WITH GRAVEL
			CH	FAT CLAY SANDY or GRAVELLY FAT CLAY FAT CLAY WITH SAND FAT CLAY WITH GRAVEL
			OH	ORGANIC CLAY SANDY or GRAVELLY ORGANIC CLAY ORGANIC CLAY WITH SAND ORGANIC CLAY WITH GRAVEL
Highly Organic Soils			PT	PEAT and other mostly organic soils

"WITH SILT" or "WITH CLAY" means 5 to 15% silt and clay, denoted by a "-" in the group name; e.g., SP-SM • "SILTY" or "CLAYEY" means >15% silt and clay • "WITH SAND" or "WITH GRAVEL" means 15 to 30% sand and gravel. • "SANDY" or "GRAVELLY" means >30% sand and gravel. • "Well-graded" means approximately equal amounts of fine to coarse grain sizes • "Poorly graded" means unequal amounts of grain sizes • Group names separated by "/" means soil contains layers of the two soil types; e.g., SM/ML.

Soils were described and identified in the field in general accordance with the methods described in ASTM D2488. Where indicated in the log, soils were classified using ASTM D2487 or other laboratory tests as appropriate. Refer to the report accompanying these exploration logs for details.

1. Estimated or measured percentage by dry weight
2. (SPT) Standard Penetration Test (ASTM D1586)
3. Determined by SPT, DCPT (ASTM STP399) or other field methods. See report text for details.

GEOTECHNICAL LAB TESTS

MC	=	Natural Moisture Content
PS	=	Particle Size Distribution
FC	=	Fines Content (% < 0.075 mm)
GH	=	Hydrometer Test
AL	=	Atterberg Limits
C	=	Consolidation Test
Str	=	Strength Test
OC	=	Organic Content (% Loss by Ignition)
Comp	=	Proctor Test
K	=	Hydraulic Conductivity Test
SG	=	Specific Gravity Test

CHEMICAL LAB TESTS

Organic Chemicals

BTEX	=	Benzene, Toluene, Ethylbenzene, Xylenes
TPH-Dx	=	Diesel and Oil-Range Petroleum Hydrocarbons
TPH-G	=	Gasoline-Range Petroleum Hydrocarbons
VOCs	=	Volatile Organic Compounds
SVOCs	=	Semi-Volatile Organic Compounds
PAHs	=	Polycyclic Aromatic Hydrocarbon Compounds
PCBs	=	Polychlorinated Biphenyls

Metals

RCRA8	=	As, Ba, Cd, Cr, Pb, Hg, Se, Ag, (d = dissolved, t = total)
MTCA5	=	As, Cd, Cr, Hg, Pb (d = dissolved, t = total)
PP-13	=	Ag, As, Be, Cd, Cr, Cu, Hg, Ni, Pb, Sb, Se, Tl, Zn (d=dissolved, t=total)

FIELD TESTS

PID	=	Photoionization Detector
Sheen	=	Oil Sheen Test
SPT[2]	=	Standard Penetration Test
NSPT	=	Non-Standard Penetration Test
DCPT	=	Dynamic Cone Penetration Test

COMPONENT DEFINITIONS

Descriptive Term		*Size Range and Sieve Number*
Boulders	=	Larger than 12 inches
Cobbles	=	3 inches to 12 inches
Coarse Gravel	=	3 inches to 3/4 inches
Fine Gravel	=	3/4 inches to No. 4 (4.75 mm)
Coarse Sand	=	No. 4 (4.75 mm) to No. 10 (2.00 mm)
Medium Sand	=	No. 10 (2.00 mm) to No. 40 (0.425 mm)
Fine Sand	=	No. 40 (0.425 mm) to No. 200 (0.075 mm)
Silt and Clay	=	Smaller than No. 200 (0.075 mm)

ESTIMATED[1] PERCENTAGE

% by Weight		*Modifier*	*% by Weight*		*Modifier*
<1	=	Subtrace	15 to 25	=	Little
1 to <5	=	Trace	30 to 45	=	Some
5 to 10	=	Few	>50	=	Mostly

MOISTURE CONTENT

Dry	=	Absence of moisture, dusty, dry to the touch
Slightly Moist	=	Perceptible moisture
Moist	=	Damp but no visible water
Very Moist	=	Water visible but not free draining
Wet	=	Visible free water, usually from below water table

RELATIVE DENSITY

Non-Cohesive or Coarse-Grained Soils

Density[3]		*SPT*[2] *Blows/Foot*	*Penetration with 1/2" Diameter Rod*
Very Loose	=	0 to 4	≥ 2'
Loose	=	5 to 10	1' to 2'
Medium Dense	=	11 to 30	3" to 1'
Dense	=	31 to 50	1" to 3"
Very Dense	=	> 50	< 1"

CONSISTENCY

Cohesive or Fine-Grained Soils

Consistency[3]		*SPT*[2] *Blows/Foot*	*Manual Test*
Very Soft	=	0 to 1	Penetrated >1" easily by thumb. Extrudes between thumb & fingers.
Soft	=	2 to 4	Penetrated 1/4" to 1" easily by thumb. Easily molded.
Medium Stiff	=	5 to 8	Penetrated >1/4" with effort by thumb. Molded with strong pressure.
Stiff	=	9 to 15	Indented ~1/4" with effort by thumb.
Very Stiff	=	16 to 30	Indented easily by thumbnail.
Hard	=	> 30	Indented with difficulty by thumbnail.

GEOLOGIC CONTACTS

Observed and Distinct — Observed and Gradual — Inferred

Aspect CONSULTING

Exploration Log Key

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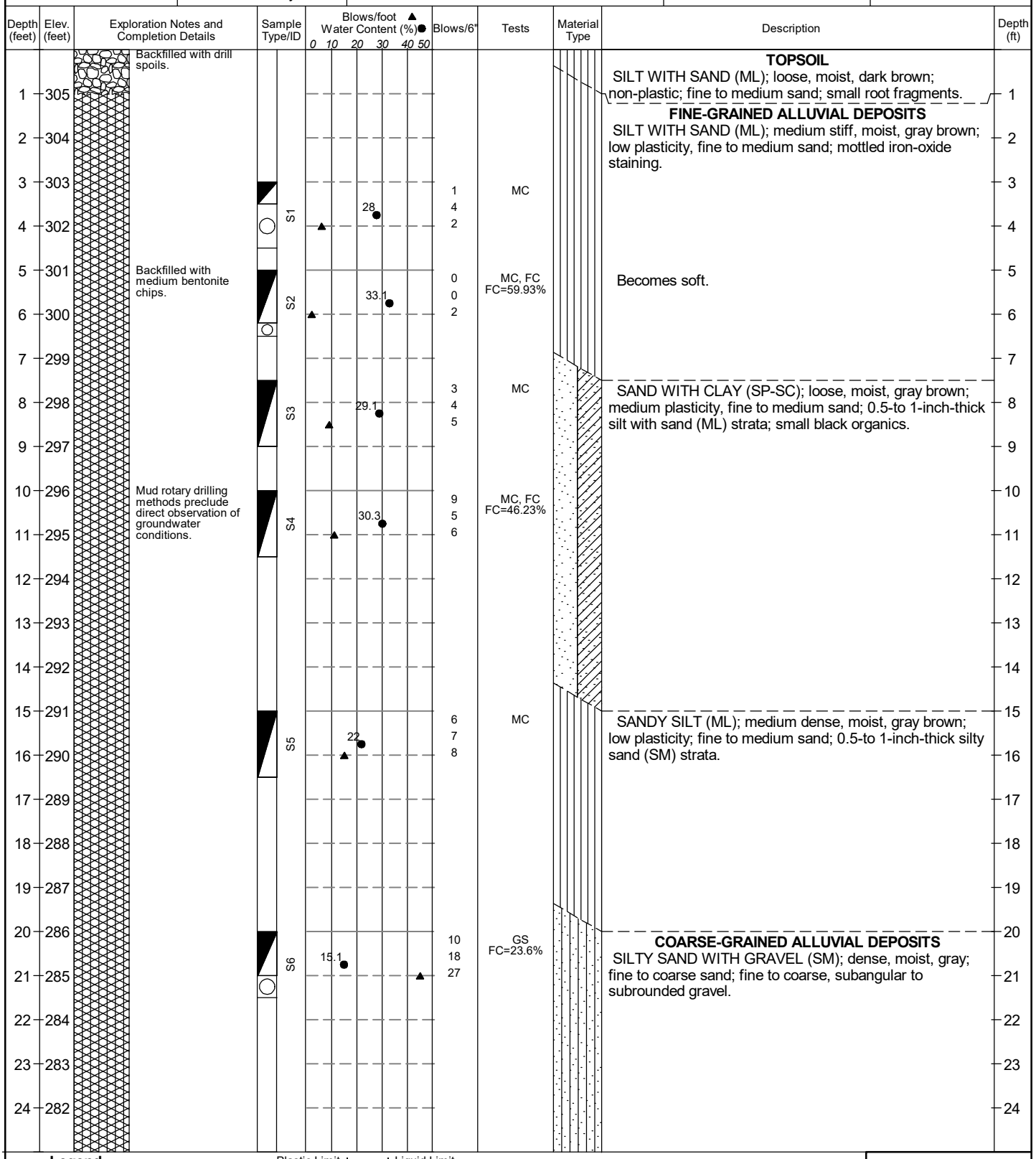
Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1143, -123.5140 (est)	*Exploration Number* **AB-01**
Contractor Holt Drilling, Inc.	*Equipment* Mobile Dril B-57	*Sampling Method* Autohammer; 140 lb hammer; 30" drop	*Ground Surface Elev. (NAVD88)* 306' (est)	
Operator Abraham Causland	*Exploration Method(s)* Mud rotary	*Work Start/Completion Dates* 2/12/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* No Water Encountered



Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◪ Split Barrel 2" X 1.375" (SPT)

Plastic Limit ⊢⊣ Liquid Limit

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log AB-01

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1143, -123.5140 (est)	*Exploration Number* **AB-01**
Contractor Holt Drilling, Inc.	*Equipment* Mobile Dril B-57	*Sampling Method* Autohammer; 140 lb hammer; 30" drop	*Ground Surface Elev. (NAVD88)* 306' (est)	
Operator Abraham Causland	*Exploration Method(s)* Mud rotary	*Work Start/Completion Dates* 2/12/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
26	280		S7		29 39 32			**COARSE-GRAINED ALLUVIAL DEPOSITS** SILTY SAND WITH GRAVEL (SM); dense, moist, gray; fine to coarse sand; fine to coarse, subangular to subrounded gravel. (continued) Becomes very dense.	26
27	279								27
28	278								28
29	277								29
30	276		S8		12 15 25			**GLACIAL TILL** SILTY SAND WITH GRAVEL (SM); dense, moist, blue gray; fine to coarse sand; fine to coarse, faceted, subangular to subrounded gravel.	30
31	275								31
32	274								32
33	273								33
34	272								34
35	271		S9		13 17			Becomes very dense.	35
36	270				49				36
37	269							Bottom of exploration at 36.5 ft. bgs.	37
38	268								38
39	267								39
40	266								40
41	265								41
42	264								42
43	263								43
44	262								44
45	261								45
46	260								46
47	259								47
48	258								48
49	257								49

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◪ Split Barrel 2" X 1.375" (SPT)

Plastic Limit ⊢⊣ Liquid Limit

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log AB-01
Sheet 2 of 2

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1138, -123.5139 (est)	*Exploration Number* **AB-02**
Contractor Holt Drilling, Inc.	*Equipment* Mobile Dril B-57	*Sampling Method* Autohammer; 140 lb hammer; 30" drop	*Ground Surface Elev. (NAVD88)* 306' (est)	
Operator Abraham Causland	*Exploration Method(s)* Mud rotary	*Work Start/Completion Dates* 2/12/2025 to 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%) ● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
1	305	Backfilled with drill spoils.						**TOPSOIL** SILT WITH SAND (ML); loose, moist, dark brown; non-plastic; fine to medium sand; small root fragments.	1
2	304							**FINE-GRAINED ALLUVIAL DEPOSITS** SILT WITH SAND (ML); very loose, moist, brown; low plasticity; fine to medium sand; mottled iron-oxide staining; small root fragments.	2
3	303		S1	30.1	0 0 1	MC			3
4	302								4
5	301	Backfilled with medium bentonite chips.			1	MC			5
6	300		S2	37.7	1 2				6
7	299								7
8	298		S3	31.6	1 2 3	MC, FC FC=53.52%		SILT WITH SAND (ML); loose, moist, brown; non-plastic; fine to coarse sand; trace, fine, subangular to subrounded gravel.	8
9	297								9
10	296	Mud rotary drilling methods preclude direct observation of groundwater conditions.			1	MC, AL		CLAY (CL); medium stiff, moist, brown; low plasticity; fine to coarse sand; 0.5 to 1-inch-thick silt with sand (ML) strata.	10
11	295		S4	40.5	3 3	LL=50% PL=27%			11
12	294								12
13	293								13
14	292								14
15	291				21	GS FC=17.4%		**COARSE-GRAINED ALLUVIAL DEPOSITS** SILTY SAND WITH GRAVEL (SM); very dense, moist, gray brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel.	15
16	290		S5	14	33 16				16
17	289								17
18	288								18
19	287								19
20	286	Blow counts may be elevated due to presence of gravels.			35			SAND WITH GRAVEL (SP); very dense, moist, gray brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel.	20
21	285		S6		50/5"				21
22	284								22
23	283								23
24	282								24

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◪ Split Barrel 2" X 1.375" (SPT)

Plastic Limit ⊢⊣ Liquid Limit

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log AB-02

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1138, -123.5139 (est)	*Exploration Number* **AB-02**
Contractor Holt Drilling, Inc.	*Equipment* Mobile Dril B-57	*Sampling Method* Autohammer; 140 lb hammer; 30" drop	*Ground Surface Elev. (NAVD88)* 306' (est)	
Operator Abraham Causland	*Exploration Method(s)* Mud rotary	*Work Start/Completion Dates* 2/12/2025 to 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
26	280		S7		46 45 50/6"			SAND WITH SILT AND GRAVEL (SP-SM); very dense, moist, gray brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel.	26
27	279								27
28	278							Driller estimates contact with till at 28 feet bgs based on drill action.	28
29	277							**GLACIAL TILL** SILTY SAND WITH GRAVEL (SM); very dense, moist, blue gray; fine to coarse sand; fine tocoarse, subangular to subrounded gravel.	29
30	276		S8		15 24 26				30
31	275								31
32	274								32
33	273								33
34	272								34
35	271		S9		30 36 50/3"				35
36	270								36
37	269								37
38	268								38
39	267								39
40	266		S10		50/3"			Poor recovery due to gravel. Bottom of exploration at 40.25 ft. bgs.	40
41	265								41
42	264								42
43	263								43
44	262								44
45	261								45
46	260								46
47	259								47
48	258								48
49	257								49

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◪ Split Barrel 2" X 1.375" (SPT)

Plastic Limit ⊢⊣ Liquid Limit

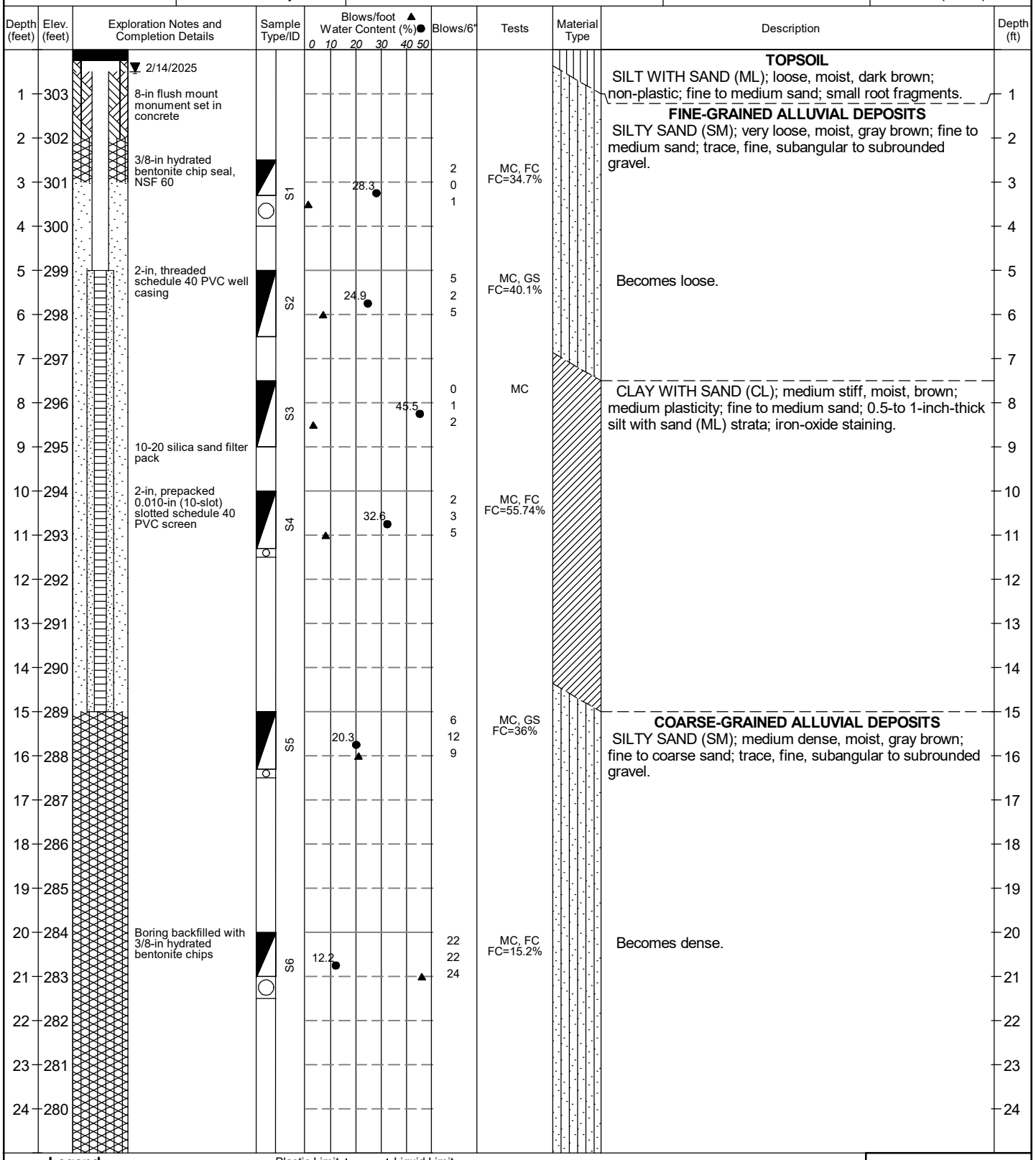
Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log AB-02
Sheet 2 of 2

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1149, -123.5130 (est)	*Exploration Number* **AB-03/AMW-01**
Contractor Holt Drilling, Inc.	*Equipment* Mobile Dril B-57	*Sampling Method* Autohammer; 140 lb hammer; 30" drop	*Ground Surface Elev. (NAVD88)* 304' (est)	
Operator Abraham Causland	*Exploration Method(s)* Mud rotary	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 0.5' (Static)



Legend

Sample Type
- No Soil Sample Recovery
- Split Barrel 2" X 1.375" (SPT)

Plastic Limit ⊢⊣ Liquid Limit

Water Level
- Static Water Level

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log AB-03/AMW-01

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1149, -123.5130 (est)	*Exploration Number* **AB-03/AMW-01**
Contractor Holt Drilling, Inc.	*Equipment* Mobile Dril B-57	*Sampling Method* Autohammer; 140 lb hammer; 30" drop	*Ground Surface Elev. (NAVD88)* 304' (est)	
Operator Abraham Causland	*Exploration Method(s)* Mud rotary	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 0.5' (Static)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
26	278							**COARSE-GRAINED ALLUVIAL DEPOSITS** SILTY SAND (SM); medium dense, moist, gray brown; fine to coarse sand; trace, fine, subangular to subrounded gravel. (continued)	26
27	277								27
28	276								28
29	275								29
30	274		S7		22				30
31	273				27 29			Becomes very dense and with 0.5-to 1-inch-thick sandy silt (ML) strata.	31
32	272								32
33	271								33
34	270								34
35	269								35
36	268								36
37	267								37
38	266								38
39	265								39
40	264		S8		36				40
41	263				50/5"			**GLACIAL TILL** SILTY SAND WITH GRAVEL (SM); very dense, moist, blue gray; fine to coasre sand; fine to coarse, subangular to subrounded, faceted gravel. Bottom of exploration at 41 ft. bgs.	41
42	262								42
43	261								43
44	260								44
45	259								45
46	258								46
47	257								47
48	256								48
49	255								49

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◪ Split Barrel 2" X 1.375" (SPT)

Plastic Limit ⊢—⊣ Liquid Limit

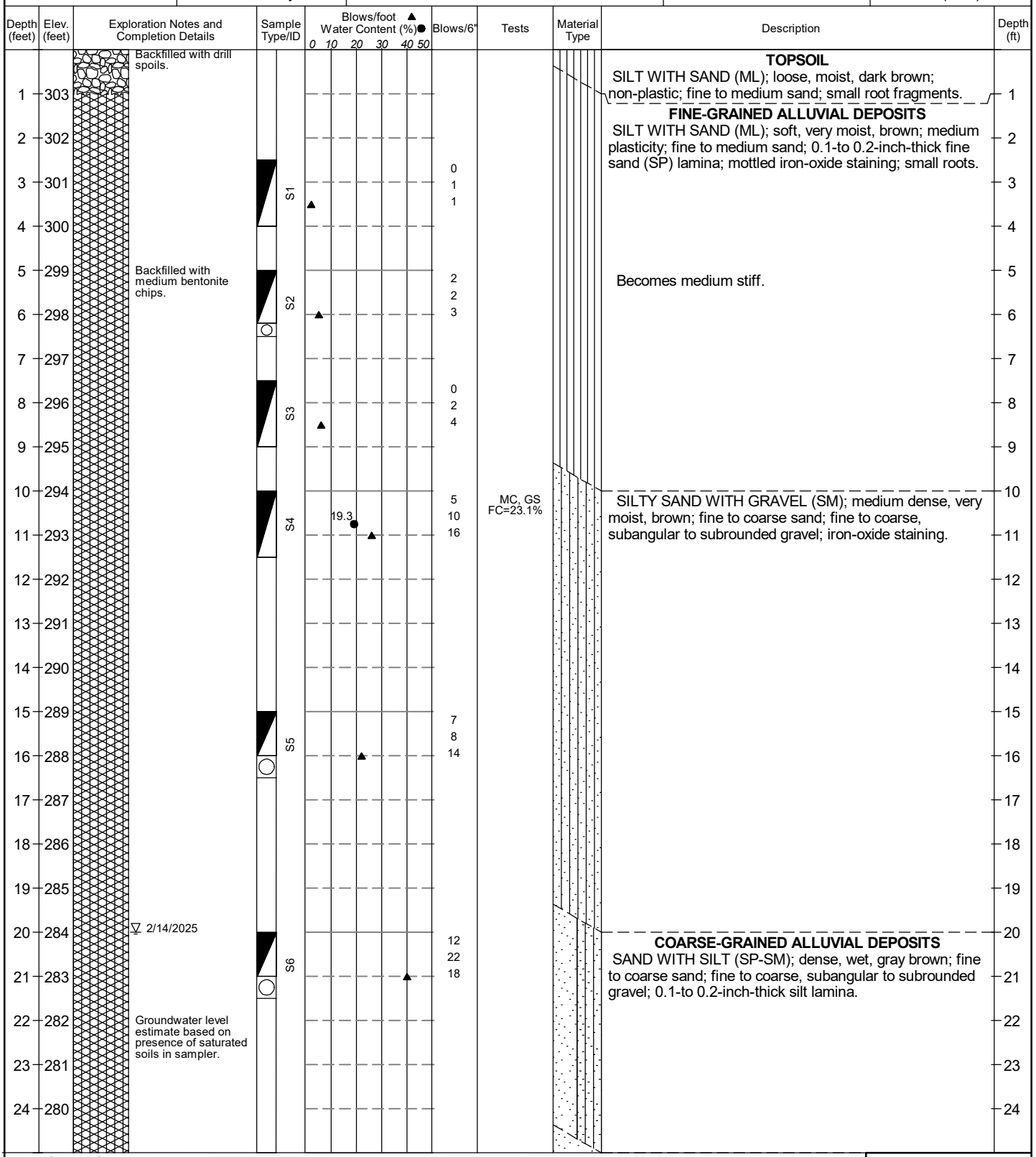
Water Level
- ▼ Static Water Level

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log AB-03/AMW-01
Sheet 2 of 2

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1145, -123.5128 (est)	*Exploration Number* **AB-04**
Contractor Holt Drilling, Inc.	*Equipment* Mobile Dril B-57	*Sampling Method* Autohammer; 140 lb hammer; 30" drop	*Ground Surface Elev. (NAVD88)* 304' (est)	
Operator Abraham Causland	*Exploration Method(s)* Mud rotary	*Work Start/Completion Dates* 2/13/2025 to 2/14/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 20' (ATD)



Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◩ Split Barrel 2" X 1.375" (SPT)

Plastic Limit ⊢⊣ Liquid Limit

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log AB-04

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1145, -123.5128 (est)	*Exploration Number* **AB-04**
Contractor Holt Drilling, Inc.	*Equipment* Mobile Dril B-57	*Sampling Method* Autohammer; 140 lb hammer; 30" drop	*Ground Surface Elev. (NAVD88)* 304' (est)	
Operator Abraham Causland	*Exploration Method(s)* Mud rotary	*Work Start/Completion Dates* 2/13/2025 to 2/14/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 20' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
26	278		S7		24 30 26			SAND WITH GRAVEL (SP); very dense, wet, gray; fine to coarse sand; fine to coarse, subangular to subrounded gravel/	26
27	277								27
28	276								28
29	275								29
30	274		S8		26			**GLACIAL TILL** SILTY SAND WITH GRAVEL (SM); very dense, wet, blue gray; fine to coasre sand; fine to coarse, subangular to subrounded, faceted gravel.	30
31	273				17 42				31
32	272								32
33	271								33
34	270								34
35	269		S9		50/4"				35
36	268								36
37	267								37
38	266								38
39	265								39
40	264		S10		50/4"			Bottom of exploration at 40.3 ft. bgs.	40
41	263								41
42	262								42
43	261								43
44	260								44
45	259								45
46	258								46
47	257								47
48	256								48
49	255								49

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◩ Split Barrel 2" X 1.375" (SPT)

Plastic Limit ⊢⊣ Liquid Limit

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log AB-04
Sheet 2 of 2

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1140, -123.5126 (est)	*Exploration Number* **AB-05**
Contractor Holt Drilling, Inc.	*Equipment* Mobile Dril B-57	*Sampling Method* Autohammer; 140 lb hammer; 30" drop	*Ground Surface Elev. (NAVD88)* 306' (est)	
Operator Abraham Causland	*Exploration Method(s)* Mud rotary	*Work Start/Completion Dates* 2/14/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 10' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%) ● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
1	305	Backfilled with drill spoils.						**TOPSOIL** SILT WITH SAND (ML); loose, moist, dark brown; non-plastic; fine to medium sand; small root fragments.	1
2	304							**FINE-GRAINED ALLUVIAL DEPOSITS** SILTY SAND (SM); soft, moist, brown; low plasticity; fine to medium sand; iron-oxide staining; small root fragments.	2
3	303		S1	▲ 35.5 ●	0 2 2	MC, FC FC=48.93%			3
4	302								4
5	301	Backfilled with medium bentonite chips.			0	MC, AL		SILT (ML); soft, moist, brown; low plasticity; fine to medium sand; 0.1-to 0.2-inch-thick, vertical, dark gray sand (SP) lamina with organics; iron-oxide staining.	5
6	300		S2	▲ 36.6 ●	2 2	LL=45% PL=28%			6
7	299								7
8	298		S3	▲	0 1 2				8
9	297								9
10	296	▽ 2/14/2025			2	MC, FC		**COARSE-GRAINED ALLUVIAL DEPOSITS** SANDY SILT WITH GRAVEL (ML); medium dense, wet, brown; non-plastic; fine to coarse sand; fine to coarse, subangular to subrounded gravel; 0.5-inch-thick silt (ML) lamina; iron-oxide staning.	10
11	295		S4	▲	4 4				11
12	294	Groundwater level estimate based on presence of saturated soils in sampler.							12
13	293								13
14	292								14
15	291				7	FC=27%			15
16	290		S5	▲ 22.5 ●	9 15				16
17	289								17
18	288								18
19	287								19
20	286				10	MC, GS FC=22.1%		SILTY SAND WITH GRAVEL (SM); dense, wet, brown; fine to coasre sand; fine to coarse, subangular to subrounded gravel.	20
21	285		S6	▲ 12 ●	25 24				21
22	284								22
23	283								23
24	282								24

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◪ Split Barrel 2" X 1.375" (SPT)

Plastic Limit ⊢ ⊣ Liquid Limit

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log AB-05

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1140, -123.5126 (est)	*Exploration Number* **AB-05**
Contractor Holt Drilling, Inc.	*Equipment* Mobile Dril B-57	*Sampling Method* Autohammer; 140 lb hammer; 30" drop	*Ground Surface Elev. (NAVD88)* 306' (est)	
Operator Abraham Causland	*Exploration Method(s)* Mud rotary	*Work Start/Completion Dates* 2/14/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 10' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
26	280		S7		23 23 22			**GLACIAL TILL** SILTY SAND WITH GRAVEL (SM); dense, very moist, blue gray; fine to coarse sand; fine to coarse, subangular to subrounded, faceted gravel.	26
27	279								27
28	278								28
29	277								29
30	276		S8		50/3"			Becomes very dense.	30
31	275								31
32	274								32
33	273								33
34	272								34
35	271		S9		50/6"				35
36	270							Bottom of exploration at 35.5 ft. bgs.	36
37	269								37
38	268								38
39	267								39
40	266								40
41	265								41
42	264								42
43	263								43
44	262								44
45	261								45
46	260								46
47	259								47
48	258								48
49	257								49

Legend

Sample Type
- ◯ No Soil Sample Recovery
- ◪ Split Barrel 2" X 1.375" (SPT)

Plastic Limit ⊢⊣ Liquid Limit

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log AB-05
Sheet 2 of 2

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1120, -123.5135 (est)	*Exploration Number* **ATP-01**
Contractor High Meadows Excavating, LLC	*Equipment* Hitachi Zaxis 50	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 318' (est)	
Operator Dave Monsaas	*Exploration Method(s)* Trackhoe	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 7' (Seep)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
								TOPSOIL SILT WITH SAND (ML); loose, moist, dark brown; non-plastic; fine to medium sand; small root fragments.	
1	317							**FINE-GRAINED ALLUVIAL DEPOSITS** SILTY SAND WITH GRAVEL (SM); loose, moist, brown; fine to coasre sand; fine to coarse, subangular to subrounded gravel.	1
2	316					T-probe =8"		Groundwater seep at 2 feet bgs.	2
3	315								3
4	314		S1	23 ●		T-probe =4" MC, CBR		SILT WITH SAND (ML); medium dense, moist, gray brown; fine to coarse sand; 1-to 3-inch-thick silty sand (SM) strata; iron-oxide staining; small wood fragments.	4
5	313	Backfilled with excavated material and tamped down with excavator bucket in 1-foot-thick lifts.							5
6	312								6
7	311	▽ 2/13/2025						Becomes wet.	7
8	310								8
9	309							SANDY SILT WITH GRAVEL (ML); medium dense, wet, gray brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel.	9
10	308							Bottom of exploration at 10 ft. bgs.	10
11	307								11
12	306								12
13	305								13
14	304								14

Legend

Sample Type: Grab sample

Plastic Limit ⊢⊣ Liquid Limit

Water Level: ▽ Water Level (Seepage)

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log ATP-01

Sheet 1 of 1

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1126, -123.5135 (est)	*Exploration Number* **ATP-02**
Contractor High Meadows Excavating, LLC	*Equipment* Hitachi Zaxis 50	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 312' (est)	
Operator Dave Monsaas	*Exploration Method(s)* Trackhoe	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 2' (Seep) 6' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
1	311							**TOPSOIL** SILTY SAND WITH GRAVEL (SM); loose, moist, dark brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel; iron-oxide staining.	1
2	310	○ 2/13/2025						**FINE-GRAINED ALLUVIAL DEPOSITS** SILTY SAND (SM); loose, moist, gray brown; fine to medium sand; small organics.	2
3	309								3
4	308	Backfilled with excavated material and tamped down with excavator bucket in 1-foot-thick lifts.	S1	30.3		T-probe =5" MC, FC FC=49.97%		**COARSE-GRAINED ALLUVIAL DEPOSITS** GRAVEL WITH SILT AND SAND (GP-GM); medium dense, very moist, gray brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel.	4
5	307								5
6	306	▽ 2/13/2025						Becomes wet.	6
7	305		S2						7
8	304								8
9	303								9
10	302								10
11	301							Bottom of exploration at 11 ft. bgs.	11
12	300								12
13	299								13
14	298								14

Legend

Sample Type: Grab sample

Plastic Limit ⊢—⊣ Liquid Limit

Water Level: ▽ Water Level ATD; ○ Water Level (Seepage)

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log ATP-02

Sheet 1 of 1

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1135, -123.5132 (est)	*Exploration Number* **ATP-03**
Contractor High Meadows Excavating, LLC	*Equipment* Hitachi Zaxis 50	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 309' (est)	
Operator Dave Monsaas	*Exploration Method(s)* Trackhoe	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 3' (Seep)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
								TOPSOIL SILT WITH SAND (ML); loose, moist, dark brown; non-plastic; fine to medium sand; small root fragments.	
1	308							**FINE-GRAINED ALLUVIAL DEPOSITS** SANDY SILT (ML); very soft to soft, moist, brown; low plasticity; fine to medium sand; small roots and black organics.	1
2	307								2
3	306	2/13/2025				T-probe =24"		Becomes wet.	3
4	305		S1	30		MC, GS, MP FC=53.8%		Becomes with 1-to 2-inch-thick sand (SP) strata.	4
5	304	Backfilled with excavated material and tamped down with excavator bucket in 1-foot-thick lifts.							5
6	303								6
7	302								7
8	301							SANDY SILT WITH GRAVEL (ML); stiff, wet, brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel; 1-to 5-inch-thick clay (CL) strata.	8
9	300								9
10	299								10
11	298		S2					Bottom of exploration at 11 ft. bgs.	11
12	297								12
13	296								13
14	295								14

Legend

Sample Type: Grab sample

Plastic Limit ⊢⊣ Liquid Limit

Water Level: Water Level (Seepage)

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log ATP-03

Sheet 1 of 1

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1140, -123.5140 (est)	*Exploration Number* **ATP-04**
Contractor High Meadows Excavating, LLC	*Equipment* Hitachi Zaxis 50	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 308' (est)	
Operator Dave Monsaas	*Exploration Method(s)* Trackhoe	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 4' (Seep)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
								TOPSOIL SILT WITH SAND (ML); loose, moist, dark brown; non-plastic; fine to medium sand; small root fragments.	
1	307								1
								FINE-GRAINED ALLUVIAL DEPOSITS SANDY SILT WITH GRAVEL (ML); loose, moist, brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel; iron-oxide staining; charcoal and wood fragments.	
2	306								2
3	305								3
4	304	▽ 2/13/2025	S1						4
								COARSE-GRAINED ALLUVIAL DEPOSITS SILTY GRAVEL WITH SAND (GM); medium dense, wet, brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel.	
5	303	Backfilled with excavated material and tamped down with excavator bucket in 1-foot-thick lifts.							5
6	302							**FINE-GRAINED ALLUVIAL DEPOSITS** SILT WITH SAND (ML); stiff, wet, brown; low plasticity; fine to medium sand; 1-to 5-inch-thick silty sand (SM) and clay with sand (CL) strata; iron-oxide staining.	6
7	301								7
8	300								8
9	299								9
10	298								10
			S2						
11	297							Bottom of exploration at 11 ft. bgs.	11
12	296								12
13	295								13
14	294								14

Legend

Sample Type: Grab sample

Plastic Limit ⊢⊣ Liquid Limit

Water Level: ▽ Water Level (Seepage)

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log ATP-04

Sheet 1 of 1

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1145, 123.5143 (est)	*Exploration Number* **ATP-05**
Contractor High Meadows Excavating, LLC	*Equipment* Hitachi Zaxis 50	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 308' (est)	
Operator Dave Monsaas	*Exploration Method(s)* Trackhoe	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 2' (Seep) 8' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
0								**TOPSOIL** SILT WITH SAND (ML); loose, moist, dark brown; non-plastic; fine to medium sand; small root fragments.	0
1	307							**FINE-GRAINED ALLUVIAL DEPOSITS** SILT WITH SAND (ML); soft, wet, brown; low plasticity; fine to medium sand; iron-oxide staining; small organics and roots.	1
2	306	▽ 2/13/2025				T-probe =8"			2
3	305								3
4	304		S1	22.6		T-probe =6" MC, CBR, FC FC=54.33%		SANDY SILT WITH GRAVEL (ML); medium stiff, wet, brown; low plasticity; fine to coarse sand; fine to coarse, subangular to subrounded gravel; 1-to 3-inch-thick sand (SP) strata.	4
5	303	Backfilled with excavated material and tamped down with excavator bucket in 1-foot-thick lifts.							5
6	302		S2					**COARSE-GRAINED ALLUVIAL DEPOSITS** GRAVEL WITH SILT AND SAND (GP-GM); loose to medium dense, wet, brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel.	6
7	301							SILT WITH SAND (ML); medium stiff, wet, brown; fine to medium sand; 1-to 2-inch-thick silty sand (SM) strata.	7
8	300	▽ 2/13/2025							8
9	299							SILTY GRAVEL WITH SAND (GM); medium dense, wet, brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel/	9
10	298		S3					Bottom of exploration at 10.5 ft. bgs.	10
11	297								11
12	296								12
13	295								13
14	294								14

Legend

Sample Type: Grab sample

Plastic Limit ⊢⊣ Liquid Limit

Water Level: ▽ Water Level ATD; ▽ Water Level (Seepage)

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log ATP-05

Sheet 1 of 1

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1144, -123.5125 (est)	*Exploration Number* **ATP-06**
Contractor High Meadows Excavating, LLC	*Equipment* Hitachi Zaxis 50	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 303' (est)	
Operator Dave Monsaas	*Exploration Method(s)* Trackhoe	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 2' (Seep) 5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
1	302							**TOPSOIL** SILT WITH SAND (ML); loose, moist, dark brown; non-plastic; fine to medium sand; small root fragments.	1
2	301	2/13/2025						**FINE-GRAINED ALLUVIAL DEPOSITS** SILT WITH SAND (ML); soft, moist, brown; low plasticity; fine to medium sand; 1-to 2-inch-thick clay with sand (CL) strata; iron-oxide staining.	2
3	300	Cave-in from 3 to 5 feet bgs.							3
4	299								4
5	298	2/13/2025						SANDY SILT WITH GRAVEL (ML); medium dense, wet, brown; non-plastic; fine to coarse sand; fine to coarse, subangular to subrounded gravel.	5
6	297	Backfilled with excavated material and tamped down with excavator bucket in 1-foot-thick lifts.							6
7	296		S1					Bottom of exploration at 7 ft. bgs.	7
8	295								8
9	294								9
10	293								10
11	292								11
12	291								12
13	290								13
14	289								14

Legend

Sample Type: Grab sample

Plastic Limit ⊢⊣ Liquid Limit

Water Level: Water Level ATD; Water Level (Seepage)

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log ATP-06

Sheet 1 of 1

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1138, -123.5122 (est)	*Exploration Number* **ATP-07**
Contractor High Meadows Excavating, LLC	*Equipment* Hitachi Zaxis 50	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 306' (est)	
Operator Dave Monsaas	*Exploration Method(s)* Trackhoe	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 1' (Seep)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
0								**TOPSOIL** SILT WITH SAND (ML); loose, moist, dark brown; non-plastic; fine to medium sand; small root fragments.	
1	305	2/13/2025						**FINE-GRAINED ALLUVIAL DEPOSITS** SILT WITH SAND (ML); soft, wet, brown; low plasticity; fine to medium sand; iron-oxide staining; small roots and black organics.	1
2	304								2
3	303								3
4	302								4
5	301	Backfilled with excavated material and tamped down with excavator bucket in 1-foot-thick lifts.						SANDY SILT WITH GRAVEL (ML); medium dense, wet, brown; non-plastic; fine to medium sand; 1-to 2-inch-thick sand (SP) strata; iron oxide staining.	5
6	300								6
7	299		S1					**COARSE-GRAINED ALLUVIAL DEPOSITS** GRAVEL WITH SILT AND SAND (GP-GM); medium dense, wet, gray brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel/	7
8	298								8
9	297	Cave-in at 9 feet bgs.						Bottom of exploration at 9 ft. bgs.	9
10	296								10
11	295								11
12	294								12
13	293								13
14	292								14

Legend

Sample Type: Grab sample

Plastic Limit ⊢⟶⊣ Liquid Limit

Water Level: Water Level (Seepage)

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log ATP-07

Sheet 1 of 1

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1134, -123.5122 (est)	*Exploration Number* **ATP-08**
Contractor High Meadows Excavating, LLC	*Equipment* Hitachi Zaxis 50	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 308' (est)	
Operator Dave Monsaas	*Exploration Method(s)* Trackhoe	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 6' (Seep)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
1	307							**TOPSOIL** SILT WITH SAND (ML); loose, moist, dark brown; non-plastic; fine to medium sand; small root fragments.	1
2	306							**FINE-GRAINED ALLUVIAL DEPOSITS** SILTY SAND WITH GRAVEL AND COBBLES (SM); loose, moist, brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel; subangular to subrounded cobbles up to 5 inches in diameter.	2
3	305					T-probe =3"			3
4	304								4
5	303	Backfilled with excavated material and tamped down with excavator bucket in 1-foot-thick lifts.						SILT WITH SAND (ML); medium stiff, very moist, brown; non-plastic; fine to medium sand; iron-oxide staining; small wood fragments and black organics.	5
6	302	▽ 2/13/2025						Becomes wet.	6
7	301		S1					**COARSE-GRAINED ALLUVIAL DEPOSITS** SILTY SAND WITH GRAVEL (SM); medium dense, wet, brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel.	7
8	300								8
9	299								9
10	298		S2					SILTY SAND (SM); dense, wet, dark bray; fine to coarse sand; 0.1-to 0.5-inch-thick silt (ML) strata; black organics.	10
11	297							Bottom of exploration at 11 ft. bgs.	11
12	296								12
13	295								13
14	294								14

Legend

Sample Type: Grab sample

Plastic Limit ⊢⊣ Liquid Limit

Water Level: ▽ Water Level (Seepage)

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log ATP-08

Sheet 1 of 1

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1126, -123.5125 (est)	*Exploration Number* **ATP-09**
Contractor High Meadows Excavating, LLC	*Equipment* Hitachi Zaxis 50	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 314' (est)	
Operator Dave Monsaas	*Exploration Method(s)* Trackhoe	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 6' (Seep)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
								TOPSOIL SILT WITH SAND (ML); loose, moist, dark brown; non-plastic; fine to medium sand; small root fragments.	
1	313							**FINE-GRAINED ALLUVIAL DEPOSITS** SILT WITH SAND (ML); soft, moist, brown; low plasticity; fine to medium sand; charcoal, small roots and wood fragments.	1
2	312							3-inch-diameter log at 2 feet bgs.	2
3	311					T-probe =6"			3
4	310	Backfilled with excavated material and tamped down with excavator bucket in 1-foot-thick lifts.							4
5	309							**COARSE-GRAINED ALLUVIAL DEPOSITS** SILTY GRAVEL WITH SAND (GM); medium dense, wet, brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel.	5
6	308	▽ 2/13/2025							6
7	307							**FINE-GRAINED ALLUVIAL DEPOSITS** SILT WITH SAND (ML); stiff, wet, brown; low plasticity, fine to medium sand; trace, fine, subangular to subrounded gravel; black organics and wood fragments.	7
8	306								8
9	305								9
10	304								10
								Bottom of exploration at 10.5 ft. bgs.	
11	303								11
12	302								12
13	301								13
14	300								14

Legend

Sample Type

Plastic Limit ⊢⊣ Liquid Limit

Water Level: ▽ Water Level (Seepage)

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log ATP-09

Sheet 1 of 1

Aspect CONSULTING	Project Peninsula - NWG0010		Geotechnical Exploration Log	
	Project Address & Site Specific Location S. Critchfield Rd. and W. Edgewood Dr., See Figure 2.		*Coordinates (Lat,Lon WGS84)* 48.1122, -123.5122 (est)	*Exploration Number* **ATP-10**
Contractor High Meadows Excavating, LLC	*Equipment* Hitachi Zaxis 50	*Sampling Method* Grab	*Ground Surface Elev. (NAVD88)* 318' (est)	
Operator Dave Monsaas	*Exploration Method(s)* Trackhoe	*Work Start/Completion Dates* 2/13/2025	*Top of Casing Elev. (NAVD88)* NA	*Depth to Water (Below GS)* 4' (Seep)

Depth (feet)	Elev. (feet)	Exploration Notes and Completion Details	Sample Type/ID	Blows/foot ▲ Water Content (%)● 0 10 20 30 40 50	Blows/6"	Tests	Material Type	Description	Depth (ft)
1	317							**TOPSOIL** SILT WITH SAND (ML); loose, moist, dark brown; non-plastic; fine to medium sand; small root fragments.	1
2	316							**FINE-GRAINED ALLUVIAL DEPOSITS** SILT WITH SAND (ML); soft, very moist, brown; low plasticity; fine to medium sand; iron-oxide staining.	2
3	315					T-probe =6"			3
4	314	2/13/2025							4
5	313	Backfilled with excavated material and tamped down with excavator bucket in 1-foot-thick lifts.	S1	28.4		MC, FC FC=73.64%			5
6	312							SANDY SILT WITH GRAVEL (ML); medium dense, wet, brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel; 2-to 3-inch-thick organic silt (OL) strata; iron-oxide staining.	6
7	311								7
8	310		S2					**COARSE-GRAINED ALLUVIAL DEPOSITS** SILTY GRAVEL WITH SAND (GM); medium dense, wet, brown; fine to coarse sand; fine to coarse, subangular to subrounded gravel.	8
9	309								9
10	308							SILT WITH SAND (ML); medium dense, wet, dark gray; fine to medium sand; 0.1-to 0.2-inch-thick sand (SP) partings.	10
11	307							Bottom of exploration at 10.5 ft. bgs.	11
12	306								12
13	305								13
14	304								14

Legend

Sample Type: Grab sample

Plastic Limit ⊢⊣ Liquid Limit

Water Level: Water Level (Seepage)

See Exploration Log Key for explanation of symbols

Logged by: CB
Approved by: AJH

Exploration Log ATP-10

Sheet 1 of 1

APPENDIX B

Geotechnical Laboratory Testing Results

B. Geotechnical Laboratory Testing Results

Geotechnical laboratory tests were conducted on selected soil samples collected during the field exploration programs. Laboratory testing was performed by Hayre McElroy and Associates, LLC, under subcontract to Aspect. The tests performed and the procedures followed are outlined below.

B.1. Moisture Content Determination, MC

Moisture contents of selected soil samples collected from the soil borings and test pits were determined in accordance with ASTM D2216 (ASTM, 2023). The results of the tests are summarized here and incorporated into the exploration logs in Appendix A.

B.2. Fines-Content Determination, FC

Fines contents of selected soil samples collected from the soil borings were determined in accordance with ASTM D1140. The results of the tests are summarized here and incorporated into the exploration logs in Appendix A.

B.3. Particle-Size Distribution, PS

Particle-size distribution of selected soil samples collected from the soil borings and test pits were determined in accordance with ASTM D6913. The results of the tests are presented graphically here and incorporated into the exploration logs in Appendix A.

B.4. Plasticity Index (Atterberg Limits)

Plasticity index (PI), expressed as the moisture content range between the liquid limit (LL) and plastic limit (PL), was determined in accordance with ASTM D4318 on selected samples collected from the soil borings. The results are shown in Appendix B and presented on the exploration logs.

B.5. Organic Content, OC

Organic contents of selected soil samples collected from the soil borings were determined in accordance with ASTM D2974. The results of the tests are presented graphically here and incorporated into the exploration logs in Appendix A.

B.6. Modified Proctor Test, MP

Modified proctor tests were performed on two samples collected from the test pits to determine the MDD and optimum water content of the Site soils in accordance with ASTM D1557. Per ASTM D4718, the oversize correction was applied to each test point to achieve a rock corrected maximum dry density and optimum moisture content. The results are presented graphically here.

B.7. California Bearing Ratio (CBR)

California bearing ratio tests were performed on two samples collected from the test pits to determine the pavement subgrade support characteristics of the Site soils in accordance with ASTM D1883. The results of the tests are presented graphically here.

Aspect CONSULTING

Project name: Project Peninsula Pivot Site
Project #: NWG0010
#8892

Please send report to:
andy.holmson@aspectconsulting.com
chelsea.bush@aspectconsulting.com

Laboratory Testing Schedule

	Lab Test Procedure (ASTM)	Unit pricing from:	HMA 2025
GS	Sieve analysis and #200 wash (includes MC)		$125
AL	Atterberg limits (D4318)		$185
FC	minus No. 200 wash (D1140)		$95
MC	moisture content (D2216, D4643)		$25
CBR	CALIFORNIA BEARING RATIO (D1883)		$325
MP	MODIFIED PROCTOR (D1557)		$315

Boring	Sample	Depth (ft.)	Lab Tests	Line Total ($)	Test Notes
AB-01	S1	3	MC	25	
AB-01	S2	5	MC, FC	120	
AB-01	S3	7.5	MC	25	
AB-01	S4	10	MC, FC	120	
AB-01	S5	15	MC	25	
AB-01	S6	20	GS	125	
AB-02	S1	2.5	MC	25	
AB-02	S2	5	MC	25	
AB-02	S3	7.5	MC, FC	120	
AB-02	S4	10	MC,AL	210	
AB-02	S5	15	GS	125	
AB-03	S1	2.5	FC	95	
AB-03	S2	5	GS, MC	150	
AB-03	S3	7.5	MC	25	
AB-03	S4	10	FC, MC	120	
AB-03	S5	15	GS	125	
AB-03	S6	20	FC	95	
AB-04	S4	10	GS	125	
AB-05	S1	2.5	MC, FC	120	
AB-05	S2	5	MC, AL	210	
AB-05	S4	10	MC, FC	120	
AB-05	S6	20	GS	125	
ATP-01	S1	4	CBR	325	
ATP-02	S1	4	FC	95	
ATP-03	S1	4	MP	315	
ATP-05	S1	4	CBR, MC, FC	445	
ATP-10	S1	5	FC, MC	120	

Test	No. of samples per test	Subtotal		
GS	6	$750		
AL	2	$370	ORDER SUBMITTED ON:	2/18/2025
FC	11	$1,045		
CBR	2	$650	RESULTS REQUESTED BY:	ASAP
MC	6			
MP	1			
TOTAL:	27 samples	$3,555		

710 2nd Ave, Suite 550
Seattle, Washington, 98104

hayremcelroy & associates, llc

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Redmond, WA 98052
p 425.869.6750

Moisture Content

ASTM D-2216

HMA Project Number: 08-175
Project Name: Project Peninsula Pivot Site
Description: Soil
Lab Number: 8892

Received Date: 02/19/25
Start Date: 02/25/25
Finish Date: 02/26/25
Technician: HL

Lab #	Tare ID	Boring	Sample #	Depth (ft)	Weight of Moist Soil + Tare (g)	Weight of Dry Soil + Tare (g)	Tare Weight (g)	Weight of Water (g)	Moisture Content (%)
8892-A	CL-2	**AB-01**	S1	3	374.30	295.20	12.50	79.10	**28.0**
8892-B	OC-8	**AB-01**	S2	5	597.60	452.20	12.70	145.40	**33.1**
8892-C	DS-1	**AB-01**	S3	7.5	598.70	466.60	12.60	132.10	**29.1**
8892-D	JC-6	**AB-01**	S4	10	489.10	378.20	12.60	110.90	**30.3**
8892-E	RW-3	**AB-01**	S5	15	487.80	402.10	12.60	85.70	**22.0**
8892-F	GG-8	**AB-01**	S6	20	465.00	405.70	12.80	59.30	**15.1**
8892-G	SB-2	**AB-02**	S1	2.5	478.00	370.20	12.60	107.80	**30.1**
8892-H	F-8	**AB-02**	S2	5	494.70	363.70	15.90	131.00	**37.7**
8892-I	F-48	**AB-02**	S3	7.5	609.40	467.10	16.20	142.30	**31.6**
8892-J	Z-6	**AB-02**	S4	10	169.40	122.50	6.60	46.90	**40.5**
8892-K	C-5	**AB-02**	S5	15	565.30	497.20	13.00	68.10	**14.1**
8892-L	F-26	**AB-03**	S1	2.5	386.00	304.30	16.10	81.70	**28.3**
8892-M	F-54	**AB-03**	S2	5	622.50	501.40	16.00	121.10	**24.9**
8892-N	F-7	**AB-03**	S3	7.5	667.90	464.10	16.30	203.80	**45.5**
8892-O	C-2	**AB-03**	S4	10	648.40	492.20	12.80	156.20	**32.6**
8892-P	F-68	**AB-03**	S5	15	630.10	526.50	16.20	103.60	**20.3**
8892-Q	F-36	**AB-03**	S6	20	636.60	569.10	16.30	67.50	**12.2**
8892-R	F-2	**AB-04**	S4	10	442.20	373.50	16.80	68.70	**19.3**
8892-S	F-35	**AB-05**	S1	2.5	511.50	381.90	16.50	129.60	**35.5**
8892-T	S-12	**AB-05**	S2	5	127.60	95.20	6.70	32.40	**36.6**
8892-U	E-6	**AB-05**	S4	10	538.20	441.80	12.90	96.40	**22.5**
8892-V	GS-7	**AB-05**	S6	20	629.00	563.20	12.90	65.80	**12.0**
8892-W	KM-10	**ATP-01**	S1	4	300.40	246.60	12.70	53.80	**23.0**
8892-X	F-23	**ATP-02**	S1	4	675.70	522.20	16.30	153.50	**30.3**
8892-Y	G-299	**ATP-03**	S1	4	495.30	384.90	16.60	110.40	**30.0**
8892-Z	EZ-03	**ATP-05**	S1	4	479.00	392.90	12.60	86.10	**22.6**
8892-A1	F-30	**ATP-10**	S1	5	796.90	624.30	16.20	172.60	**28.4**

Oven No.	Oven In-Calibration	Calibration Due	Balance	In Calibration	Calibration Due
B23ERS-0026	8/9/2024	August 2025	545249	8/9/2025	August 2025

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Redmond, WA 98052
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Fines Content
ASTM C117

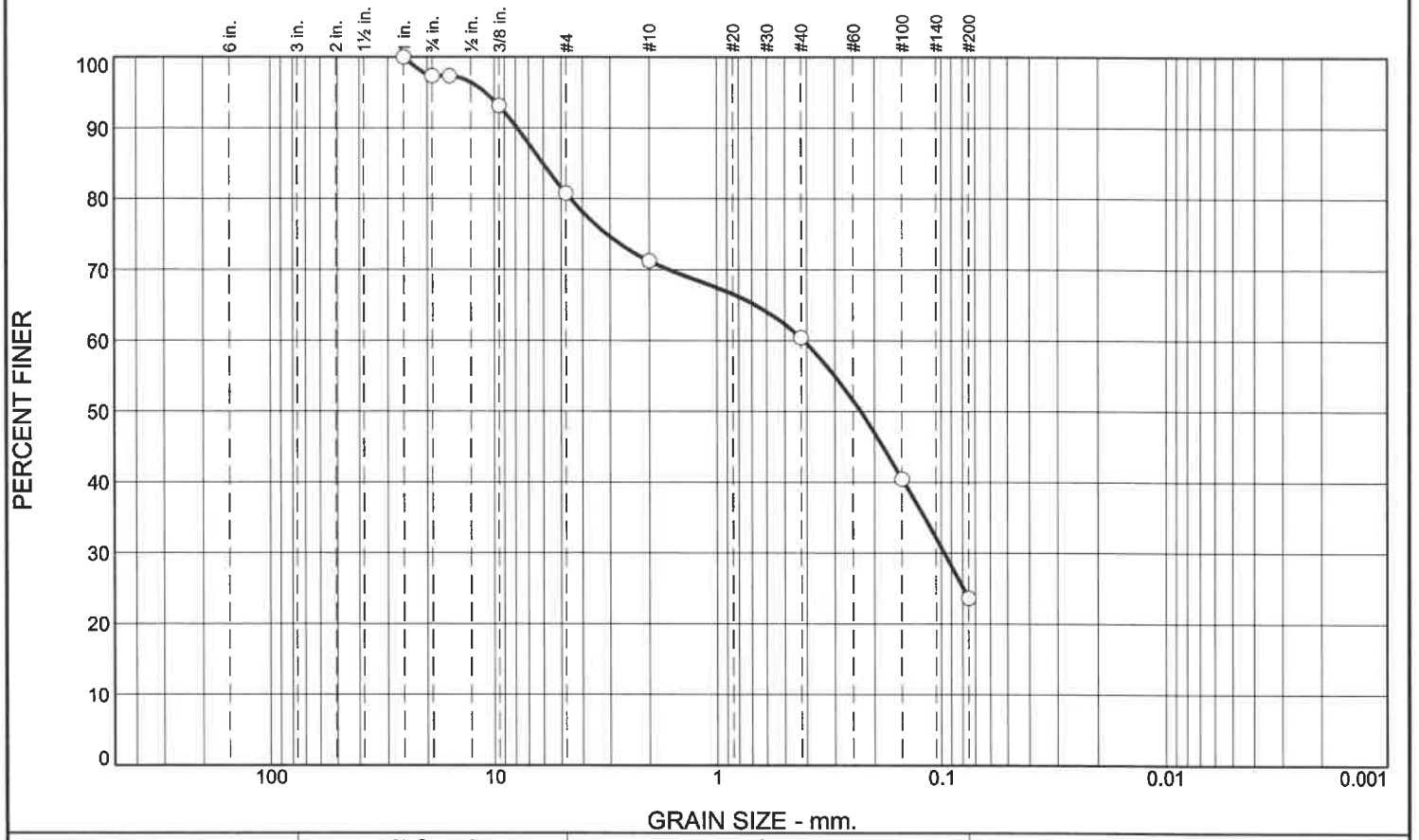
Project Number: 08-175
Project Name: Project Peninsula Pivot Site
Sample ID: Soil
Spec: FC
HMA LAB NO 8892

Technician: HL
Received: 02/19/25
Start Date: 02/25/25
Finish Date: 02/27/25

Lab Number	Boring	Sample	Depth (ft)	Tare #	Tare Weight (g)	Tare+Dry Weight Before Wash (g)	Tare+Dry Weight After Wash (g)	% Retained	% PASSING
8892-B	**AB-01**	S2	5	OC-8	12.70	452.20	188.80	40.07	**59.93**
8892-D	**AB-01**	S4	10	JC-6	12.60	378.20	209.20	53.77	**46.23**
8892-I	**AB-02**	S3	7.5	F-48	16.20	467.10	225.80	46.48	**53.52**
8892-L	**AB-03**	S1	2.5	F-26	16.10	304.30	204.30	65.30	**34.70**
8892-O	**AB-03**	S4	10	C-2	12.80	492.20	225.00	44.26	**55.74**
8892-Q	**AB-03**	S6	20	F-36	16.30	569.10	485.10	84.80	**15.20**
8892-S	**AB-05**	S1	2.5	F-35	16.50	381.90	203.10	51.07	**48.93**
8892-U	**AB-05**	S4	10	E-6	12.90	441.80	326.00	73.00	**27.00**
8892-X	**ATP-02**	S1	4	F-23	16.30	544.20	280.40	50.03	**49.97**
8892-Z	**ATP-05**	S1	4	EZ-03	12.60	392.90	186.30	45.67	**54.33**
8892-A1	**ATP-10**	S1	5	F-30	16.20	624.30	176.50	26.36	**73.64**

Oven No.	Oven In-Calibration	Calibration Due	Balance		In Calibration	Calibration Due
B23ERS-0026	8/9/2024	August 2025	545249		8/9/2025	August 2025

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.6	16.6	9.5	10.9	36.8	23.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	97.4		
5/8"	97.4		
3/8"	93.1		
#4	80.8		
#10	71.3		
#40	60.4		
#100	40.5		
#200	23.6		

* (no specification provided)

Soil Description

Silty SAND with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 7.8716 D_{85}= 6.0158 D_{60}= 0.4126
D_{50}= 0.2313 D_{30}= 0.0970 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

MC - 15.1%

Source of Sample: AB-01 **Depth:** 20 ft.
Sample Number: S6

Date: 03/11/2025

Hayre McElroy & Associates, LLC

Redmond, WA

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project No: Lab #8892 **Figure**

Tested By: HL **Checked By:** JM

GRAIN SIZE DISTRIBUTION TEST DATA

3/11/2025

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project Number: Lab #8892
Location: AB-01
Depth: 20 ft. **Sample Number:** S6
Material Description: Silty SAND with gravel
Date: 03/11/2025
USCS Classification: SM
Testing Remarks: MC - 15.1%
Tested by: HL **Checked by:** JM

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 332.40
Tare Wt. = 12.80
Minus #200 from wash = 19.5%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
409.70	12.80	0.00	1"	0.00	100.0
			3/4"	10.40	97.4
			5/8"	10.40	97.4
			3/8"	27.20	93.1
			#4	76.30	80.8
			#10	114.10	71.3
			#40	157.20	60.4
			#100	236.30	40.5
			#200	303.10	23.6

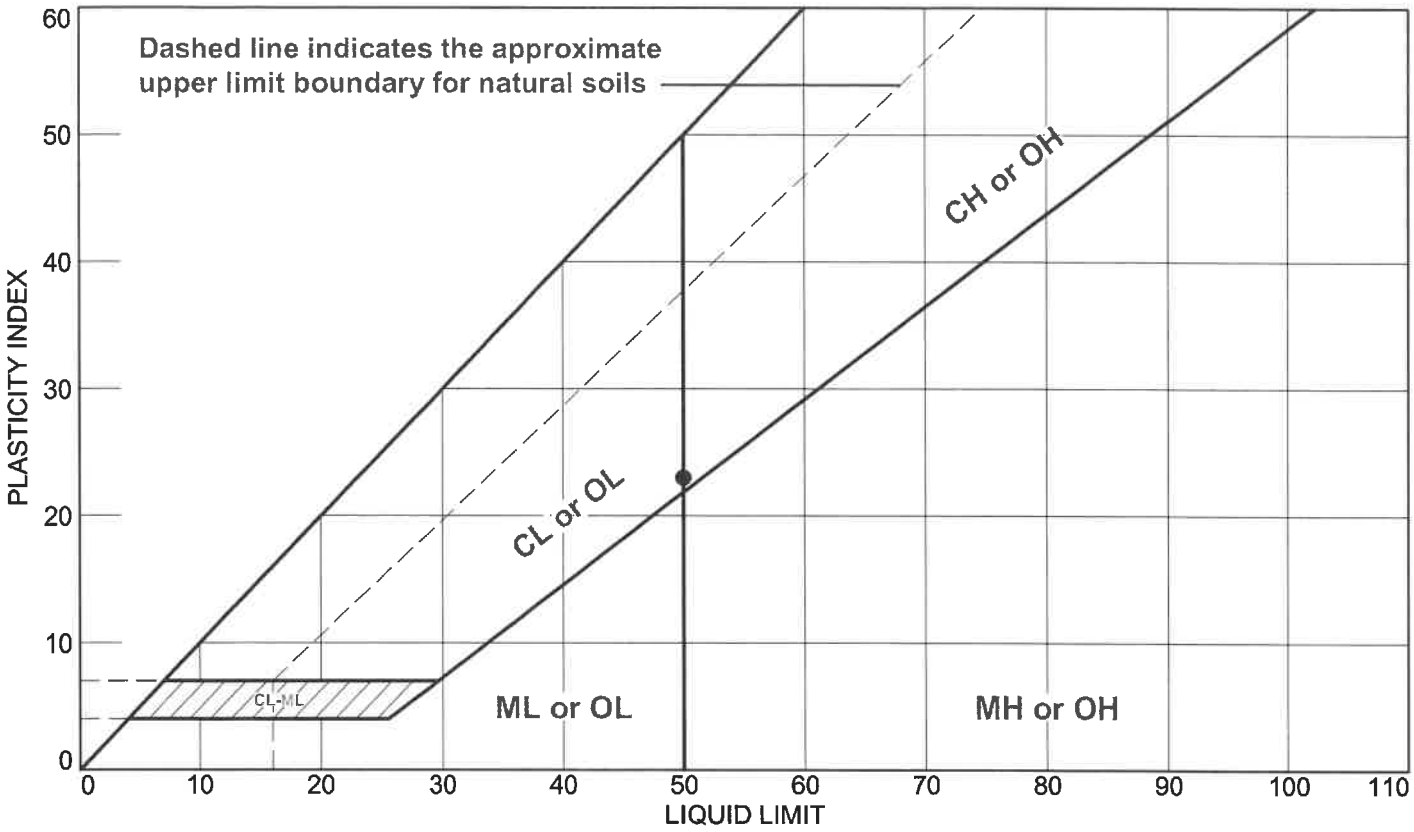
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	2.6	16.6	19.2	9.5	10.9	36.8	57.2			23.6

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
				0.0970	0.1470	0.2313	0.4126	4.5272	6.0158	7.8716	10.9402

Fineness Modulus
2.28

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	LIQUIDITY INDEX	USCS
●	AB-02	S4	10 ft.	40.5	27	50	23	0.6	CL

Hayre McElroy & Associates, LLC **Redmond, WA**	**Client:** Aspect Consulting **Project:** Project Peninsula Pivot Site Project #NWG0010 **Project No.:** Lab #8892 **Figure**

Tested By: HL **Checked By:** JM

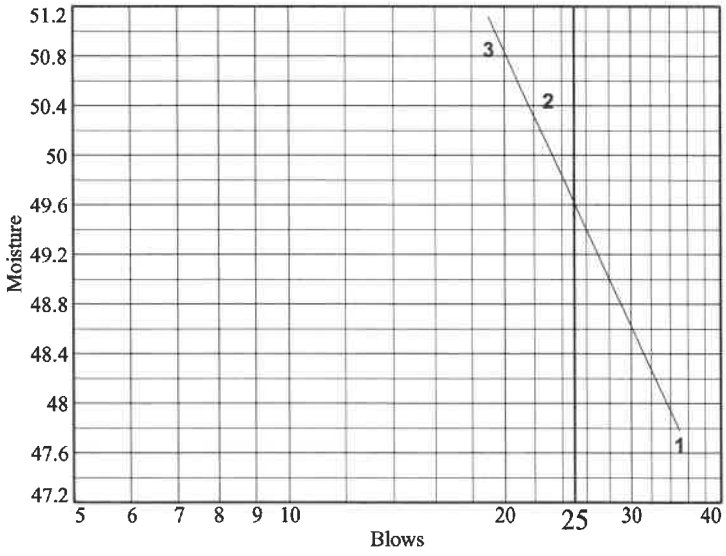
LIQUID AND PLASTIC LIMIT TEST DATA

3/12/2025

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project Number: Lab #8892
Location: AB-02
Depth: 10 ft. **Sample Number:** S4
Material Description: CLAY
USCS: CL
Tested by: HL **Checked by:** JM

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare	33.33	36.51	39.19			
Dry+Tare	26.17	28.02	29.72			
Tare	11.15	11.19	11.10			
# Blows	35	23	19			
Moisture	47.7	50.4	50.9			



Liquid Limit= 50
Plastic Limit= 27
Plasticity Index= 23
Natural Moisture= 40.5
Liquidity Index= 0.6

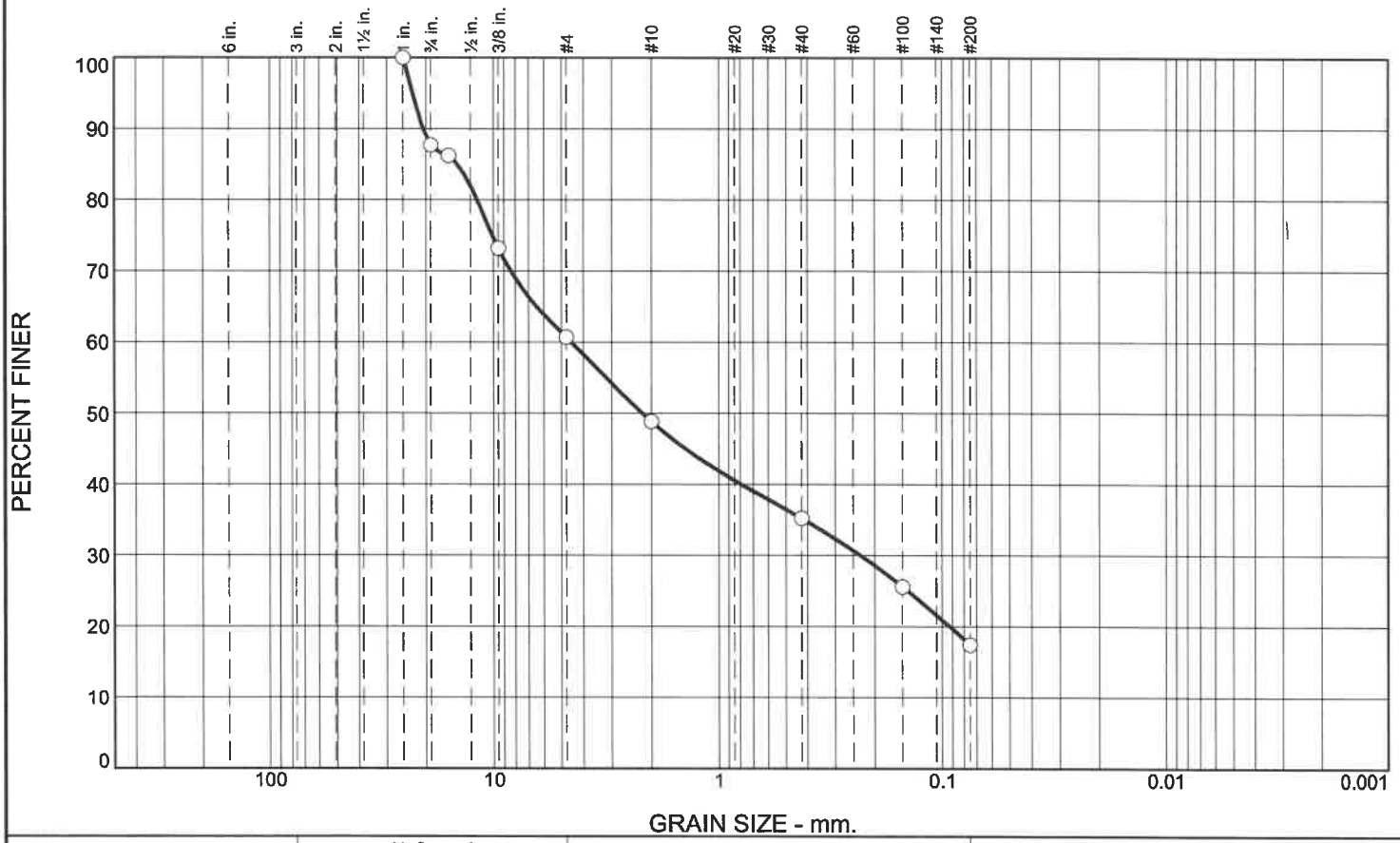
Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare	20.54	21.056			
Dry+Tare	18.55	18.94			
Tare	11.16	11.14			
Moisture	26.9	27.1			

Natural Moisture Data

Wet+Tare	Dry+Tare	Tare	Moisture
169.40	122.50	6.6	40.5

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	12.3	27.0	11.8	13.7	17.8	17.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	87.7		
5/8"	86.2		
3/8"	73.2		
#4	60.7		
#10	48.9		
#40	35.2		
#100	25.6		
#200	17.4		

* (no specification provided)

Soil Description

Silty SAND with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 20.6543 D_{85}= 14.4901 D_{60}= 4.5167
D_{50}= 2.1924 D_{30}= 0.2315 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

MC - 14.1%

Source of Sample: AB-02 **Depth:** 15 ft.
Sample Number: S5

Date: 03/11/2025

Hayre McElroy & Associates, LLC

Redmond, WA

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project No: Lab #8892 **Figure**

Tested By: HL **Checked By:** JM

GRAIN SIZE DISTRIBUTION TEST DATA

3/11/2025

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project Number: Lab #8892
Location: AB-02
Depth: 15 ft. **Sample Number:** S5
Material Description: Silty SAND with gravel
Date: 03/11/2025
USCS Classification: SM
Testing Remarks: MC - 14.1%
Tested by: HL **Checked by:** JM

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 426.70
Tare Wt. = 13.00
Minus #200 from wash = 15.6%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
503.20	13.00	0.00	1"	0.00	100.0
			3/4"	60.20	87.7
			5/8"	67.50	86.2
			3/8"	131.30	73.2
			#4	192.70	60.7
			#10	250.70	48.9
			#40	317.50	35.2
			#100	364.70	25.6
			#200	404.70	17.4

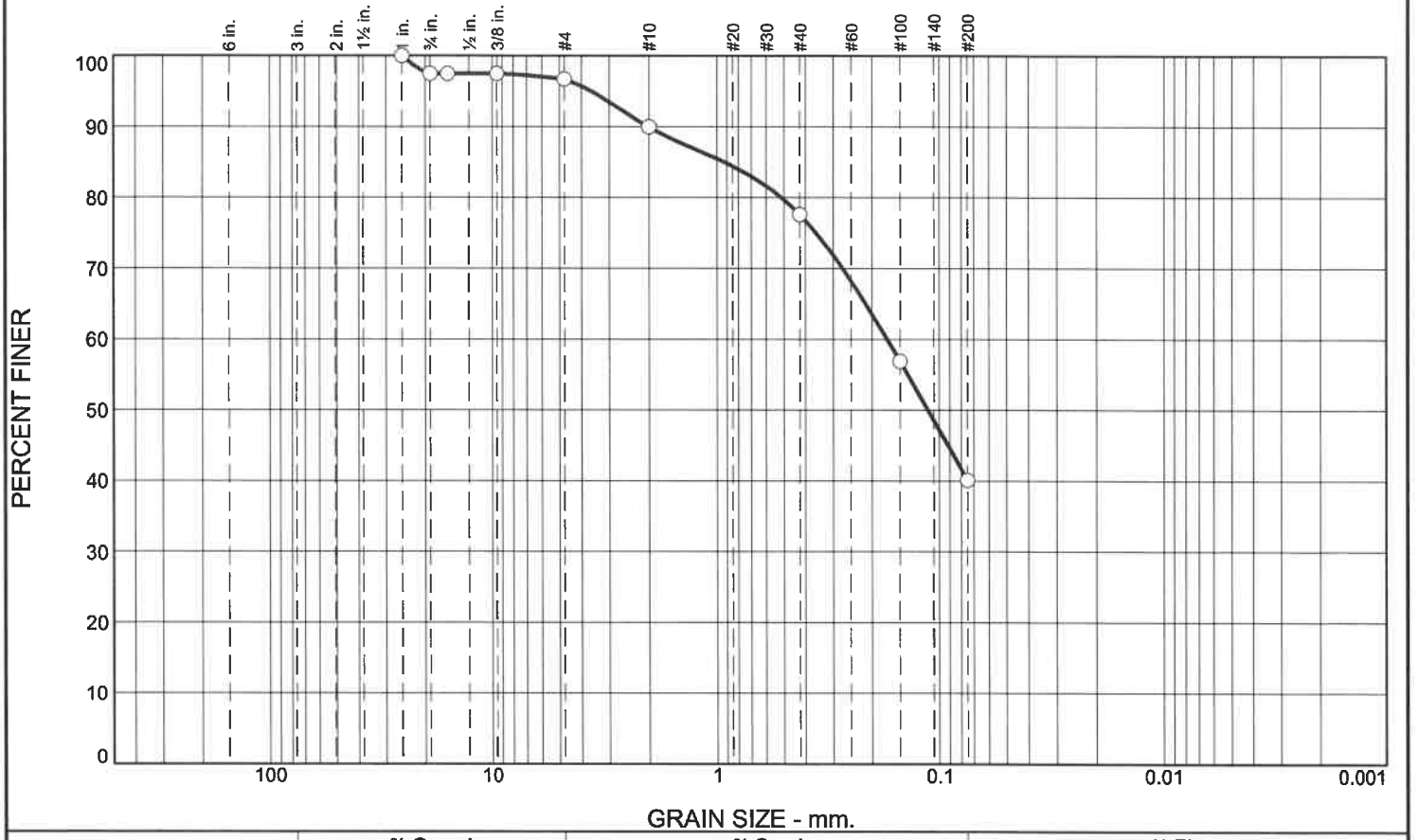
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	12.3	27.0	39.3	11.8	13.7	17.8	43.3			17.4

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
			0.0925	0.2315	0.7908	2.1924	4.5167	11.8914	14.4901	20.6543	23.1196

Fineness Modulus
3.88

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.5	0.8	6.7	12.4	37.5	40.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	97.5		
5/8"	97.5		
3/8"	97.5		
#4	96.7		
#10	90.0		
#40	77.6		
#100	56.9		
#200	40.1		

* (no specification provided)

Soil Description

Silty SAND

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 2.0031 D_{85}= 0.9208 D_{60}= 0.1714
D_{50}= 0.1125 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

MC - 24.9%

Source of Sample: AB-03 **Depth:** 5 ft.
Sample Number: S2

Date: 03/11/2025

Hayre McElroy & Associates, LLC

Redmond, WA

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project No: Lab #8892

Figure

Tested By: HL **Checked By:** JM

GRAIN SIZE DISTRIBUTION TEST DATA

3/11/2025

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project Number: Lab #8892
Location: AB-03
Depth: 5 ft. **Sample Number:** S2
Material Description: Silty SAND
Date: 03/11/2025
USCS Classification: SM
Testing Remarks: MC - 24.9%
Tested by: HL **Checked by:** JM

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 385.30
Tare Wt. = 16.00
Minus #200 from wash = 23.9%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
501.40	16.00	0.00	1"	0.00	100.0
			3/4"	12.20	97.5
			5/8"	12.20	97.5
			3/8"	12.20	97.5
			#4	16.00	96.7
			#10	48.60	90.0
			#40	108.60	77.6
			#100	209.30	56.9
			#200	290.70	40.1

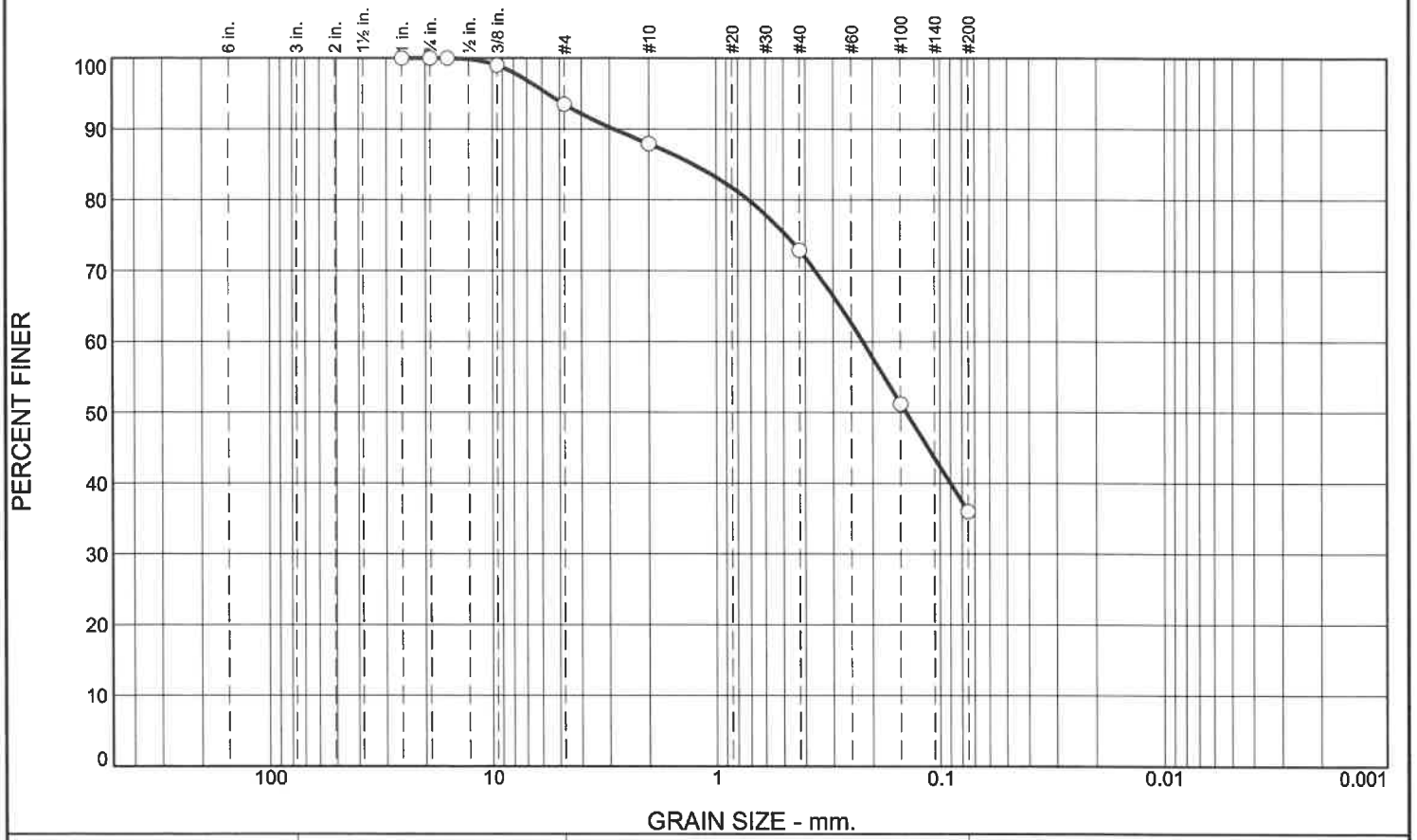
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	2.5	0.8	3.3	6.7	12.4	37.5	56.6			40.1

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
						0.1125	0.1714	0.5124	0.9208	2.0031	3.6021

Fineness Modulus
1.20

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.5	5.6	15.0	36.9	36.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	100.0		
5/8"	100.0		
3/8"	99.0		
#4	93.5		
#10	87.9		
#40	72.9		
#100	51.2		
#200	36.0		

* (no specification provided)

Soil Description

Silty SAND

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 2.8557 D_{85}= 1.2540 D_{60}= 0.2219
D_{50}= 0.1420 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

MC - 20.3%

Source of Sample: AB-03 **Depth:** 15 ft.
Sample Number: S5

Date: 03/11/2025

Hayre McElroy & Associates, LLC

Redmond, WA

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project No: Lab #8892

Figure

Tested By: HL **Checked By:** JM

GRAIN SIZE DISTRIBUTION TEST DATA

3/11/2025

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project Number: Lab #8892
Location: AB-03
Depth: 15 ft. **Sample Number:** S5
Material Description: Silty SAND
Date: 03/11/2025
USCS Classification: SM
Testing Remarks: MC - 20.3%
Tested by: HL **Checked by:** JM

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 368.10
Tare Wt. = 16.20
Minus #200 from wash = 31.0%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
526.50	16.20	0.00	1"	0.00	100.0
			3/4"	0.00	100.0
			5/8"	0.00	100.0
			3/8"	4.90	99.0
			#4	33.10	93.5
			#10	61.50	87.9
			#40	138.20	72.9
			#100	248.90	51.2
			#200	326.60	36.0

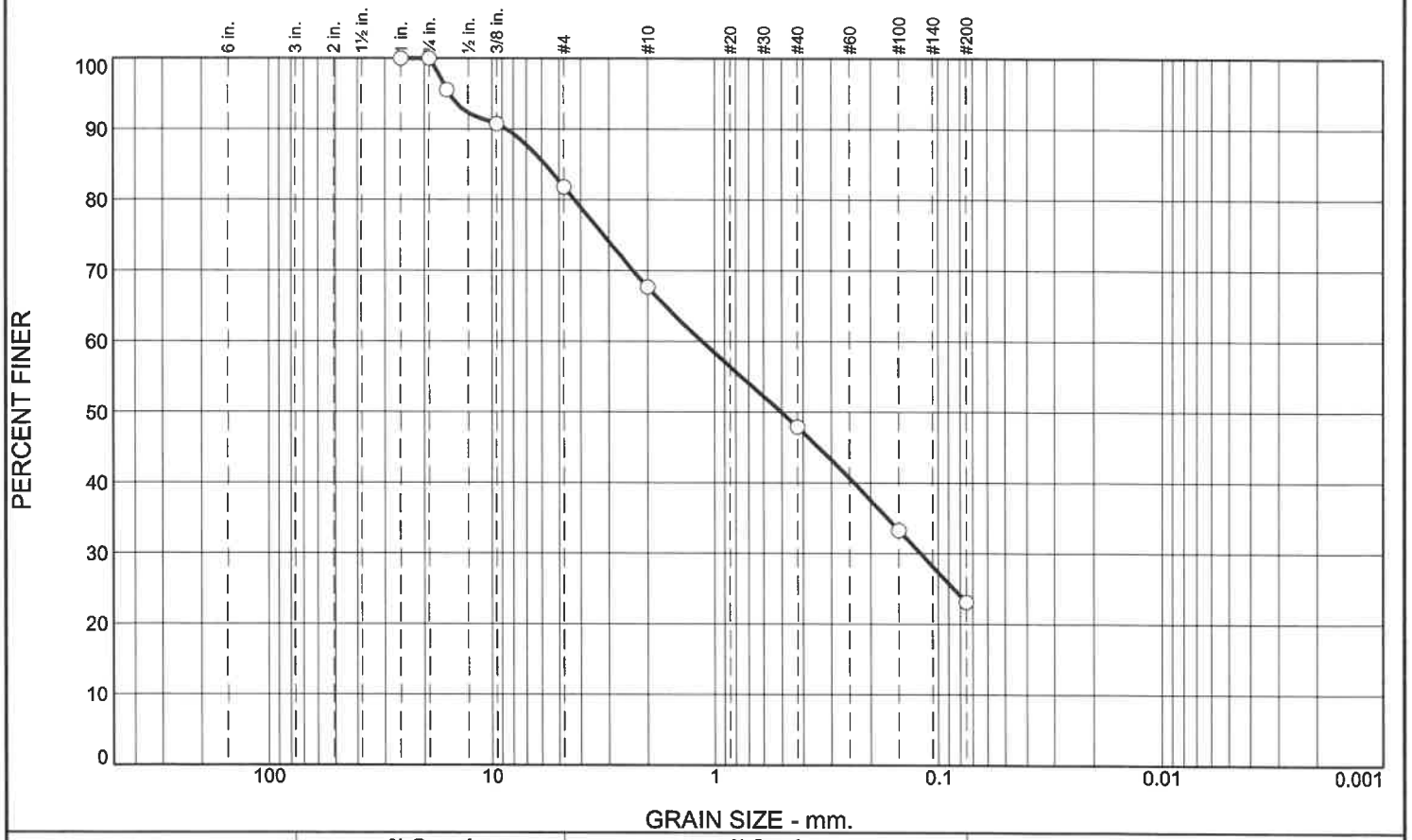
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	6.5	6.5	5.6	15.0	36.9	57.5			36.0

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
					0.0901	0.1420	0.2219	0.7136	1.2540	2.8557	5.6359

Fineness Modulus
1.38

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	18.2	14.1	19.8	24.8	23.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	100.0		
5/8"	95.6		
3/8"	90.8		
#4	81.8		
#10	67.7		
#40	47.9		
#100	33.3		
#200	23.1		

* (no specification provided)

Soil Description

Silty SAND with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 8.5751 D_{85}= 5.7753 D_{60}= 1.1358
D_{50}= 0.5010 D_{30}= 0.1200 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

MC - 19.3%

Source of Sample: AB-04 **Depth:** 10 ft.
Sample Number: S4

Date: 03/11/2025

Hayre McElroy & Associates, LLC

Redmond, WA

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project No: Lab #8892

Figure

Tested By: HL **Checked By:** JM

GRAIN SIZE DISTRIBUTION TEST DATA

3/11/2025

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project Number: Lab #8892
Location: AB-04
Depth: 10 ft. **Sample Number:** S4
Material Description: Silty SAND with gravel
Date: 03/11/2025
USCS Classification: SM
Testing Remarks: MC - 19.3%
Tested by: HL **Checked by:** JM

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 297.50
Tare Wt. = 16.80
Minus #200 from wash = 21.3%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
373.50	16.80	0.00	1"	0.00	100.0
			3/4"	0.00	100.0
			5/8"	15.80	95.6
			3/8"	32.90	90.8
			#4	64.80	81.8
			#10	115.20	67.7
			#40	185.80	47.9
			#100	238.00	33.3
			#200	274.30	23.1

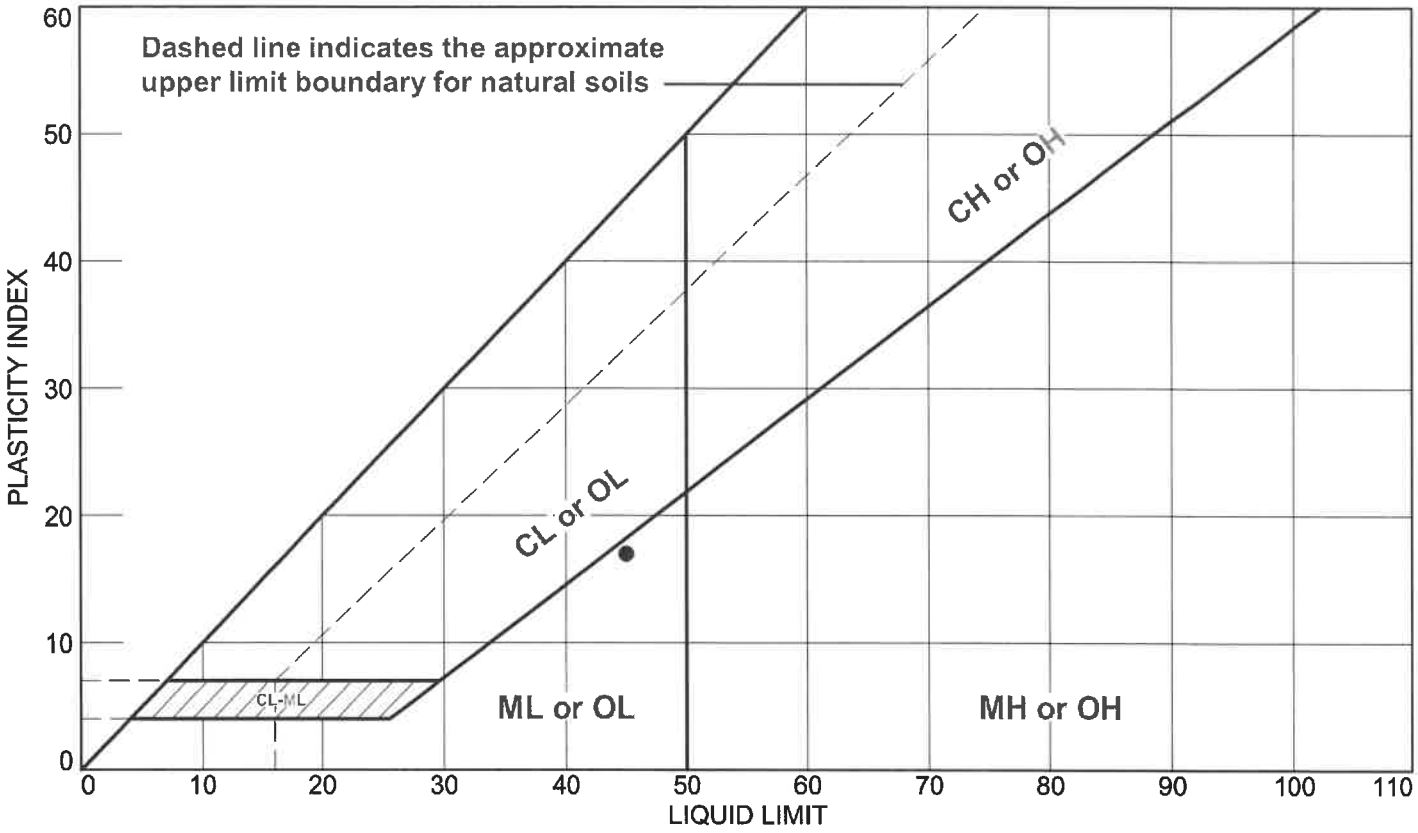
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	18.2	18.2	14.1	19.8	24.8	58.7			23.1

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
				0.1200	0.2384	0.5010	1.1358	4.2565	5.7753	8.5751	15.4759

Fineness Modulus
2.68

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	LIQUIDITY INDEX	USCS
●	AB-05	S2	5 ft.	36.6	28	45	17	0.5	ML

Hayre McElroy & Associates, LLC

Redmond, WA

Client: Aspect Consulting

Project: Project Peninsula Pivot Site
Project #NWG0010

Project No.: Lab #8892

Figure

Tested By: HL **Checked By:** JM

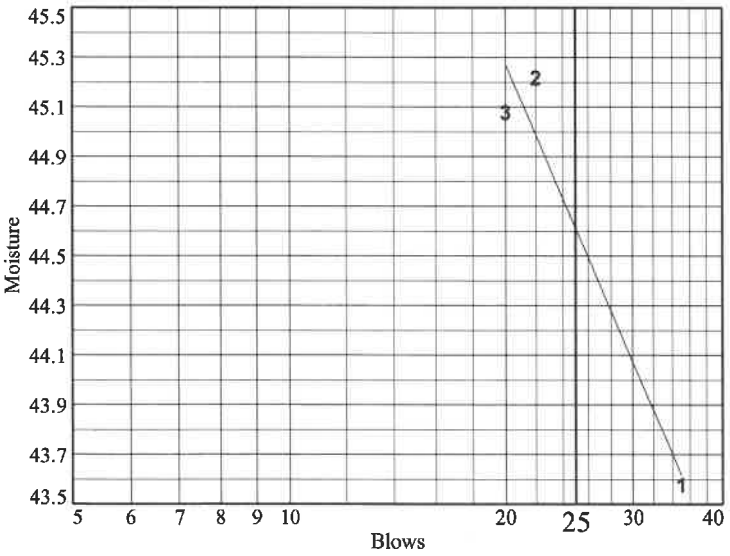
LIQUID AND PLASTIC LIMIT TEST DATA

3/11/2025

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project Number: Lab #8892
Location: AB-05
Depth: 5 ft. **Sample Number:** S2
Material Description: SILT
USCS: ML
Tested by: HL **Checked by:** JM

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare	34.47	39.39	37.32			
Dry+Tare	27.41	30.59	29.21			
Tare	11.21	11.13	11.22			
# Blows	35	22	20			
Moisture	43.6	45.2	45.1			



Liquid Limit= 45
Plastic Limit= 28
Plasticity Index= 17
Natural Moisture= 36.6
Liquidity Index= 0.5

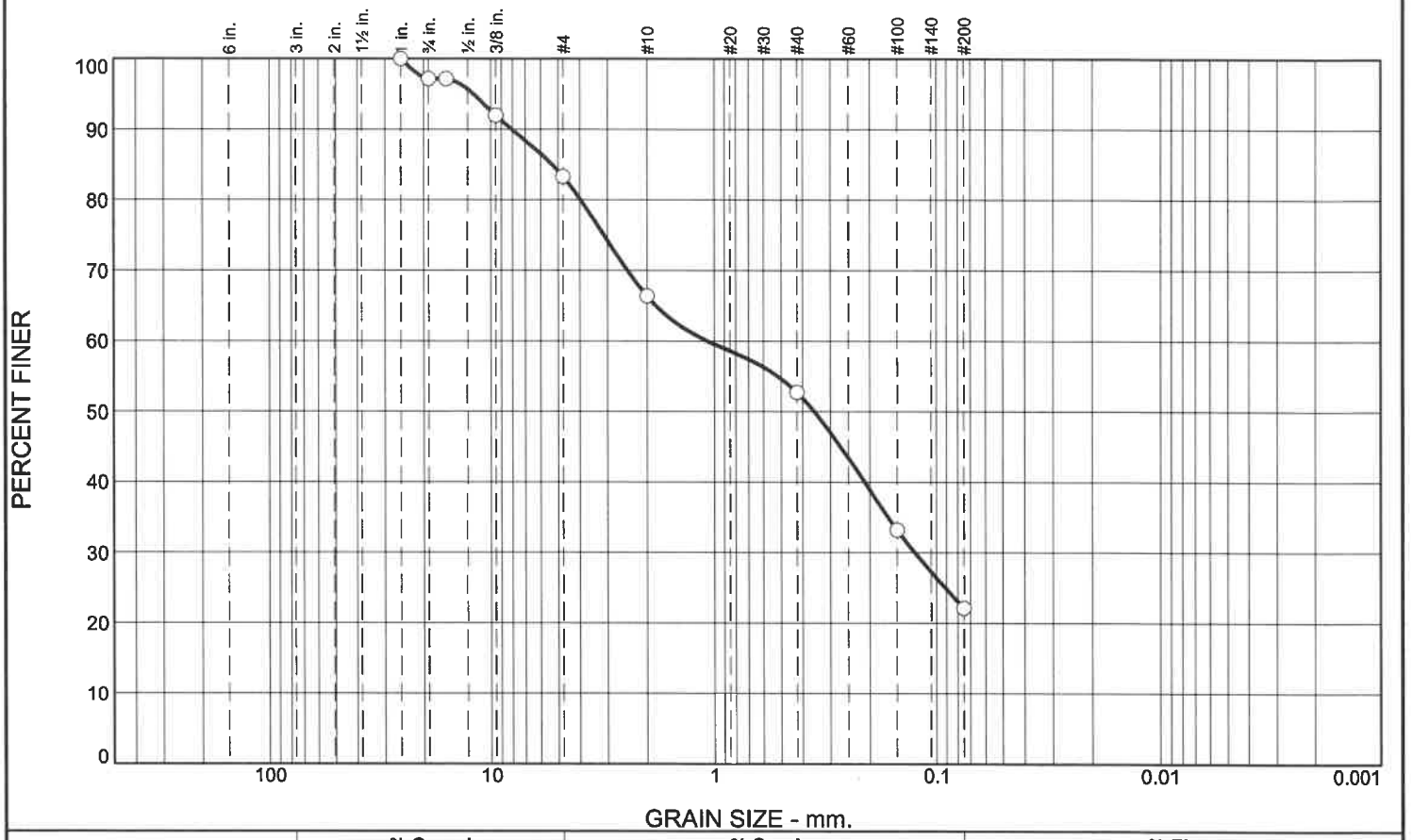
Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare	23.67	26.53			
Dry+Tare	20.94	23.15			
Tare	11.03	11.18			
Moisture	27.5	28.2			

Natural Moisture Data

Wet+Tare	Dry+Tare	Tare	Moisture
127.6	95.2	6.7	36.6

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.8	13.9	16.9	13.6	30.7	22.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	97.2		
5/8"	97.2		
3/8"	92.0		
#4	83.3		
#10	66.4		
#40	52.8		
#100	33.2		
#200	22.1		

* (no specification provided)

Soil Description

Silty SAND with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 8.0641 D_{85}= 5.3138 D_{60}= 1.0687
D_{50}= 0.3544 D_{30}= 0.1251 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO=

Remarks

MC - 12.0%

Source of Sample: AB-05 **Depth:** 20 ft.
Sample Number: S6

Date: 03/11/2025

Hayre McElroy & Associates, LLC

Redmond, WA

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project No: Lab #8892

Figure

Tested By: HL **Checked By:** JM

GRAIN SIZE DISTRIBUTION TEST DATA

3/11/2025

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project Number: Lab #8892
Location: AB-05
Depth: 20 ft. **Sample Number:** S6
Material Description: Silty SAND with gravel
Date: 03/11/2025
USCS Classification: SM
Testing Remarks: MC - 12.0%
Tested by: HL **Checked by:** JM

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 497.50
Tare Wt. = 12.90
Minus #200 from wash = 11.9%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
563.20	12.90	0.00	1"	0.00	100.0
			3/4"	15.40	97.2
			5/8"	15.40	97.2
			3/8"	44.00	92.0
			#4	91.90	83.3
			#10	184.90	66.4
			#40	260.00	52.8
			#100	367.60	33.2
			#200	428.50	22.1

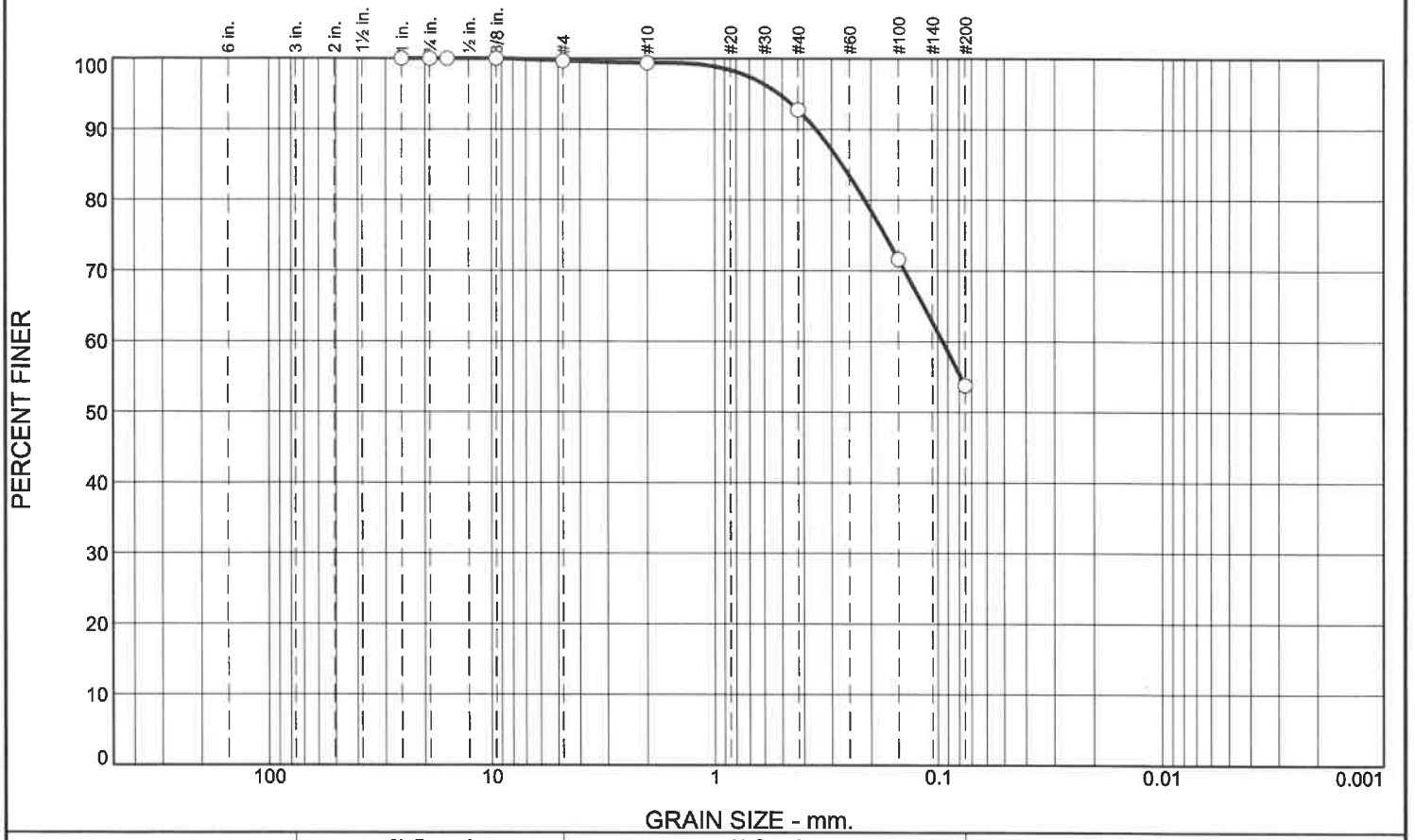
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	2.8	13.9	16.7	16.9	13.6	30.7	61.2			22.1

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
				0.1251	0.2113	0.3544	1.0687	3.9604	5.3138	8.0641	11.9515

Fineness Modulus
2.61

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.3	0.3	6.6	39.0	53.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	100.0		
5/8"	100.0		
3/8"	100.0		
#4	99.7		
#10	99.4		
#40	92.8		
#100	71.6		
#200	53.8		

* (no specification provided)

Soil Description

Sandy SILT

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.3528 D_{85}= 0.2690 D_{60}= 0.0952
D_{50}= D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= ML AASHTO=

Remarks

MC - 30.0%

Source of Sample: ATP-03 **Depth:** 4 ft.
Sample Number: S1

Date: 03/11/2025

Hayre McElroy & Associates, LLC

Redmond, WA

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project No: Lab #8892

Figure

Tested By: HL **Checked By:** JM

GRAIN SIZE DISTRIBUTION TEST DATA

3/11/2025

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project Number: Lab #8892
Location: ATP-03
Depth: 4 ft. **Sample Number:** S1
Material Description: Sandy SILT
Date: 03/11/2025
USCS Classification: ML
Testing Remarks: MC - 30.0%
Tested by: HL **Checked by:** JM

Sieve Test Data

Post #200 Wash Test Weights (grams): **Dry Sample and Tare =** 221.10
Tare Wt. = 16.60
Minus #200 from wash = 44.5%

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
384.87	16.60	0.00	1"	0.00	100.0
			3/4"	0.00	100.0
			5/8"	0.00	100.0
			3/8"	0.00	100.0
			#4	1.13	99.7
			#10	2.12	99.4
			#40	26.54	92.8
			#100	104.53	71.6
			#200	170.21	53.8

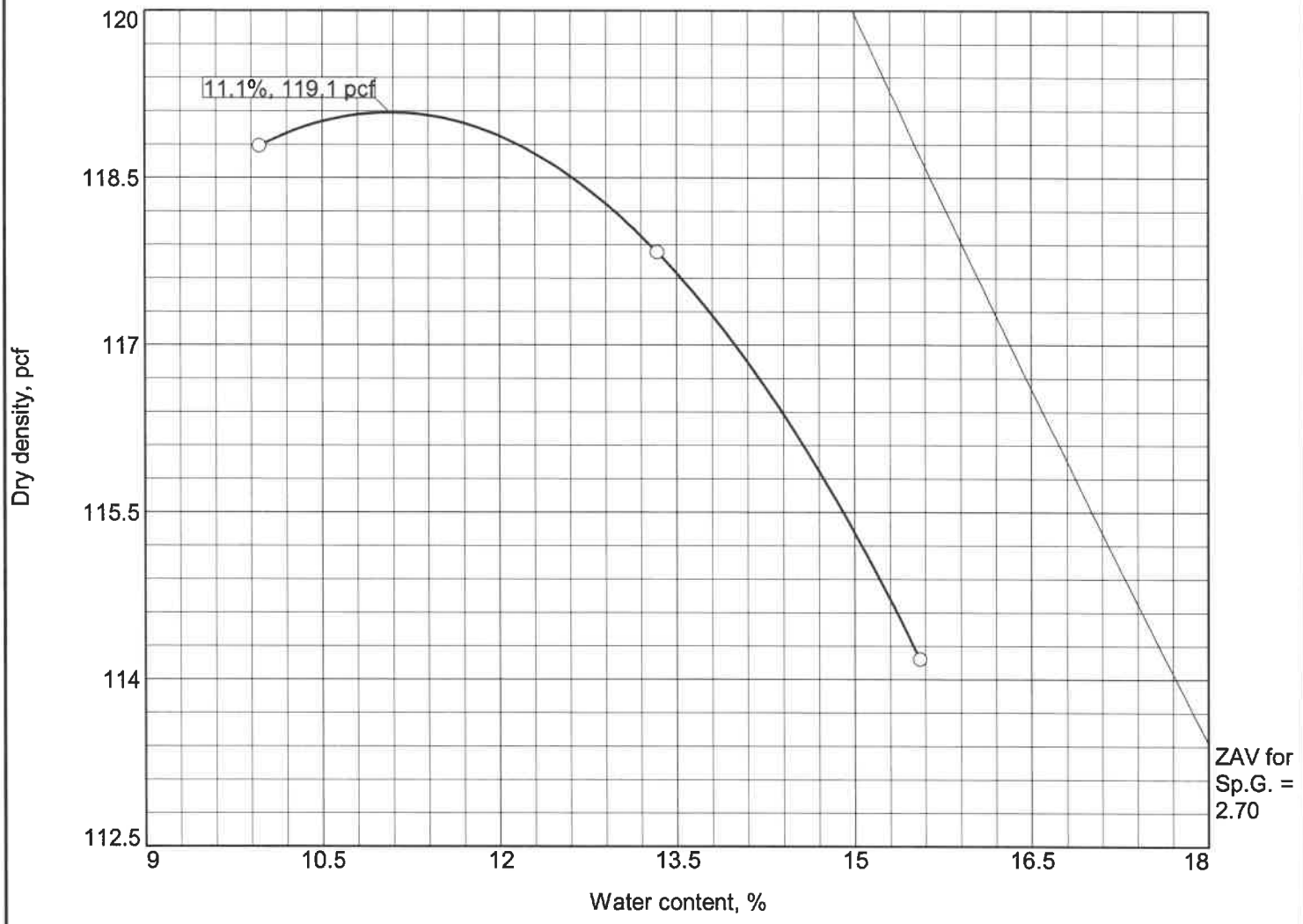
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.3	0.3	0.3	6.6	39.0	45.9			53.8

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
							0.0952	0.2132	0.2690	0.3528	0.5126

Fineness Modulus
0.46

COMPACTION TEST REPORT



Test specification: ASTM D 1557-91 Procedure B Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
4 ft.	ML		30.0%	2.7			0.0	53.8

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 119.1 pcf Optimum moisture = 11.1 %	Sandy SILT

Project No. Lab #8892 **Client:** Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
○ **Source of Sample:** ATP-03 **Sample Number:** S1

Hayre McElroy & Associates, LLC

Redmond, WA

Remarks:

Figure

Tested By: HL **Checked By:** JM

MOISTURE DENSITY TEST DATA

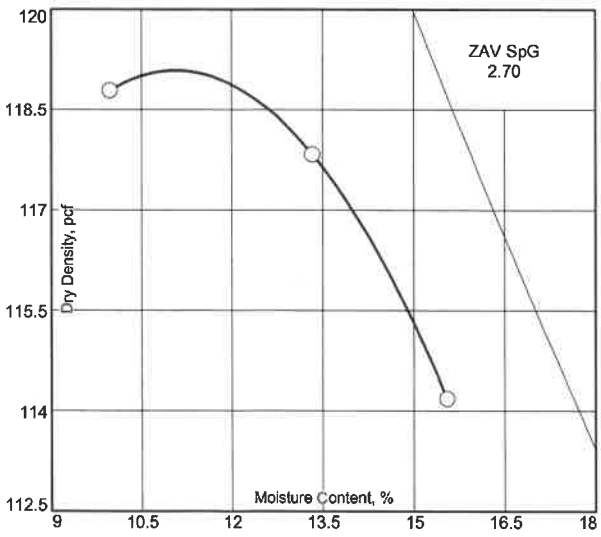
3/11/2025

Client: Aspect Consulting
Project: Project Peninsula Pivot Site
Project #NWG0010
Project Number: Lab #8892
Location: ATP-03
Depth: 4 ft.
Sample Number: S1
Description: Sandy SILT
USCS Classification: ML
Natural Moisture: 30.0%
Tested by: HL
Checked by: JM
Percent passing 3/8 in. sieve: 100.0

Test Data and Results

Test Specification:

Type of Test: ASTM D 1557-91 Procedure B Modified
Mold Dia: 4.00 **Hammer Wt.:** 10 lb. **Drop:** 18 in. **Layers:** five **Blows per Layer:** 25



Point No.	1	2	3
Wt. M+S	6218.8	6262.9	6238.6
Wt. M	4243.9	4243.9	4243.9
Wt. W+T	651.4	671.4	613.2
Wt. D+T	593.5	593.9	532.4
Tare	12.7	12.7	12.7
Moist.	10.0	13.3	15.6
Dry Den.	118.8	117.8	114.2

Test Results: **Max. Dry Den.=** 119.1 pcf **Opt. Moist.=** 11.1%

Aspect CONSULTING

Project name: Project Peninsula Pivot Site
Project #: NWG0010
#8892

Please send report to:
andy.holmson@aspectconsulting.com
chelsea.bush@aspectconsulting.com

Laboratory Testing Schedule

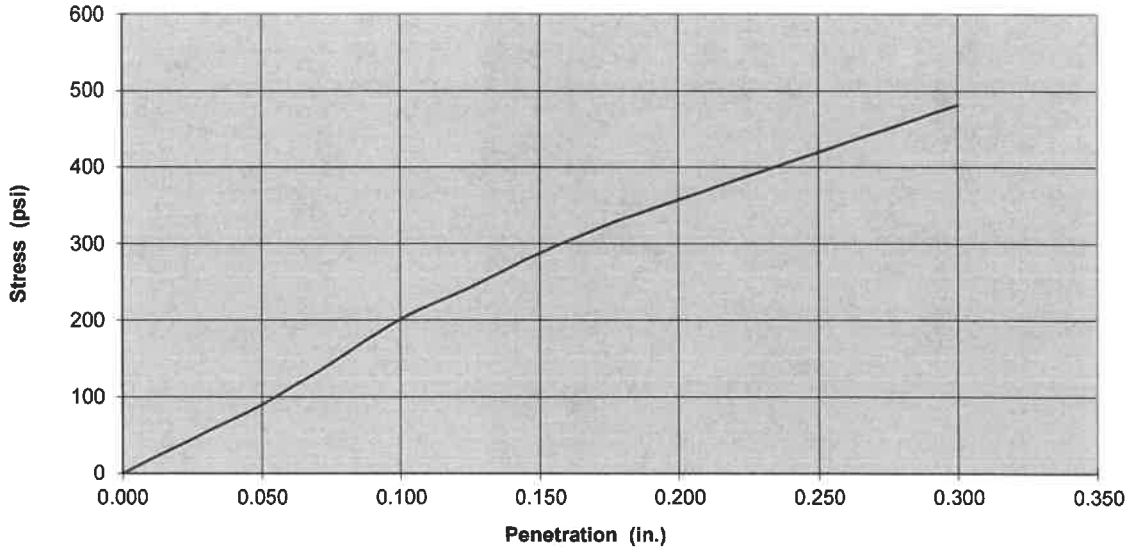
	Lab Test Procedure (ASTM)	Unit pricing from:	HMA 2025
GS	Sieve analysis and #200 wash (includes MC)		$125
AL	Atterberg limits (D4318)		$185
FC	minus No. 200 wash (D1140)		$95
MC	moisture content (D2216, D4643)		$25
CBR	CALIFORNIA BEARING RATIO (D1883)		$325
MP	MODIFIED PROCTOR (D1557)		$315

Boring	Sample	Depth (ft.)	Lab Tests	Line Total ($)	Test Notes
AB-01	S1	3	MC	25	
AB-01	S2	5	MC, FC	120	
AB-01	S3	7.5	MC	25	
AB-01	S4	10	MC, FC	120	
AB-01	S5	15	MC	25	
AB-01	S6	20	GS	125	
AB-02	S1	2.5	MC	25	
AB-02	S2	5	MC	25	
AB-02	S3	7.5	MC, FC	120	
AB-02	S4	10	MC,AL	210	
AB-02	S5	15	GS	125	
AB-03	S1	2.5	FC	95	
AB-03	S2	5	GS, MC	150	
AB-03	S3	7.5	MC	25	
AB-03	S4	10	FC, MC	120	
AB-03	S5	15	GS	125	
AB-03	S6	20	FC	95	
AB-04	S4	10	GS	125	
AB-05	S1	2.5	MC, FC	120	
AB-05	S2	5	MC, AL	210	
AB-05	S4	10	MC, FC	120	
AB-05	S6	20	GS	125	
ATP-01	S1	4	CBR	325	
ATP-02	S1	4	FC	95	
ATP-03	S1	4	MP	315	
ATP-05	S1	4	CBR, MC, FC	445	
ATP-10	S1	5	FC, MC	120	

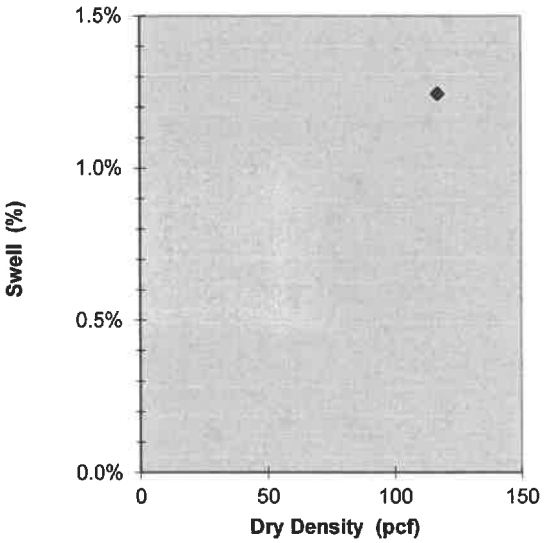
Test	No. of samples per test	Subtotal		
GS	6	$750		
AL	2	$370	ORDER SUBMITTED ON:	2/18/2025
FC	11	$1,045		
CBR	2	$650	RESULTS REQUESTED BY:	ASAP
MC	6			
MP	1			
TOTAL:	**27 samples**	**$3,555**		

710 2nd Ave, Suite 550
Seattle, Washington, 98104

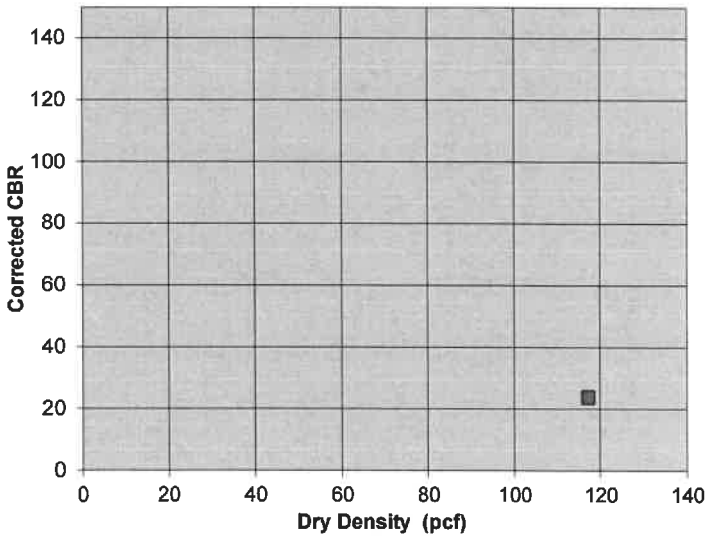
Corrected Load Penetration Curves



Swell



Dry Density vs Corr. CBR



Max Swell (%) =	1.2%	
Moisture (%) =	14.5%	Initial
Moisture (%) =	17.4%	After Penetration

CBR	
0.10 in	**20.2**
0.20 in	**23.8**

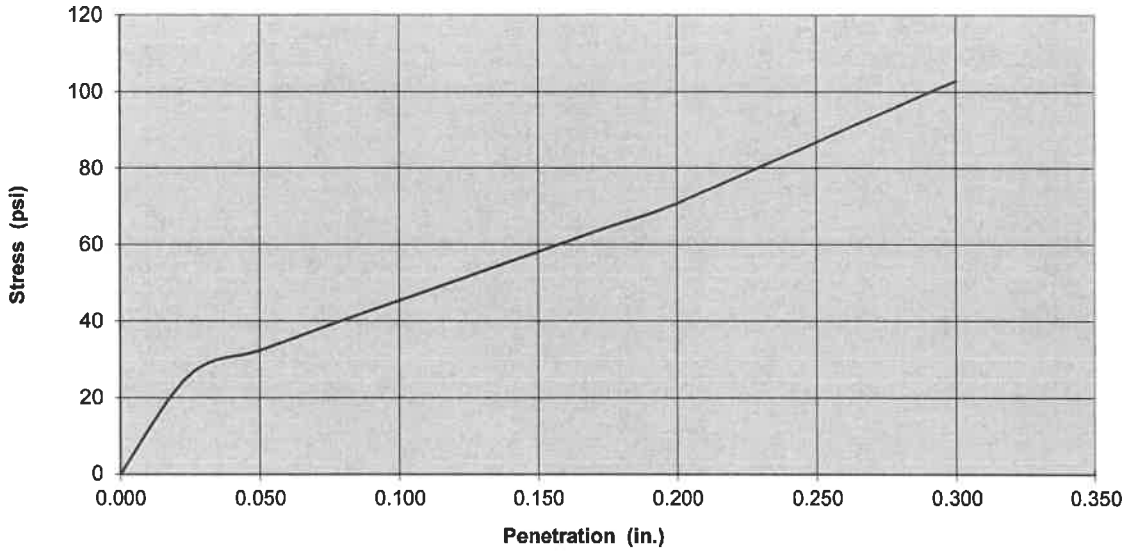
TEST PIT	SAMPLE DEPTH	USCS	SOIL DESCRIPTION
ATP-01		N/A	N/A

ASTM D 1883

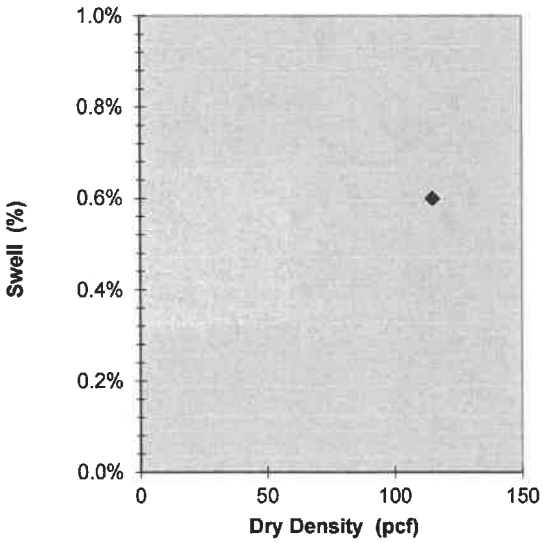
HayreMcElroy & Associates 2045 Lauwiliwili St, Suite 1301 Kapolei, HI 96707	**California Bearing Ratio** **Aspect Consulting** Peninsula Pivot Site	Sample # **S1**

Project Number	Technician	Approved	Date	Revised	Sampled Date
Lab#8892	JI	M. Lagazo	03/19/25		N/A

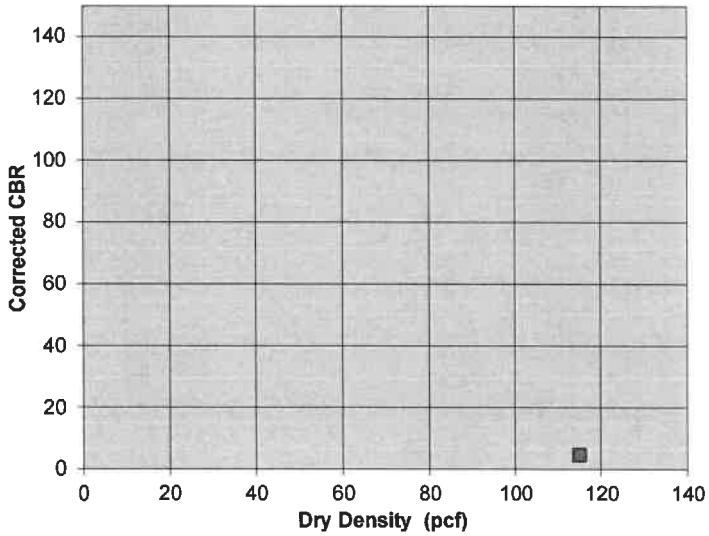
Corrected Load Penetration Curves



Swell



Dry Density vs Corr. CBR



Max Swell (%) =	0.6%	
Moisture (%) =	15.5%	Initial
Moisture (%) =	17.3%	After Penetration

CBR	
0.10 in	**4.5**
0.20 in	**4.7**

TEST PIT	SAMPLE DEPTH	USCS	SOIL DESCRIPTION
ATP-05		N/A	N/A

ASTM D 1883

HayreMcElroy & Associates 2045 Lauwiliwili St, Suite 1301 Kapolei, HI 96707	**California Bearing Ratio** **Aspect Consulting** Peninsula Pivot Site	Sample # **S1**

Project Number	Technician	Approved	Date	Revised	Sampled Date
Lab#8892	JI	M. Lagazo	03/19/25		N/A

APPENDIX C

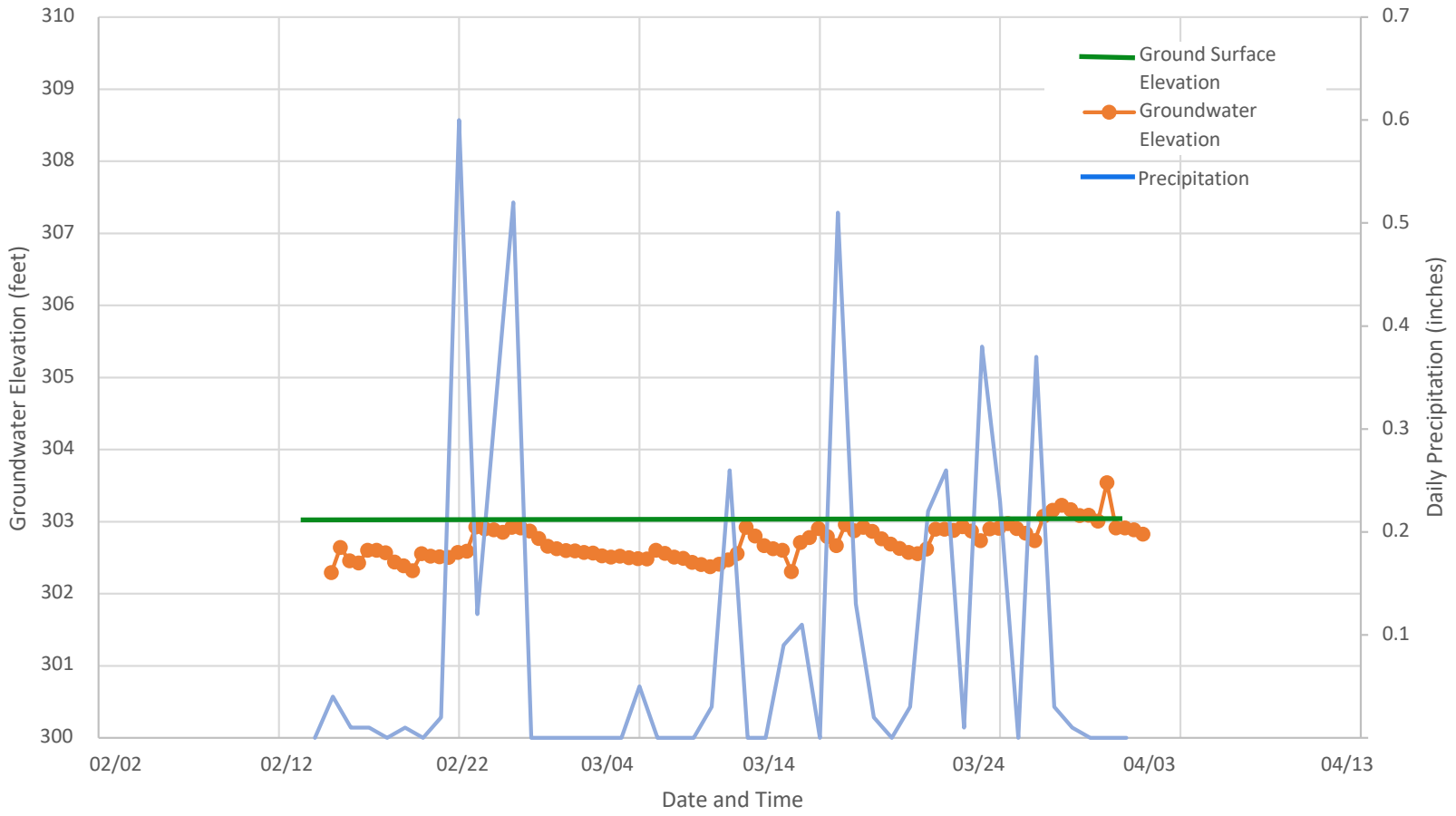
Groundwater Monitoring

C. Groundwater Monitoring

We monitored groundwater levels using a pressure transducer installed at 14.5 feet bgs in AB-03/AMW-01 in the location shown on Figure 2. Groundwater readings were taken on 12-hour intervals from February 14 to April 1, 2025.

We compared groundwater fluctuations and trends to rainfall data from a nearby weather station at Fairchild Airport. Groundwater monitoring data and comparison to rainfall for AB-03/AMW-01 is presented in the attached Figure C-1. Instances where groundwater levels appear to rise above the ground surface may be due to a combination of factors such as

- temporary standing water conditions at the Site,
- short-term inundation of the monitoring well monument, and
- minor differences in the assumed ground surface elevation and/or barometric data from the Fairchild Airport weather station.



Notes:

1. Groundwater data recorded every 12 hours using pressure transducer from 2/14/2025 to 3/31/2025.
2. Barometric pressure readings from Port Angeles Fairchild Airport weathered station - GHCND:USW00094266 https://www.ncei.noaa.gov/cdo-web/results
3. Daily precipitation data from Port Angeles Fairchild Airport weather station - GHCND:USW00094266 https://www.ncei.noaa.gov/cdo-web/results

AB-03/AMW-01 Groundwater Monitoring
Project Peninsula
Port Angeles, Washington

Project No.:	Analysis By / Reviewed By:	Updated:
NWG0010	CB/ AJH	4/8/2025

Aspect CONSULTING

Figure C-1

APPENDIX D

Report Limitations and Guidelines for Use

REPORT LIMITATIONS AND GUIDELINES FOR USE

Geoscience is Not Exact

The geoscience practices (geotechnical engineering, geology, and environmental science) are far less exact than other engineering and natural science disciplines. It is important to recognize this limitation in evaluating the content of the report. If you are unclear how these "Report Limitations and Guidelines for Use" apply to your project or property, you should contact Aspect Consulting (Aspect).

This Report and Project-Specific Factors

Aspect's services are designed to meet the specific needs of our clients. Aspect has performed the services in general accordance with our agreement (the Agreement) with the Client (defined under the Limitations section of this project's work product). This report has been prepared for the exclusive use of the Client. This report should not be applied for any purpose or project except the purpose described in the Agreement.

Aspect considered many unique, project-specific factors when establishing the Scope of Work for this project and report. You should not rely on this report if it was:

- Not prepared for you;
- Not prepared for the specific purpose identified in the Agreement;
- Not prepared for the specific subject property assessed; or
- Completed before important changes occurred concerning the subject property, project, or governmental regulatory actions.

If changes are made to the project or subject property after the date of this report, Aspect should be retained to assess the impact of the changes with respect to the conclusions contained in the report.

Reliance Conditions for Third Parties

This report was prepared for the exclusive use of the Client. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm with reasonable protection against liability claims by third parties with whom there would otherwise be no contractual limitations. Within the limitations of scope, schedule, and budget, our services have been executed in accordance with our Agreement with the Client and recognized geoscience practices in the same locality and involving similar conditions at the time this report was prepared

Property Conditions Change Over Time

This report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by events such as a change in property use or occupancy, or by natural events, such as floods,

earthquakes, slope instability, or groundwater fluctuations. If any of the described events may have occurred following the issuance of the report, you should contact Aspect so that we may evaluate whether changed conditions affect the continued reliability or applicability of our conclusions and recommendations.

Geotechnical, Geologic, and Environmental Reports Are Not Interchangeable

The equipment, techniques, and personnel used to perform a geotechnical or geologic study differ significantly from those used to perform an environmental study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually address any environmental findings, conclusions, or recommendations (e.g., about the likelihood of encountering underground storage tanks or regulated contaminants). Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding the subject property.

We appreciate the opportunity to perform these services. If you have any questions please contact the Aspect Project Manager for this project.

Critical Areas Report

Project Peninsula
Port Angeles, WA

Prepared for:
CESO Inc
800 Bursca Drive, Suite 803
Bridgeville, Pennsylvania 15017

April 28, 2025
PBS Project 25005744

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APPENDICES

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Appendix B: Wetland Determination Forms
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1 INTRODUCTION

PBS Engineering and Environmental Inc. (PBS) was contracted by CESO Inc. (Client) to conduct a critical areas assessment as part of the proposed development of an industrial zoned parcel (073012120075) located in the City of Port Angeles (City). The project site is bordered by W. Edgewood Drive to the south, Critchfield Road to the east and north, and Dry Creek to the West (Figure 1). The 25.55-acre site consists of mostly undeveloped land and Dry Creek, a Type 3 fish-bearing stream. Dry Creek is bordered by a wooded area, with steeper banks that slope upward to the eastern portion of the property, which is mostly flat.

Throughout the course of the field delineation efforts, two palustrine emergent wetlands were delineated on the southeastern portion of the site. It should be noted that the wetland boundaries described in this report are PBS' best professional opinion based on the circumstances and site conditions encountered at the time of this study. The final determination of the wetland boundary, classification, and required buffer(s) will be made by local, state, and federal jurisdictions. The methods and results of the completed delineation in addition to a summary of jurisdictional considerations are detailed below.

2 PREPARERS

The background investigation and report were prepared by PBS Senior Scientist David Steiner. Mr. Steiner has 26 years of experience as a habitat biologist in the Pacific Northwest conducting critical areas functional assessments including wetland and stream delineation, aquatic and terrestrial habitat characterization, water quality assessment, and habitat mitigation planning and implementation. The field investigation was conducted by PBS' Senior Scientist Rob Fritz. Mr. Fritz has over 25 years of experience as a fisheries biologist in the Pacific Northwest conducting critical areas functional assessments including wetland and stream delineation.

3 METHODS

Wetland boundaries were delineated using the routine approach of the US Army Corps of Engineers (USACE) *Wetlands Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys and Coast Supplement* (Version 2.0) (Supplement) (USACE, 2010). Soils, vegetation, and indicators of hydrology were recorded at four sample plot locations on standard wetland determination data forms (Appendix B). Wetland plant ratings were assigned based on the *2016 National Wetland Plant List* (Lichvar et al., 2016). No modification of the standard methodologies was necessary during the delineation. Wetland boundaries and sample plot locations were recorded in the field using a Trimble DA2 handheld GPS unit with an accuracy of ±2 feet. The wetlands documented during the field study were rated using the *Washington State Wetland Rating System for Western Washington 2014 Update* (Hruby, 2014). The Wetland Rating Form and attendant graphics are included in Appendix C.

The following information was reviewed prior to the field study:

- United State Geological Survey (USGS) contour maps (Figure 2)
- Natural Resources Conservation Service (NRCS) Web Soil Survey (2025) soils map of the study area (Figure 3)
- US Fish and Wildlife Service (USFWS) National Wetlands Inventory (2025), wetland polygons (Figure 4)
- Current and historic aerial photographs (Google Earth, 2025)
- Washington Department of Fish and Wildlife (WDFW) Priority Habitats and Species on the Web (2025)

4 BACKGROUND INFORMATION

4.1 Geographic Location

The project site is located within a rural area that is zoned for future industrial land use as part of the City's western Urban Growth Area. The surrounding land uses include rural residential, commercial, industrial, open space and natural area. The project area is located with the Dry Creek sub-basin, a small watershed located on the west side of Port Angeles that drains the north side of the foothills of the Elwha River at its headwaters south of Highway 101. Historically, much of the urbanized eastern portion of the Dry Creek subbasin has been modified and filled to accommodate industrial land use and for development of the Airport.

4.2 Topography

Downstream, north of Highway 101, where the study area is located, Dry Creek flows across a broad low elevation glacial outwash plain. The topography of the project area is essentially flat except for portions of the site that have been subject to past grading and filling (Figure 2). There are two storm water ponds that have been constructed, one in the western portion of the site near the existing stream buffer, and the other on the northern boundary of the site near Critchfield Rd.

4.3 Previous Disturbance

Google earth historic aerial images were reviewed to determine if any significant land use activities have occurred on the site in recent history that may have affected critical areas including Dry Creek and any potential wetlands. Prior land use onsite dating back to 2000 (Figure 3) shows that the property was undeveloped and the large open area east of the stream corridor may have been utilized as pastureland. In 2017, predevelopment grading and filling activities occurred on the site including construction of entry access roads, two storm water retention ponds and two earthen berms on the southwest portion of the site near Dry Creek, and along the eastern edge of the property (Figures 4 and 5).

4.4 Soils

According to the NRCS (2024a), there are two soil mapping units shown within the project area (Figure 6). One of the two is listed as hydric soil. Descriptions of the soil units as generated by the NRCS are found below:

4—Bellingham silty clay loam, 0 to 3% slopes

The Bellingham component makes up to 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on terraces. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 80 inches. The natural drainage class is poorly drained. Water movement in the restrictive layer is moderately low to moderately high. Available water to a depth of 60inches (or restricted depth) is very high. Shrink swell potential is low. The soil is not flooded. It is not ponded. This soil does meet hydric criteria.

12—Clallam gravelly sandy loam, 0 to 15% slopes

The Clallam component makes up 85 percent of the map unit. Slopes are 0 to 15 percent. This component is on hillslopes, hills. The parent material consists of till. Depth to a root restrictive layer, densic material, is 20 to 40 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. This soil does not meet hydric criteria

4.5 Environmentally Sensitive Areas

4.5.1 Streams/Stream Corridors

Dry Creek, an independent tributary stream to the Strait of Juan De Fuca flows north along the western boundary of the study area. Surface water streams, stream corridors, and their buffers are protected as an Environmentally Sensitive Area under City of Port Angeles Municipal Code 15.20.070. Clallam County and City of Port Angeles critical areas information identifies Dry Creek as a Type 3 fish bearing stream per state water type definitions under WAC 22-16-220 and 030.

Fish species that have been documented in Dry Creek include coho salmon (*Oncorhynchus kisutch*), winter steelhead [Puget Sound Distinct Population Segment (DPS)] (*Oncorhynchus tshawytscha*), fall chum salmon (*Oncorhynchus keta*) sea-run and resident cutthroat trout (*Oncorhynchus clarkia*). However, there is a known natural gradient barrier located on Dry Creek further downstream at approximately river mile .8 that prevents anadromous species from accessing and utilizing the project reach and study area.

4.5.2 Wetlands

The USFWS NWI maps were reviewed to determine if there are mapped wetlands within or adjacent to the study area (USFWS, 2025). The NWI maps shows one wetland within the study area and another wetland on the adjacent parcel approximately 350 feet to the north (Figure 7). The wetland on the project site is classified as R4SBC (riverine, intermittent, stream bed, seasonally flooded). This wetland exists as Dry Creek. The adjacent wetland to the north is classified as PSS1C (palustrine, shrub-scrub, broad leaved deciduous, seasonally flooded). Wetlands and their buffers are subject to protection under the Wetlands Protection section of the City of Port Angeles Municipal Code (PAMC 15.24).

It should be noted that NWI maps are created through aerial photograph interpretation and are not meant to represent the extent of jurisdictional wetlands.

4.5.3 Priority Habitats and Species

The Washington Department of Fish and Wildlife (WDFW) identifies the priority species that are indicated in Table 1 as potentially occurring within the project study area. In addition, riparian habitat associated with the Dry Creek corridor is designated as a priority ecosystem by WDFW and regulated as an Environmentally Sensitive Area under City of Port Angeles Municipal Code (PAMC 15.20).

Table 1. WDFW Priority Species

Common Name	Scientific Name	Conservation Listing Status
Cutthroat Trout	*Oncorhynchus clarkii*	Not Listed
Little Brown Bat	*Myotis lucifugus*	Not Listed
Northern Spotted Owl	*Strix occidentalis*	Federal - Threatened State - Endangered
Townsend's Big-Eared Bat	*Corynorhinus townsendii*	State - Candidate
Yuma Myotis	*Myotis yumanensis*	Not Listed

Note: None of these species were directly observed during the site visit.

4.6 Hydrology

Climate records were downloaded and reviewed prior to completion of the on-site field visit. The closest Climate Analysis for Wetlands (WETS) climate station with a similar elevation as the study area is the Port Angeles Fairchild International Airport, Washington station (NRCS, 2024b). Table 2 presents precipitation recorded for the three months prior to the delineation site visit.

Table 2. WETS DATA

Prior Month	WETS Rainfall Percentile (in.)		Measured Rainfall (in.)	Condition: Dry, Wet, Normal	Condition Value:	Month Weight	Multiply Previous Two Columns
	30th	70th			(1=dry, 2=normal, or 3=wet)		
February	1.26	3.28	2.06	Normal	2	3	6
January	3.05	5.08	0.67	Dry	1	2	2
December	3.05	5.38	3.78	Normal	2	1	2
						Sum	**10**
Rainfall of prior period was: **drier** than normal (sum is 6–9), **normal** (sum is 10–14), **wetter** than normal (sum is 15–18).							**Normal**

WETS Station: Port Angeles Fairchild intl. AP, WA, Range 1991–2021
Measured Rainfall: Port Angeles Fairchild intl. AP December 2024- February 2025
Data From: http://agacis.rcc-acis.org/?fips=53009

5 SITE INVESTIGATION

Onsite stream and wetland delineation fieldwork was completed on March 24, 2025. Precipitation recorded for the 14 days prior to the site visit was 1.76 inches. The field efforts focused on verifying the eastern boundary of Dry Creek, assessing the functional habitat condition within the stream corridor, and identification of any wetlands throughout the remainder of the site.

5.1 Streams/Stream Corridors

Dry Creek, an independent tributary stream to the Strait of Juan De Fuca, flows north along the western boundary of the study area. The stream reach on the subject property starts just downstream of an existing steel and concrete bridge on W Edgewood Drive, then flows for approximately 1,700 feet onto an adjacent parcel near Critchfield Road. As described in Table 1, only resident cutthroat trout are present in the project reach. Anadromous salmon and trout species are unable to access the project reach due to a natural gradient fish passage barrier further downstream.

The existing vegetated riparian buffer along Dry Creek within the study area is relatively intact and ranges from 60 to 75 feet wide. Existing streamside vegetation consists of an overstory of mixed coniferous and deciduous trees and an understory of shrub and groundcover species. Native tree/shrub/groundcover species that were observed include bigleaf maple (*Acer macrophyllum*), red alder (*Alnus rubra*), red osier dogwood (*Cornus sericea*), Indian plum (*Oemleria cerasiformis*) salmonberry (*Rubus spectabilis*), wild rose (*Rosa spp*.), willow (*Salix*

spp.), western red cedar (*Thuja plicata*), Sitka spruce (*Picea sitchensis*), douglas fir (*Pseudotsuga menziesii)*, sword fern (*Polystichum munitum*), and common horsetail (*Equisetum arvense*). Non-native invasive plant species found within the stream corridor include Himalayan blackberry (*Rubus armeniacus*), English holly (*Ilex aquifolium*) and English ivy (*Hedera helix*). There is a high density of non-native Himalayan blackberry along the stream banks from the northern boundary to the middle stream reach on the property. The southern portion of the stream buffer is largely clear of Himalayan blackberry.

There were higher streamflow conditions during the site investigation. The average bank full width measured was approximately 16 feet and the wetted width was approximately 12 feet. The ordinary high-water mark (OHWM) was delineated in several locations along the right bank (eastern side of the stream) to help verify an accurate stream buffer width. Streambed sediment composition observed consisted of a mix of gravel, cobble, and fine sediment. Mayfly (*Hexagenia sp.*) larvae, which are sensitive to water pollution, were observed just downstream of the bridge crossing at W. Edgewood Drive, which is an indicator of good water quality.

One of the two previously constructed stormwater detention basins is adjacent to the outer edge of the existing 75-foot-wide stream buffer. This retention basin was observed to have both an inflow and an outflow pipe. The pond contains cattails and is providing potential bird and insect habitat. Photographs of the stream corridor conditions found onsite are included on the photo log in Appendix A.

5.2 Wetlands

Outside of the existing stream and stream buffer, the study area consists of an open field area with mostly disturbed and compacted soils. Predominant vegetation in the open area consists of field grass (lolium spp.), reed canary grass (*Phalaris arundinacea*) Douglas spirea (*Spirea douglasii*), wild swamp rose (*Rosa pisocarpa*.), and clusters of common rush (*Juncus effusus),* which is a wetland emergent species.

During the site investigation, two small palustrine emergent depressional wetlands (A and B) totaling 26,252 sq. feet or 0.60 acres were identified on the southeast portion of the property (Figure 8). Wetlands A and B were delineated based on criteria for all three wetland indicators, soils, hydrology, and vegetation. No surface water flow connection was observed between the two wetlands and Dry Creek.

Wetland sample plots taken had a depth of refusal due to a hardpan rock layer at 16 inches. The ponding observed is likely affected by the previous grading, filling and ground compaction that occurred from the utilization of heavy machinery. There is also more recent disturbance in one of the wetlands where a soil boring drill rig got stuck.

Photographs of these areas are included in the photo log in Appendix A. Completed wetland delineation field forms are included in Appendix B.

5.2.1 Wetland Ratings

The Washington State Wetland Rating System for Western Washington was utilized to rate Wetlands A and B. The completed rating forms and attendant graphics are included in Appendix C. Table 3 summarizes the scoring of the individual wetlands.

Table 3. Wetland Rating Summary

Wetland Name	Water Quality Score	Hydrologic Score	Habitat Score	Total (rating)
Wetland A	3	0	2	5
Wetland B	3	0	2	5

5.3 Priority Habitats and Species

Besides resident cutthroat trout, no direct observations or evidence of utilization of the priority species listed in Table 1 was made within the study area during the site investigation. Resident cutthroat trout are known to utilize the project area.

- **Northern Spotted Owl**
  Formerly widespread and common in western Washington, the northern spotted owl is now rare throughout Washington and no longer breeds in Puget lowland areas. Northern spotted owls are known to inhabit mid to late seral mature coniferous forests with dense canopy, a mix of tree age and size classes, a high volume of downed wood, and decaying wood and snags. Given their extreme population decline, and the lack of suitable habitat within the project area, it is very unlikely that northern spotted owl is present within the study area.

- **Little Brown Bat**
  The little brown bat species is known to occur throughout Washington State and utilizes a broad range of ecosystems including riparian areas with conifers and hardwood trees, forest edges, sites with open water, and urban areas. Based on specific habitat preferences and known geographic distribution, the little brown bat species could potentially utilize the project area for foraging and roosting opportunities.

- **Yuma Myotis**
  Yuma myotis are widely distributed in Washington and are considered common at some sites on the Olympic Peninsula and in the western Washington lowlands. Yuma myotis are found at low elevations and are known to utilize riparian areas, moist and dry forests, and are closely associated with rivers, streams, ponds, and lakes. Based on specific habitat preferences and known distribution, Yuma myotis may potentially utilize the project area for foraging and roosting opportunities.

- **Townsend's Big Eared Bat**
  In Washington, the Townsend's big eared bat species is found in westside lowland conifer-hardwood forest, riparian areas, wetlands and open fields. They prefer to roost in caves, abandoned mines, bunkers, tunnels, bridges, and buildings. Townsend's big eared bat species occur at lower densities across their range and their population level is considered relatively small. Based on specific habitat preferences and known distribution, Townsend's big eared bat could potentially utilize the project area for foraging purposes.

The proposed industrial development should follow WDFW conservation management recommendations for each of the listed species and implement appropriate mitigation measures to avoid or minimize impacts to priority species and habitats within the project site and area.

6 SUMMARY

PBS completed a stream and wetland delineation for the Project Peninsula project located within the City of Port Angeles, Washington. Two palustrine emergent wetlands (Wetlands A and B) were identified, and a known Type-3 stream (Dry Creek) was assessed during the site investigation. Based on the City's development code requirements, the wetlands have a designated buffer of 50 feet and Dry Creek has a designated buffer of 75 feet. The existing stormwater detention ponds that are adjacent to the wetlands and Type 3 stream (shown in Figure 8) are not subject to regulatory buffer requirements. These critical areas would be regulated by federal, state, and local jurisdictions under the applicable guidance. As such, prior authorization would be required prior to completing development activities on the site that could directly or indirectly impact these areas. In preliminary consultation with the City of Port Angeles, they have indicated that the two identified wetlands were artificially formed due to the previous site grading and filling activities.

7 DISCLAIMER

This report is based on observations of vegetation, soils, and hydrology at the time of the study. Changing environmental conditions or human activities may alter those parameters which may change the conclusions presented in this report. The conclusions in this report represent the investigator's interpretation of the specified technical manuals and best available science and may not correspond with observations or conclusions of others, including government agencies.

This report was prepared to meet current local, state, and federal regulations. PBS is not responsible for changes made to regulations and reporting requirements after the report has been completed. Final authority regarding jurisdiction and permitting requirements rests with the appropriate federal, state, and local agencies.

This report is for the exclusive use of the Client for design of the development and is not to be relied upon by other parties. It is not to be photographed, photocopied, or similarly reproduced, in total or in part, without the expressed written consent of the Client and PBS.

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Figures

SOURCE: LAYOUT METADATA CREDITS

PREPARED FOR: CESO, Inc.

LOCATION MAP

PROJECT PENINSULA
CITY OF PORT ANGELES, WASHINGTON

MARCH 2025

FIGURE
1

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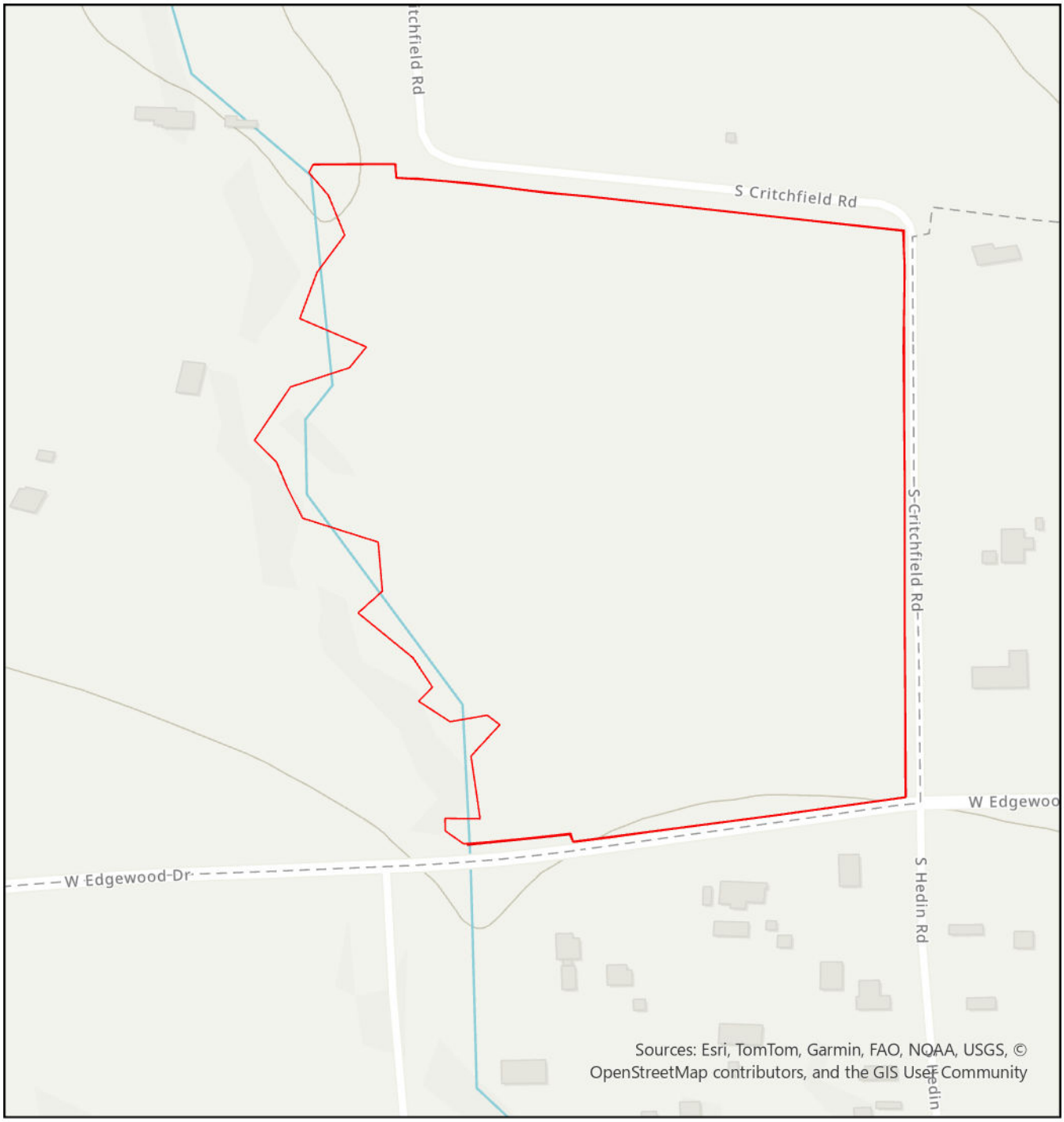

SOURCE: LAYOUT METADATA CREDITS

Legend

Study Area

0 100 200 400 600 800 Feet

PREPARED FOR: CESO, Inc.

TOPOGRAPHIC MAP

PROJECT PENINSULA
CITY OF PORT ANGELES, WASHINGTON

MARCH 2025

FIGURE
2

Filename: Z:\GIS_Repository\PBS\PAAgain.aprx Plot Date/Time: 4/22/2025 4:04 PM

SOURCE: LAYOUT METADATA CREDITS

PREPARED FOR: CESO, Inc.

2000 AERIAL PHOTO

PROJECT PENINSULA
CITY OF PORT ANGELES, WASHINGTON

MARCH 2025

FIGURE
3

Filename: Z:\GIS_Repository\PBS\PAAgain.aprx Plot Date/Time: 4/22/2025 5:59 PM

SOURCE: LAYOUT METADATA CREDITS

PREPARED FOR: CESO, Inc.

2017 AERIAL PHOTO

PROJECT PENINSULA
CITY OF PORT ANGELES, WASHINGTON

MARCH 2025

FIGURE
4

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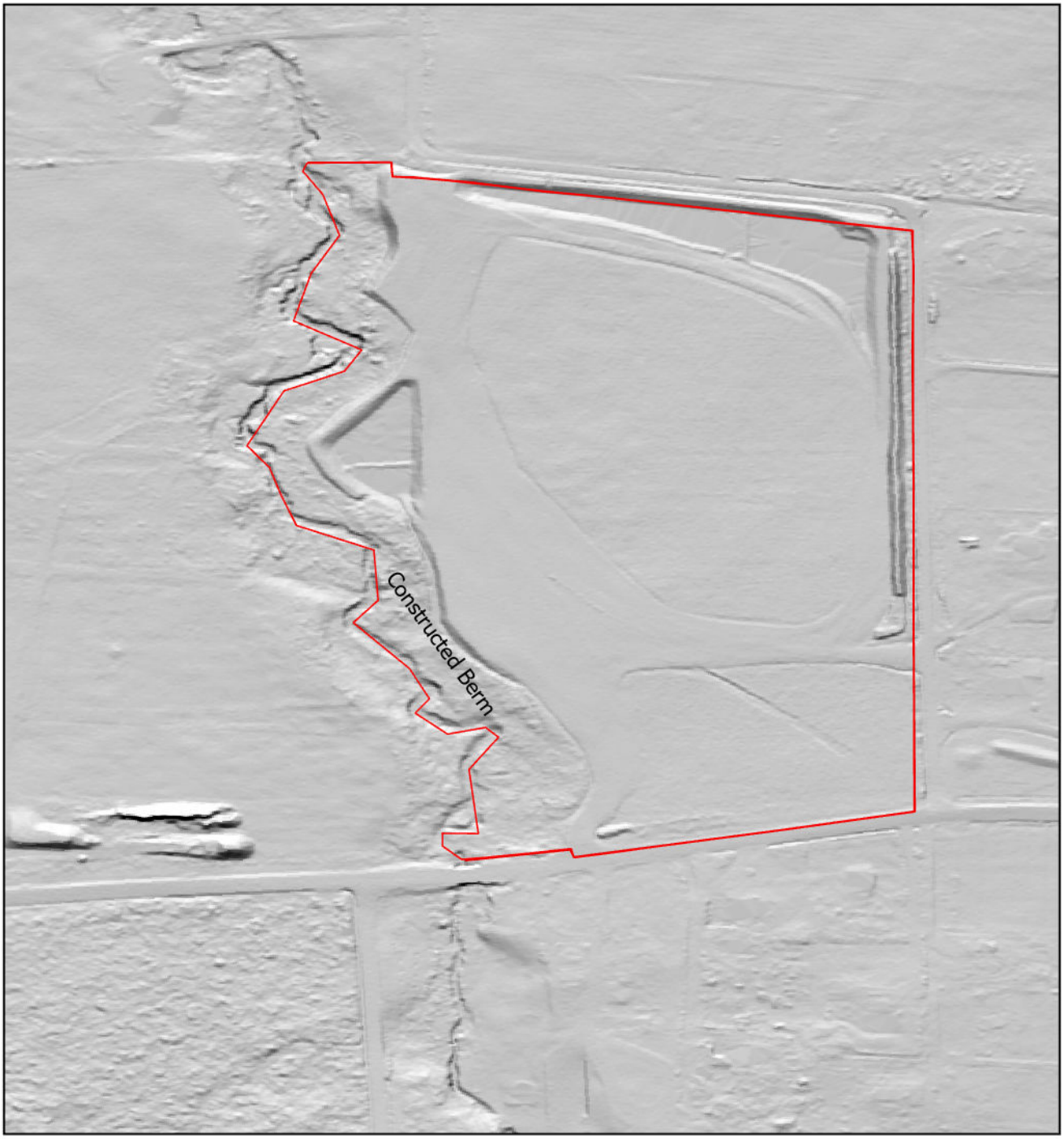


SOURCE: LAYOUT METADATA CREDITS

Legend

Study Area

LIDAR Hillshade

Value

254

0

0 100 200 400 600 800

Feet

PREPARED FOR: CESO, Inc.

PBS

LIDAR MAP

PROJECT PENINSULA

CITY OF PORT ANGELES, WASHINGTON

MARCH 2025

FIGURE

5

Filename: Z:\GIS_Repository\PBS\PAAgain.aprx Plot Date/Time: 4/22/2025 4:06 PM

Legend

4: Bellingham silty clay loam
12: Clallam gravelly sandy loam, 0 to 15 percent slopes

N

PREPARED FOR CESO, INC.

PBS

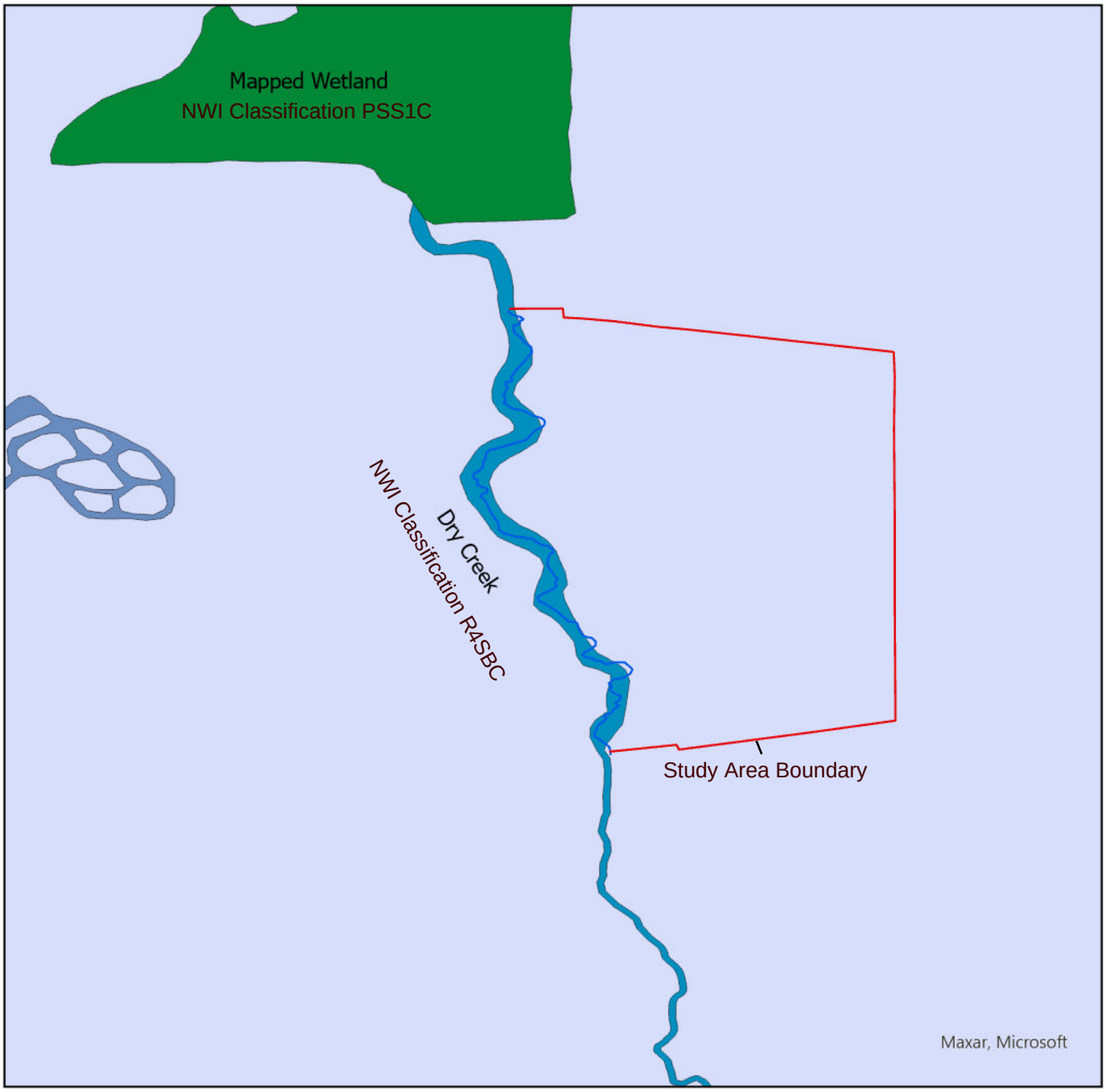
SOILS MAP

PROJECT PENINSULA
CITY OF PORT ANGELES, WA

MARCH 2025

6

Filename: Z:\GIS Repository\PBS\PAAgain.aprx Plot Date/Time: 4/22/2025 3:59 PM



SOURCE: LAYOUT METADATA CREDITS

0 180 360 720 1,080 1,440
Feet

PREPARED FOR: CESO, Inc.

PBS

NWI MAP

PROJECT PENINSULA
CITY OF PORT ANGELES, WASHINGTON

MARCH 2025

FIGURE
7

Filename: Z:\GIS_Repository\PBS\PAAgain.aprx Plot Date/Time: 4/22/2025 4:05 PM

Legend

- Sampling Point
- Category IV Wetland Boundary
- Study Area
- Type III Stream Ordinary High Water Mark
- 75 ft Stream Buffer
- 50 ft Wetland Buffer

SOURCE: LAYOUT METADATA CREDITS

0 100 200 400 600 800 Feet

PREPARED FOR: CESO, Inc.

PBS

WETLANDS AND WATERS

PROJECT PENINSULA
CITY OF PORT ANGELES, WASHINGTON

MARCH 2025

FIGURE
8

Filename: Z:\GIS_Repository\PBS\PAAgain.aprx Plot Date/Time: 4/22/2025 3:49 PM

Appendix A

Site Photographs

Photo Log

Photo 1. Southern end of the property facing Dry Creek & stream and bridge crossing on W. Edgewood Drive.

Photo 2. Dry Creek survey downstream of bridge crossing on W. Edgewood Drive.

Photo 3. Mayfly nymphs in Dry Creek

Photo 4. View of creek and streamside vegetation

Photo 5. Stream canopy and vegetation

Photo 6. Mature western red cedar trees along Dry Creek.

Photo 7. Patches of mature conifers providing overstory canopy within stream buffer.

Photo 8. Row of Western Red Cedars.

Photo 9. Old growth cedar stump along Dry Creek.

Photo 10. Middle reach of Dry Creek on the property.

Photo 11. Bird's nest 6 ft off the ground in the existing Dry Creek buffer.

Photo 12. Banana slug.

Photo 13. Center of property facing west.

Photo 14. View looking south from the northwestern corner of the property.

Photo 15. View of the northwestern corner of the property.

Photo 16. Douglas fir at the southern border of the property along W Edgewood Drive.

Photo 17. Retention pond on the west side of property near Dry Creek.

Photo 1. Large retention pond at the northern end of property.

Photo 19. Northern retention pond.

Photo 20. Gravel area bordering the northern retention pond.

Photo 21. Stormwater infrastructure.

Photo 22. Stormwater infrastructure.

Photo 23. Ponded water at center of property where previous drilling occurred.

Photo 25. Drilling holes showing high water table.

Photo 24. View of Wetland A.

Photo 25. Sample Test Plot Wetland A.

Photo 26. View of Wetland B.

Photo 27. Additional view of Wetland B.

Appendix B

Wetland Determination Forms

Wetland Determination Data Forms 1-4

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Peninsula Project | City/County: Port Angeles/ Clallam | Sampling Date: 3/24/24

Applicant/Owner: CESO Inc. | State: WA | Sampling Point: STP #1

Investigator(s): Rob Fritz, Katya English | Section, Township, Range: Section 12, Township 30 North, Range 07 West

Landform (hillslope, terrace, etc.): Plain | Local relief (concave, convex, none): None | Slope (%): 0

Subregion (LRR): A | Lat: 48°6'51.05"N | Long: -123°30'45.16"N | Datum: WGS 1984

Soil Map Unit Name: Bellingham Silty Clay Loam | NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No ____ (If no, explain in Remarks.)

Are Vegetation ✔, Soil ✔, or Hydrology ✔ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔ No ____	**Is the Sampled Area within a Wetland?** Yes ✔ No ____
Hydric Soil Present?	Yes ✔ No ____	
Wetland Hydrology Present?	Yes ✔ No ____	

Remarks:

Small depressional wetland with ruts from tires

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30 ft)			
1. Spiraea douglasii	20		
2.			
3.			
4.			
5.			
	20 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Juncus spp.	50		
2. Phalaris arundinacea	50		
3. Hylocomium sp.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	= Total Cover		

% Bare Ground in Herb Stratum ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ✔ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ 5 - Wetland Non-Vascular Plants[1]
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No ____

Remarks:

Dominance Test 50% threshold passed indicating hydrophytic vegetation present.

SOIL

Sampling Point: STP #1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16"	10 YR 3/3	100					sandy silt loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ✔ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) (**except MLRA 1**)
- ___ Loamy Gleyed Matrix (F2)
- ✔ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: hard pan roock layer at 16"

Depth (inches): ___

Hydric Soil Present? Yes ✔ No ___

Remarks:

Soil ribbons easily, high clay content. Wetland indicators A4 and F3 present

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ✔ Saturation (A3)
- ✔ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ✔ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9) (**except MLRA 1, 2, 4A, and 4B**)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ✔ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water-Stained Leaves (B9) (**MLRA 1, 2, 4A, and 4B**)
- ✔ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ✔ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ✔ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (**LRR A**)
- ___ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes ✔ No ___ Depth (inches): 4-16"

Water Table Present? Yes ✔ No ___ Depth (inches): 12"

Saturation Present? (includes capillary fringe) Yes ✔ No ___ Depth (inches): 0-16"

Wetland Hydrology Present? Yes ✔ No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Aerial photos included

Remarks:

Wetland indicators A3, B1, B6, C3, C2, C9, and D3 present.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Peninsula Project City/County: Port Angeles/ Clallam Sampling Date: 3/24/24

Applicant/Owner: CESO Inc. State: WA Sampling Point: STP #2

Investigator(s): Rob Fritz, Katya English Section, Township, Range: Section 12, Township 30 North, Range 07 West

Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR): A Lat: 48°6'46.03"N Long: -123°30'44.24"N Datum: WGS 1984

Soil Map Unit Name: Bellingham Silty Clay Loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No ____ (If no, explain in Remarks.)

Are Vegetation ✔, Soil ✔, or Hydrology ✔ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔ No ____	**Is the Sampled Area within a Wetland?** Yes ✔ No ____
Hydric Soil Present?	Yes ✔ No ____	
Wetland Hydrology Present?	Yes ✔ No ____	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30 ft)			
1. Spiraea douglasii	20	N	
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Juncus spp.	50	Y	
2. Phalaris arundinacea	50	Y	
3. Hylocomium sp.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	= Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	= Total Cover		

% Bare Ground in Herb Stratum ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ✔ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ 5 - Wetland Non-Vascular Plants[1]
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No ____

Remarks:
Dominance Test 50% threshold passed indicating hydrophytic vegetation present.

SOIL

Sampling Point: STP #2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16"	10 YR 3/3	100					silty sand loam	ribbons easily

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ✔ Hydrogen Sulfide (A4)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1) (**except MLRA 1**)
- ☐ Loamy Gleyed Matrix (F2)
- ✔ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10)
- ☐ Red Parent Material (TF2)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: Hard pan rock layer at 16"

Depth (inches): 16"

Hydric Soil Present? Yes ✔ No ☐

Remarks:

Soil Dark and ribbons easily, noted oxidized roots. Wetland indicators A4 and F3 present

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ✔ Saturation (A3)
- ✔ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ✔ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9) (**except MLRA 1, 2, 4A, and 4B**)
- ☐ Salt Crust (B11)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Stunted or Stressed Plants (D1) (**LRR A**)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water-Stained Leaves (B9) (**MLRA 1, 2, 4A, and 4B**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)
- ☐ Raised Ant Mounds (D6) (**LRR A**)
- ☐ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes ✔ No ☐ Depth (inches): _____

Water Table Present? Yes ✔ No ☐ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ✔ No ☐ Depth (inches): _____

Wetland Hydrology Present? Yes ✔ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Areal photos show saturation

Remarks:

Wetland indicators A3, B1, and B6 present. Depressional wetland. Drill rig became stuck in middle of wetland

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Peninsula Project City/County: Port Angeles/ Clallam Sampling Date: 3/24/24

Applicant/Owner: CESO Inc. State: WA Sampling Point: STP #3

Investigator(s): Rob Fritz, Katya English Section, Township, Range: Section 12, Township 30 North, Range 07 West

Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR): A Lat: 48°6'51.20"N Long: -123°30'45.49"N Datum: WGS 1984

Soil Map Unit Name: Bellingham Silty Clay Loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No ____ (If no, explain in Remarks.)

Are Vegetation ✔, Soil ✔, or Hydrology ✔ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔ No ____	**Is the Sampled Area within a Wetland?** Yes ____ No ✔
Hydric Soil Present?	Yes ____ No ✔	
Wetland Hydrology Present?	Yes ____ No ✔	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30 ft)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Phalaris arundinacea	80		
2. Iolium spp.	20		
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	= Total Cover		

% Bare Ground in Herb Stratum ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

✔ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ 5 - Wetland Non-Vascular Plants[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No ____

Remarks:

Vegetation met requirements for rapid test indicating hydrophytic vegetation present.

SOIL

Sampling Point: STP #3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16"	10 YR 4/3	100	Dark Borown					gravel sandy silt loam
								Does not ribbon easily

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) (**except MLRA 1**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: crust/hard pan

Depth (inches): 16"

Hydric Soil Present? Yes _____ No ✔

Remarks:
No Hydric Soil indicators present.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9) (**except MLRA 1, 2, 4A, and 4B**)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water-Stained Leaves (B9) (**MLRA 1, 2, 4A, and 4B**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (**LRR A**)
- ___ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
No Hydrology indicators present.

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Peninsula Project City/County: Port Angeles/ Clallam Sampling Date: 3/24/24

Applicant/Owner: CESO Inc. State: WA Sampling Point: STP #4

Investigator(s): Rob Fritz, Katya English Section, Township, Range: Section 12, Township 30 North, Range 07 West

Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR): A Lat: 48°6'46.31"N Long: -123°30'44.69"N Datum: WGS 1984

Soil Map Unit Name: Bellingham Silty Clay Loam NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No ____ (If no, explain in Remarks.)

Are Vegetation ✔, Soil ✔, or Hydrology ✔ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No ____	**Is the Sampled Area within a Wetland?** Yes ____ No ✔
Hydric Soil Present?	Yes ____	No ✔	
Wetland Hydrology Present?	Yes ____	No ✔	

Remarks:

Disturbed site with noted fill of crushed rock in places

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30 ft)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Phalaris arundinacea	80		
2. Iolium spp.	20		
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	= Total Cover		

% Bare Ground in Herb Stratum ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

✔ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ 5 - Wetland Non-Vascular Plants[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✔ No ____

Remarks:

Vegetation met requirements for rapid test indicating hydrophytic vegetation present.

SOIL

Sampling Point: STP #4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16	10 YR 4/3	100	dark brown				gravel sany loam	does not ribbon easily

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) (**except MLRA 1**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: crust/ hard pan

Depth (inches): 16"

Hydric Soil Present? Yes _____ No ✔

Remarks:
No Hydric Soil indicators present.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9) (**except MLRA 1, 2, 4A, and 4B**)
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water-Stained Leaves (B9) (**MLRA 1, 2, 4A, and 4B**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (**LRR A**)
- ___ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes _____ No ✔ Depth (inches): _____

Water Table Present? Yes _____ No ✔ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✔ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
No Hydrology indicators present.

Appendix C

Wetland Rating Forms and Figures

Wetland Rating Summary #1 (A)
Wetland Rating Summary #2 (B)

Wetland name or number #1 Port Angeles Peninsula Site

RATING SUMMARY – Western Washington

Name of wetland (or ID #): Peninsula Site Date of site visit: 3/24/25

Rated by Rob Fritz Trained by Ecology? ✓ Yes ___ No Date of training 2014

HGM Class used for rating Depressional Wetland has multiple HGM classes? ___ Y ✓ N

NOTE: Form is not complete without the required figures (figures can be combined).

Source of base aerial photo/map Google Earth / USGS

OVERALL WETLAND CATEGORY IV (based on functions___ or special characteristics__)

1. Category of wetland based on FUNCTIONS

_____**Category I** – Total score = 23 - 27

_____**Category II** – Total score = 20 - 22

✓ **Category III** – Total score = 16 - 19

_____**Category IV** – Total score = 9 - 15

FUNCTION	Improving Water Quality			Hydrologic			Habitat			TOTAL
	Circle the appropriate ratings									
Site Potential	H	M	(L)	H	M	(L)	H	M	(L)	
Landscape Potential	H	M	(L)	H	M	(L)	H	M	(L)	
Value	H	M	(L)	H	M	(L)	H	M	(L)	
Score Based on Ratings	3			0			2			5

Score for each function based on three ratings (order of ratings is not important)

9 = H, H, H
8 = H, H, M
7 = H, H, L
7 = H, M, M
6 = H, M, L
6 = M, M, M
5 = H, L, L
5 = M, M, L
4 = M, L, L
3 = L, L, L

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATEGORY
Estuarine	**I** **II**
Wetland of High Conservation Value	**I**
Bog	**I**
Mature Forest	**I**
Old Growth Forest	**I**
Coastal Lagoon	**I** **II**
Interdunal	**I** **II** **III** **IV**
None of the above	

Wetland name or number #1 Port Angeles Peninsula Site

Maps and figures required to answer questions correctly for Western Washington

Depressional Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	D 1.3, H 1.1, H 1.4	1,2,3
Hydroperiods	D 1.4, H 1.2	1,2,3
Location of outlet *(can be added to map of hydroperiods)*	D 1.1, D 4.1	1,2,3
Boundary of area within 150 ft of the wetland *(can be added to another figure)*	D 2.2, D 5.2	1,2,3
Map of the contributing basin	D 4.3, D 5.3	1,2,3
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	1,2,3
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	1,2,3
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D 3.3	1,2,3

Riverine Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
Hydroperiods	H 1.2	
Ponded depressions	R 1.1	
Boundary of area within 150 ft of the wetland *(can be added to another figure)*	R 2.4	
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	
Width of unit vs. width of stream *(can be added to another figure)*	R 4.1	
Map of the contributing basin	R 2.2, R 2.3, R 5.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	R 3.1	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	R 3.2, R 3.3	

Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	L 1.1, L 4.1, H 1.1, H 1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland *(can be added to another figure)*	L 2.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L 3.3	

Slope Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
Hydroperiods	H 1.2	
Plant cover of **dense** trees, shrubs, and herbaceous plants	S 1.3	
Plant cover of **dense, rigid** trees, shrubs, and herbaceous plants *(can be added to figure above)*	S 4.1	
Boundary of 150 ft buffer (can be added to another figure)	S 2.1, S 5.1	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	S 3.1, S 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	S 3.3	

Wetland name or number #1 Peninsula Site

HGM Classification of Wetlands in Western Washington

For questions 1-7, the criteria described must apply to the entire unit being rated.

If the hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1-7 apply, and go to Question 8.

1. Are the water levels in the entire unit usually controlled by tides except during floods?

   NO – go to 2 **YES** – the wetland class is **Tidal Fringe** – go to 1.1

   1.1 Is the salinity of the water during periods of annual low flow below 0.5 ppt (parts per thousand)?

   NO – Saltwater Tidal Fringe (Estuarine) **YES – Freshwater Tidal Fringe**
   If your wetland can be classified as a Freshwater Tidal Fringe use the forms for **Riverine** wetlands. If it is Saltwater Tidal Fringe, it is an **Estuarine** wetland and is not scored. This method **cannot** be used to score functions for estuarine wetlands.

2. The entire wetland unit is flat, and precipitation is the only source (>90%) of water to it. Groundwater and surface water runoff are NOT sources of water to the unit.

   NO – go to 3 **YES** – The wetland class is **Flats**
   If your wetland can be classified as a Flats wetland, use the form for **Depressional** wetlands.

3. Does the entire wetland unit **meet all** of the following criteria?
   ___The vegetated part of the wetland is on the shores of a body of permanent open water (without any plants on the surface at any time of the year) at least 20 ac (8 ha) in size,
   ___At least 30% of the open water area is deeper than 6.6 ft (2 m).

   NO – go to 4 **YES** – The wetland class is **Lake Fringe** (Lacustrine Fringe)

4. Does the entire wetland unit **meet all** of the following criteria?
   ____The wetland is on a slope (slope can be very gradual),
   ____The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheet flow, or in a swale without distinct banks,
   ____The water leaves the wetland **without being impounded**.

   NO – go to 5 **YES** – The wetland class is **Slope**

   NOTE: Surface water does not pond in these type of wetlands except occasionally in very small and shallow depressions or behind hummocks (depressions are usually <3 ft diameter and less than 1 ft deep).

Wetland name or number #1

5. Does the entire wetland unit **meet all** of the following criteria?
   ____The unit is in a valley, or stream channel, where it gets inundated by overbank flooding from that stream or river,
   ____The overbank flooding occurs at least once every 2 years.

   NO – go to 6 **YES** – The wetland class is **Riverine**
   NOTE: The Riverine unit can contain depressions that are filled with water when the river is not flooding

6. Is the entire wetland unit in a topographic depression in which water ponds, or is saturated to the surface, at some time during the year? This means that any outlet, if present, is higher than the interior of the wetland.

   NO – go to 7 **YES** – The wetland class is **Depressional**

7. Is the entire wetland unit located in a very flat area with no obvious depression and no overbank flooding? The unit does not pond surface water more than a few inches. The unit seems to be maintained by high groundwater in the area. The wetland may be ditched but has no obvious natural outlet.

   NO – go to 8 **YES** – The wetland class is **Depressional**

8. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIFFERENT AREAS IN THE UNIT (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within the wetland unit being scored.

   NOTE: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the HGM class listed in column 2 is less than 10% of the unit; classify the wetland using the class that represents more than 90% of the total area.

HGM classes within the wetland unit being rated	HGM class to use in rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake Fringe	Lake Fringe
Depressional + Riverine along stream within boundary of depression	Depressional
Depressional + Lake Fringe	Depressional
Riverine + Lake Fringe	Riverine
Salt Water Tidal Fringe and any other class of freshwater wetland	Treat as ESTUARINE

If you are still unable to determine which of the above criteria apply to your wetland, or if you have **more than 2 HGM classes** within a wetland boundary, classify the wetland as Depressional for the rating.

Wetland name or number #1

DEPRESSIONAL AND FLATS WETLANDS

Water Quality Functions - Indicators that the site functions to improve water quality

D 1.0. Does the site have the potential to improve water quality?

D 1.1. Characteristics of surface water outflows from the wetland: Wetland is a depression or flat depression (QUESTION 7 on key) with no surface water leaving it (no outlet). points = 3 Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outlet. points = 2 Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 1 Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch. points = 1	3
D 1.2. The soil 2 in. below the surface (or duff layer) is true clay or true organic *(use NRCS definitions)*. Yes = 4 No = 0	0
D 1.3. Characteristics and distribution of persistent plants (Emergent, Scrub-shrub, and/or Forested Cowardin classes): Wetland has persistent, ungrazed plants > 95% of area points = 5 Wetland has persistent, ungrazed plants > ½ of area points = 3 Wetland has persistent, ungrazed plants ≥ 1/10 of area points = 1 Wetland has persistent, ungrazed plants < 1/10 of area points = 0	0
D 1.4. Characteristics of seasonal ponding or inundation: *This is the area that is ponded for at least 2 months. See description in manual.* Area seasonally ponded is > ½ total area of wetland points = 4 Area seasonally ponded is ≥ ¼ total area of wetland points = 2 Area seasonally ponded is < ¼ total area of wetland points = 0	0
Total for D 1 Add the points in the boxes above	3

Rating of Site Potential If score is: **__12-16 = H ___6-11 = M ___0-5 = L** *Record the rating on the first page*

D 2.0. Does the landscape have the potential to support the water quality function of the site?

D 2.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0	0
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? Yes = 1 No = 0	0
D 2.3. Are there septic systems within 250 ft of the wetland? Yes = 1 No = 0	0
D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1-D 2.3? Source_____ Yes = 1 No = 0	0
Total for D 2 Add the points in the boxes above	0

Rating of Landscape Potential If score is: **__3 or 4 = H ___1 or 2 = M ___0 = L** *Record the rating on the first page*

D 3.0. Is the water quality improvement provided by the site valuable to society?

D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine water that is on the 303(d) list? Yes = 1 No = 0	0
D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the 303(d) list? Yes = 1 No = 0	0
D 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? (Answer YES if there is a TMDL in development or in effect for the basin in which the unit is found.) Yes = 2 No = 0	0
Total for D 3 Add the points in the boxes above	0

Rating of Value If score is: 3 **2-4 = H ___1 = M ___0 = L** *Record the rating on the first page*

Wetland name or number #1

DEPRESSIONAL AND FLATS WETLANDS

Hydrologic Functions - Indicators that the site functions to reduce flooding and stream degradation

D 4.0. Does the site have the potential to reduce flooding and erosion?

D 4.1. Characteristics of surface water outflows from the wetland:

Wetland is a depression or flat depression with no surface water leaving it (no outlet)	points = 4
Wetland has an intermittently flowing stream/ditch, OR highly constricted permanently flowing outlet	points = 2
Wetland is a flat depression (question 7 on key), whose outlet is a permanently flowing ditch	points = 1
Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing	points = 0

0

D 4.2. Depth of storage during wet periods: Estimate the height of ponding above the bottom of the outlet. For wetlands with no outlet, measure from the surface of permanent water or if dry, the deepest part.

Marks of ponding are 3 ft or more above the surface or bottom of outlet	points = 7
Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet	points = 5
Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet	points = 3
The wetland is a "headwater" wetland	points = 3
Wetland is flat but has small depressions on the surface that trap water	points = 1
Marks of ponding less than 0.5 ft (6 in)	points = 0

0

D 4.3. Contribution of the wetland to storage in the watershed: Estimate the ratio of the area of upstream basin contributing surface water to the area of the wetland unit itself.

The area of the basin is less than 10 times the area of the unit	points = 5
The area of the basin is 10 to 100 times the area of the unit	points = 3
The area of the basin is more than 100 times the area of the unit	points = 0
Entire wetland is in the Flats class	points = 5

0

Total for D 4 — Add the points in the boxes above: 0

Rating of Site Potential If score is: __**12-16 = H** ___**6-11 = M** 0 **0-5 = L** *Record the rating on the first page*

D 5.0. Does the landscape have the potential to support hydrologic functions of the site?

D 5.1. Does the wetland receive stormwater discharges?	Yes = 1 No = 0	0
D 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generate excess runoff?	Yes = 1 No = 0	0
D 5.3. Is more than 25% of the contributing basin of the wetland covered with intensive human land uses (residential at >1 residence/ac, urban, commercial, agriculture, etc.)?	Yes = 1 No = 0	0
Total for D 5 — Add the points in the boxes above		0

Rating of Landscape Potential If score is: __**3 = H** ___**1 or 2 = M** 0 **0 = L** *Record the rating on the first page*

D 6.0. Are the hydrologic functions provided by the site valuable to society?

D 6.1. Is the unit in a landscape that has flooding problems? Choose the description that best matches conditions around the wetland unit being rated. Do not add points. Choose the highest score if more than one condition is met.

The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g., houses or salmon redds):

- Flooding occurs in a sub-basin that is immediately downgradient of unit. points = 2
- Surface flooding problems are in a sub-basin farther downgradient. points = 1
- Flooding from groundwater is an issue in the sub-basin. points = 1
- The existing or potential outflow from the wetland is so constrained by human or natural conditions that the water stored by the wetland cannot reach areas that flood. *Explain why* _____ points = 0
- There are no problems with flooding downstream of the wetland. points = 0

0

D 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan? Yes = 2 No = 0 — 0

Total for D 6 — Add the points in the boxes above: 0

Rating of Value If score is: __**2-4 = H** ___**1 = M** 0 **0 = L** *Record the rating on the first page*

Wetland name or number #1

RIVERINE AND FRESHWATER TIDAL FRINGE WETLANDS

Water Quality Functions - Indicators that the site functions to improve water quality

R 1.0. Does the site have the potential to improve water quality?		
R 1.1. Area of surface depressions within the Riverine wetland that can trap sediments during a flooding event:		
Depressions cover >3/4 area of wetland	points = 8	0
Depressions cover > ½ area of wetland	points = 4	
Depressions present but cover ≤ ½ area of wetland	points = 2	
No depressions present	points = 0	
R 1.2. Structure of plants in the wetland (areas with >90% cover at person height, **not** Cowardin classes)		
Trees or shrubs > 2/3 area of the wetland	points = 8	0
Trees or shrubs > 1/3 area of the wetland	points = 6	
Herbaceous plants (> 6 in. high) > 2/3 area of the wetland	points = 6	
Herbaceous plants (> 6 in. high) > 1/3 area of the wetland	points = 3	
Trees, shrubs, and ungrazed herbaceous < 1/3 area of the wetland	points = 0	
Total for R 1 — Add the points in the boxes above		6

Rating of Site Potential If score is: __**12-16 = H** ___**6-11 = M** 0 **0-5 = L** *Record the rating on the first page*

R 2.0. Does the landscape have the potential to support the water quality function of the site?		
R 2.1. Is the wetland within an incorporated city or within its UGA?	Yes = 2 No = 0	0
R 2.2. Does the contributing basin to the wetland include a UGA or incorporated area?	Yes = 1 No = 0	0
R 2.3. Does at least 10% of the contributing basin contain tilled fields, pastures, or forests that have been clearcut within the last 5 years?	Yes = 1 No = 0	0
R 2.4. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?	Yes = 1 No = 0	0
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions R 2.1-R 2.4? Other sources _____	Yes = 1 No = 0	0
Total for R 2 — Add the points in the boxes above		0

Rating of Landscape Potential If score is: __**3-6 = H** ___**1 or 2 = M** 0 **0 = L** *Record the rating on the first page*

R 3.0. Is the water quality improvement provided by the site valuable to society?		
R 3.1. Is the wetland along a stream or river that is on the 303(d) list or on a tributary that drains to one within 1 mi?	Yes = 1 No = 0	0
R 3.2. Is the wetland along a stream or river that has TMDL limits for nutrients, toxics, or pathogens?	Yes = 1 No = 0	
R 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? (Answer YES if there is a TMDL in development or in effect for the drainage in which the unit is found.)	Yes = 2 No = 0	0
Total for R 3 — Add the points in the boxes above		0

Rating of Value If score is: __**2-4 = H** ___**1 = M** 0 **0 = L** *Record the rating on the first page*

Wetland name or number #1

RIVERINE AND FRESHWATER TIDAL FRINGE WETLANDS

Hydrologic Functions - Indicators that site functions to reduce flooding and stream erosion

R 4.0. Does the site have the potential to reduce flooding and erosion?

R 4.1. Characteristics of the overbank storage the wetland provides: Estimate the average width of the wetland perpendicular to the direction of the flow and the width of the stream or river channel (distance between banks). Calculate the ratio: (average width of wetland)/(average width of stream between banks). If the ratio is more than 20 — points = 9 If the ratio is 10-20 — points = 6 If the ratio is 5-<10 — points = 4 If the ratio is 1-<5 — points = 2 If the ratio is < 1 — points = 1	
R 4.2. Characteristics of plants that slow down water velocities during floods: Treat large woody debris as forest or shrub. Choose the points appropriate for the best description (polygons need to have >90% cover at person height. These are NOT Cowardin classes). Forest or shrub for $>^1/_3$ area OR emergent plants $> ^2/_3$ area — points = 7 Forest or shrub for $> ^1/_{10}$ area OR emergent plants $> ^1/_3$ area — points = 4 Plants do not meet above criteria — points = 0	
Total for R 4 — Add the points in the boxes above	

Rating of Site Potential If score is: **__12-16 = H ___6-11 = M ___0-5 = L** *Record the rating on the first page*

R 5.0. Does the landscape have the potential to support the hydrologic functions of the site?

R 5.1. Is the stream or river adjacent to the wetland downcut? — Yes = 0 No = 1	
R 5.2. Does the upgradient watershed include a UGA or incorporated area? — Yes = 1 No = 0	
R 5.3. Is the upgradient stream or river controlled by dams? — Yes = 0 No = 1	
Total for R 5 — Add the points in the boxes above	

Rating of Landscape Potential If score is: **__3 = H ___1 or 2 = M ___0 = L** *Record the rating on the first page*

R 6.0. Are the hydrologic functions provided by the site valuable to society?

R 6.1. Distance to the nearest areas downstream that have flooding problems? Choose the description that best fits the site. The sub-basin immediately downgradient of the wetland has flooding problems that result in damage to human or natural resources (e.g., houses or salmon redds) — points = 2 Surface flooding problems are in a sub-basin farther downgradient — points = 1 No flooding problems anywhere downstream — points = 0	
R 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan? — Yes = 2 No = 0	
Total for R 6 — Add the points in the boxes above	

Rating of Value If score is: **__2-4 = H ___1 = M ___0 = L** *Record the rating on the first page*

Wetland name or number #1

LAKE FRINGE WETLANDS

Water Quality Functions - Indicators that the site functions to improve water quality

L 1.0. Does the site have the potential to improve water quality?		
L 1.1. Average width of plants along the lakeshore (use polygons of Cowardin classes):		
Plants are ≥33 ft (10 m) wide	points = 6	
Plants are ≥16 ft (5 m) wide and <33 ft	points = 3	
Plants are ≥6 ft (2 m) wide and <16 ft	points = 1	
Plants are less than 6 ft wide	points = 0	
L 1.2. Characteristics of the plants in the wetland: Choose the appropriate description that results in the highest points, and do not include any open water in your estimate of coverage. The herbaceous plants can be either the dominant form or as an understory in a shrub or forest community. These are not Cowardin classes. Area of cover is total cover in the unit, but it can be in patches. Herbaceous does not include aquatic bed.		
Cover of herbaceous plants is >90% of the vegetated area	points = 6	
Cover of herbaceous plants is >$^2/_3$ of the vegetated area	points = 4	
Cover of herbaceous plants is >$^1/_3$ of the vegetated area	points = 3	
Other plants that are not aquatic bed > $^2/_3$ unit	points = 3	
Other plants that are not aquatic bed in > $^1/_3$ vegetated area	points = 1	
Aquatic bed plants and open water cover > $^2/_3$ of the unit	points = 0	
Total for L 1	Add the points in the boxes above	

Rating of Site Potential If score is: __**8-12 = H** ___**4-7 = M** ___**0-3 = L** *Record the rating on the first page*

L 2.0. Does the landscape have the potential to support the water quality function of the site?		
L 2.1. Is the lake used by power boats?	Yes = 1 No = 0	
L 2.2. Is > 10% of the area within 150 ft of wetland unit on the upland side in land uses that generate pollutants?	Yes = 1 No = 0	
L 2.3. Does the lake have problems with algal blooms or excessive plant growth such as milfoil?	Yes = 1 No = 0	
Total for L 2	Add the points in the boxes above	

Rating of Landscape Potential: If score is: __**2 or 3 = H** ___**1 = M** ___**0 = L** *Record the rating on the first page*

L 3.0. Is the water quality improvement provided by the site valuable to society?		
L 3.1. Is the lake on the 303(d) list of degraded aquatic resources?	Yes = 1 No = 0	
L 3.2. Is the lake in a sub-basin where water quality is an issue (at least one aquatic resource in the basin is on the 303(d) list)?	Yes = 1 No = 0	
L 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? (Answer YES if there is a TMDL in development or in effect for the lake or basin in which the unit is found.)	Yes = 2 No = 0	
Total for L 3	Add the points in the boxes above	

Rating of Value If score is: __**2-4 = H** ___**1 = M** ___**0 = L** *Record the rating on the first page*

Wetland name or number #1

LAKE FRINGE WETLANDS

Hydrologic Functions - Indicators that the site functions to reduce shoreline erosion

L 4.0. Does the site have the potential to reduce shoreline erosion?	
L 4.1. Distance along shore and average width of Cowardin classes along the lakeshore (**do not** include Aquatic bed): Choose the highest scoring description that matches conditions in the wetland. > ¾ of distance is Scrub-shrub or Forested at least 33 ft (10 m) wide — points = 6 > ¾ of distance is Scrub-shrub or Forested at least 6 ft (2 m) wide — points = 4 > ¼ distance is Scrub-shrub or Forested at least 33 ft (10 m) wide — points = 4 Plants are at least 6 ft (2 m) wide (any type except Aquatic bed) — points = 2 Plants are less than 6 ft (2 m) wide (any type except Aquatic bed) — points = 0	

Rating of Site Potential: If score is: __6 = M ___0-5 = L *Record the rating on the first page*

L 5.0. Does the landscape have the potential to support the hydrologic functions of the site?		
L 5.1. Is the lake used by power boats with more than 10 hp?	Yes = 1 No = 0	
L 5.2. Is the fetch on the lake side of the unit at least 1 mile in distance?	Yes = 1 No = 0	
Total for L 5	Add the points in the boxes above	

Rating of Landscape Potential If score is: __2 = H ___1 = M ___0 = L *Record the rating on the first page*

L 6.0. Are the hydrologic functions provided by the site valuable to society?	
L 6.1. Are there resources along the shore that can be impacted by erosion? If more than one resource is present, choose the one with the highest score. There are human structures or old growth/mature forests within 25 ft of OHWM of the shore in the unit — points = 2 There are nature trails or other paths and recreational activities within 25 ft of OHWM — points = 1 Other resources that could be impacted by erosion — points = 1 There are no resources that can be impacted by erosion along the shores of the unit — points = 0	

Rating of Value: If score is: __2 = H ___1 = M ___0 = L *Record the rating on the first page*

NOTES and FIELD OBSERVATIONS:

Wetland name or number #1

SLOPE WETLANDS

Water Quality Functions - Indicators that the site functions to improve water quality

S 1.0. Does the site have the potential to improve water quality?	
S 1.1. Characteristics of the average slope of the wetland: (A 1% slope has a 1 ft vertical change in elevation for every 100 ft of horizontal distance.) Slope is 1% or less — points = 3 Slope is > 1%-2% — points = 2 Slope is > 2%-5% — points = 1 Slope is greater than 5% — points = 0	
S 1.2. The soil 2 in. below the surface (or duff layer) is true clay or true organic *(use NRCS definitions)*: Yes = 3 No = 0	
S 1.3. Characteristics of the plants in the wetland that trap sediments and pollutants: Choose the points appropriate for the description that best fits the plants in the wetland. Dense means you have trouble seeing the soil surface (>75% cover), and uncut means not grazed or mowed, and plants are higher than 6 in. Dense, uncut, herbaceous plants > 90% of the wetland area — points = 6 Dense, uncut, herbaceous plants > ½ of area — points = 3 Dense, woody, plants > ½ of area — points = 2 Dense, uncut, herbaceous plants > ¼ of area — points = 1 Does not meet any of the criteria above for plants — points = 0	
Total for S 1 — Add the points in the boxes above	

Rating of Site Potential If score is: __**12 = H** ___**6-11 = M** ___**0-5 = L** *Record the rating on the first page*

S 2.0. Does the landscape have the potential to support the water quality function of the site?	
S 2.1. Is > 10% of the area within 150 ft on the uphill side of the wetland in land uses that generate pollutants? Yes = 1 No = 0	
S 2.2. Are there other sources of pollutants coming into the wetland that are not listed in question S 2.1? Other sources _____ Yes = 1 No = 0	
Total for S 2 — Add the points in the boxes above	

Rating of Landscape Potential If score is: __**1-2 = M** ___**0 = L** *Record the rating on the first page*

S 3.0. Is the water quality improvement provided by the site valuable to society?	
S 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine water that is on the 303(d) list? Yes = 1 No = 0	
S 3.2. Is the wetland in a basin or sub-basin where water quality is an issue? (At least one aquatic resource in the basin is on the 303(d) list.) Yes = 1 No = 0	
S 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? (Answer YES if there is a TMDL in development or in effect for the basin in which unit is found.) Yes = 2 No = 0	
Total for S 3 — Add the points in the boxes above	

Rating of Value If score is: __**2-4 = H** ___**1 = M** ___**0 = L** *Record the rating on the first page*

Wetland name or number #1

SLOPE WETLANDS

Hydrologic Functions - Indicators that the site functions to reduce flooding and stream erosion

S 4.0. Does the site have the potential to reduce flooding and stream erosion?	
S 4.1. Characteristics of plants that reduce the velocity of surface flows during storms: Choose the points appropriate for the description that best fits conditions in the wetland. Stems of plants should be thick enough (usually > 1/8 in), or dense enough, to remain erect during surface flows. Dense, uncut, **rigid** plants cover > 90% of the area of the wetland — points = 1 All other conditions — points = 0	

Rating of Site Potential If score is: __**1 = M** ___**0 = L** *Record the rating on the first page*

S 5.0. Does the landscape have the potential to support the hydrologic functions of the site?	
S 5.1. Is more than 25% of the area within 150 ft upslope of wetland in land uses or cover that generate excess surface runoff? Yes = 1 No = 0	

Rating of Landscape Potential If score is: __**1 = M** ___**0 = L** *Record the rating on the first page*

S 6.0. Are the hydrologic functions provided by the site valuable to society?	
S 6.1. Distance to the nearest areas downstream that have flooding problems: The sub-basin immediately downgradient of site has flooding problems that result in damage to human or natural resources (e.g., houses or salmon redds) — points = 2 Surface flooding problems are in a sub-basin farther downgradient — points = 1 No flooding problems anywhere downstream — points = 0	
S 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan? Yes = 2 No = 0	
Total for S 6 — Add the points in the boxes above	

Rating of Value If score is: __**2-4 = H** ___**1 = M** ___**0 = L** *Record the rating on the first page*

NOTES and FIELD OBSERVATIONS:

Wetland name or number #1

These questions apply to wetlands of all HGM classes.

HABITAT FUNCTIONS - Indicators that site functions to provide important habitat

H 1.0. Does the site have the potential to provide habitat?

H 1.1. Structure of plant community: Indicators are Cowardin classes and strata within the Forested class. Check the Cowardin plant classes in the wetland. Up to 10 patches may be combined for each class to meet the threshold of ¼ ac if the unit is at least 2.5 ac, or more than 10% of the unit if it is smaller than 2.5 ac.

____Aquatic bed — 4 structures or more: points = 4
____Emergent — 3 structures: points = 2
____Scrub-shrub (areas where shrubs have > 30% cover) — 2 structures: points = 1
____Forested (areas where trees have > 30% cover) — 1 structure: points = 0

If the unit has a Forested class, check if:

____The Forested class has 3 out of 5 strata (canopy, sub-canopy, shrubs, herbaceous, moss/groundcover) that each cover 20% within the Forested polygon

H 1.2. Hydroperiods

Check the types of water regimes (hydroperiods) present within the wetland. The water regime has to cover more than 10% of the wetland if the unit is < 2.5 ac, or ¼ ac if the unit is at least 2.5 ac to count (see text for descriptions of hydroperiods).

____Permanently flooded or inundated — 4 or more types present: points = 3
✓ Seasonally flooded or inundated — 3 types present: points = 2
____Occasionally flooded or inundated — 2 types present: points = 1
____Saturated only — 1 type present: points = 0
____Permanently flowing stream or river in, or adjacent to, the wetland
____Intermittently or seasonally flowing stream in, or adjacent to, the wetland
____**Lake Fringe wetland** — **2 points**
____**Freshwater tidal wetland** — **2 points**

H 1.3. Richness of plant species

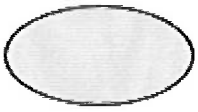
Count the number of plant species in the wetland that cover at least 10 ft^2.

Different patches of the same species can be combined to meet the size threshold and you do not have to name the species. **Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Canada thistle**

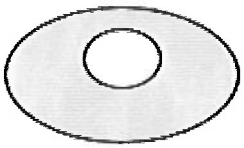
If you counted: > 19 species — points = 2
5 - 19 species — points = 1
< 5 species — points = 0

H 1.4. Interspersion of habitats

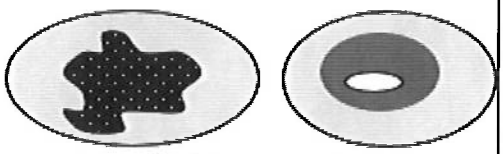
Decide from the diagrams below whether interspersion among Cowardin plants classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or none. If you have four or more plant classes or three classes and open water, the rating is always high.



None = 0 points

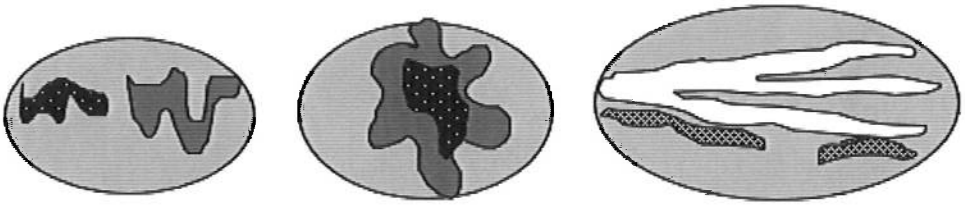


Low = 1 point



Moderate = 2 points

All three diagrams in this row are **High** = 3 points



Wetland name or number #1

H 1.5. Special habitat features: Check the habitat features that are present in the wetland. The number of checks is the number of points. ____Large, downed, woody debris within the wetland (> 4 in. diameter and 6 ft long). ____Standing snags (dbh > 4 in.) within the wetland ____Undercut banks are present for at least 6.6 ft (2 m) **and/or** overhanging plants extend at least 3.3 ft (1 m) over open water or a stream (or ditch) in, or contiguous with the wetland, for at least 33 ft (10 m) ____Stable steep banks of fine material that might be used by beaver or muskrat for denning (> 30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet weathered where wood is exposed) ____At least ¼ ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by amphibians) ____Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 above for the list of strata and H 1.5 in the manual for the list of aggressive plant species)	0
Total for H 1 Add the points in the boxes above	0

Rating of Site Potential If score is: __**15-18 = H** ___**7-14 = M** ___**0-6 = L** *Record the rating on the first page*

H 2.0. Does the landscape have the potential to support the habitat functions of the site?	
H 2.1. Accessible habitat (include only habitat polygons accessible from the wetland. *Calculate:* % relatively undisturbed habitat___ + [(% moderate and low intensity land uses)/2]___ = _____% Total accessible habitat is: > 1/3 (33.3%) of 1 km Polygon points = 3 20-33% of 1 km Polygon points = 2 10-19% of 1 km Polygon points = 1 < 10% of 1 km Polygon points = 0	1
H 2.2. Total habitat in 1 km Polygon around the wetland. *Calculate:* % relatively undisturbed habitat___ + [(% moderate and low intensity land uses)/2]___ = _____% Total habitat > 50% of Polygon points = 3 Total habitat 10-50% and in 1-3 patches points = 2 Total habitat 10-50% and > 3 patches points = 1 Total habitat < 10% of 1 km Polygon points = 0	1
H 2.3. Land use intensity in 1 km Polygon: > 50% of 1 km Polygon is high intensity land use points = (- 2) ≤ 50% of 1 km Polygon is high intensity points = 0	0
Total for H 2 Add the points in the boxes above	2

Rating of Landscape Potential If score is: __**4-6 = H** ___**1-3 = M** ___**< 1 = L** *Record the rating on the first page*

H 3.0. Is the habitat provided by the site valuable to society?	
H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? *Choose only the highest score that applies to the wetland being rated.* Site meets ANY of the following criteria: points = 2 — It has 3 or more Priority Habitats within 100 m (see next page) — It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists) — It is mapped as a location for an individual WDFW Priority Species — It is a Wetland of High Conservation Value as determined by the Department of Natural Resources data — It has been categorized as an important habitat site in a local or regional comprehensive plan, in a Shoreline Master Plan, or in a watershed plan Site has 1 or 2 Priority Habitats (listed on next page) within 100 m points = 1 Site does not meet any of the criteria above points = 0	0

Rating of Value If score is: __**2 = H** ___**1 = M** ___**0 = L** *Record the rating on the first page*

Wetland name or number #2 Port Angeles Peninsula Site

RATING SUMMARY – Western Washington

Name of wetland (or ID #): Peninsula Site Date of site visit: 3/24/25

Rated by Rob Fritz Trained by Ecology? ✓Yes ___No Date of training 2014

HGM Class used for rating Depressional Wetland has multiple HGM classes? ___Y ✓N

NOTE: Form is not complete without the required figures (figures can be combined).

Source of base aerial photo/map Google Earth / USGS

OVERALL WETLAND CATEGORY IV (based on functions___ or special characteristics__)

1. Category of wetland based on FUNCTIONS

_____**Category I** – Total score = 23 - 27

_____**Category II** – Total score = 20 - 22

✓ **Category III** – Total score = 16 - 19

✓ **Category IV** – Total score = 9 - 15

FUNCTION	Improving Water Quality			Hydrologic			Habitat			TOTAL
	Circle the appropriate ratings									
Site Potential	H	M	(L)	H	M	(L)	H	M	(L)	
Landscape Potential	H	M	(L)	H	M	(L)	H	M	(L)	
Value	H	M	(L)	H	M	(L)	H	M	(L)	
Score Based on Ratings	3			0			2			5

Score for each function based on three ratings (order of ratings is not important)

9 = H, H, H
8 = H, H, M
7 = H, H, L
7 = H, M, M
6 = H, M, L
6 = M, M, M
5 = H, L, L
5 = M, M, L
4 = M, L, L
3 = L, L, L

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATEGORY
Estuarine	I II
Wetland of High Conservation Value	I
Bog	I
Mature Forest	I
Old Growth Forest	I
Coastal Lagoon	I II
Interdunal	I II III IV
None of the above	

Wetland name or number #2 Port Angeles Peninsula Site

Maps and figures required to answer questions correctly for Western Washington

Depressional Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	D 1.3, H 1.1, H 1.4	1,2,3
Hydroperiods	D 1.4, H 1.2	1,2,3
Location of outlet (*can be added to map of hydroperiods)*	D 1.1, D 4.1	1,2,3
Boundary of area within 150 ft of the wetland *(can be added to another figure)*	D 2.2, D 5.2	1,2,3
Map of the contributing basin	D 4.3, D 5.3	1,2,3
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	1,2,3
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	1,2,3
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D 3.3	1,2,3

Riverine Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	N/A
Hydroperiods	H 1.2	N/A
Ponded depressions	R 1.1	
Boundary of area within 150 ft of the wetland *(can be added to another figure)*	R 2.4	
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	
Width of unit vs. width of stream *(can be added to another figure)*	R 4.1	
Map of the contributing basin	R 2.2, R 2.3, R 5.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	R 3.1	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	R 3.2, R 3.3	

Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	L 1.1, L 4.1, H 1.1, H 1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland *(can be added to another figure)*	L 2.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L 3.3	

Slope Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
Hydroperiods	H 1.2	
Plant cover of **dense** trees, shrubs, and herbaceous plants	S 1.3	
Plant cover of **dense, rigid** trees, shrubs, and herbaceous plants *(can be added to figure above)*	S 4.1	
Boundary of 150 ft buffer (can be added to another figure)	S 2.1, S 5.1	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	S 3.1, S 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	S 3.3	N/A

Wetland name or number #2 Peninsula Site

HGM Classification of Wetlands in Western Washington

For questions 1-7, the criteria described must apply to the entire unit being rated.

If the hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1-7 apply, and go to Question 8.

1. Are the water levels in the entire unit usually controlled by tides except during floods?

   NO – go to 2 **YES** – the wetland class is **Tidal Fringe** – go to 1.1

   1.1 Is the salinity of the water during periods of annual low flow below 0.5 ppt (parts per thousand)?

   NO – Saltwater Tidal Fringe (Estuarine) **YES – Freshwater Tidal Fringe**
   If your wetland can be classified as a Freshwater Tidal Fringe use the forms for **Riverine** wetlands. If it is Saltwater Tidal Fringe, it is an **Estuarine** wetland and is not scored. This method **cannot** be used to score functions for estuarine wetlands.

2. The entire wetland unit is flat, and precipitation is the only source (>90%) of water to it. Groundwater and surface water runoff are NOT sources of water to the unit.

   NO – go to 3 **YES** – The wetland class is **Flats**
   If your wetland can be classified as a Flats wetland, use the form for **Depressional** wetlands.

3. Does the entire wetland unit **meet all** of the following criteria?
   ___The vegetated part of the wetland is on the shores of a body of permanent open water (without any plants on the surface at any time of the year) at least 20 ac (8 ha) in size,
   ___At least 30% of the open water area is deeper than 6.6 ft (2 m).

   NO – go to 4 **YES** – The wetland class is **Lake Fringe** (Lacustrine Fringe)

4. Does the entire wetland unit **meet all** of the following criteria?
   ____The wetland is on a slope (slope can be very gradual),
   ____The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheet flow, or in a swale without distinct banks,
   ____The water leaves the wetland **without being impounded**.

   NO – go to 5 **YES** – The wetland class is **Slope**

   NOTE: Surface water does not pond in these type of wetlands except occasionally in very small and shallow depressions or behind hummocks (depressions are usually <3 ft diameter and less than 1 ft deep).

Wetland name or number #2

5. Does the entire wetland unit **meet all** of the following criteria?
   ____The unit is in a valley, or stream channel, where it gets inundated by overbank flooding from that stream or river,
   ____The overbank flooding occurs at least once every 2 years.

   NO – go to 6 **YES** – The wetland class is **Riverine**
   NOTE: The Riverine unit can contain depressions that are filled with water when the river is not flooding

6. Is the entire wetland unit in a topographic depression in which water ponds, or is saturated to the surface, at some time during the year? This means that any outlet, if present, is higher than the interior of the wetland.

   NO – go to 7 **YES** – The wetland class is **Depressional**

7. Is the entire wetland unit located in a very flat area with no obvious depression and no overbank flooding? The unit does not pond surface water more than a few inches. The unit seems to be maintained by high groundwater in the area. The wetland may be ditched but has no obvious natural outlet.

   NO – go to 8 **YES** – The wetland class is **Depressional**

8. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIFFERENT AREAS IN THE UNIT (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within the wetland unit being scored.

   NOTE: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the HGM class listed in column 2 is less than 10% of the unit; classify the wetland using the class that represents more than 90% of the total area.

HGM classes within the wetland unit being rated	HGM class to use in rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake Fringe	Lake Fringe
Depressional + Riverine along stream within boundary of depression	Depressional
Depressional + Lake Fringe	Depressional
Riverine + Lake Fringe	Riverine
Salt Water Tidal Fringe and any other class of freshwater wetland	Treat as ESTUARINE

If you are still unable to determine which of the above criteria apply to your wetland, or if you have **more than 2 HGM classes** within a wetland boundary, classify the wetland as Depressional for the rating.

Wetland name or number #2

DEPRESSIONAL AND FLATS WETLANDS

Water Quality Functions - Indicators that the site functions to improve water quality

D 1.0. Does the site have the potential to improve water quality?

D 1.1. Characteristics of surface water outflows from the wetland: Wetland is a depression or flat depression (QUESTION 7 on key) with no surface water leaving it (no outlet). points = 3 Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outlet. points = 2 Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 1 Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch. points = 1	3
D 1.2. The soil 2 in. below the surface (or duff layer) is true clay or true organic *(use NRCS definitions)*. Yes = 4 No = 0	0
D 1.3. Characteristics and distribution of persistent plants (Emergent, Scrub-shrub, and/or Forested Cowardin classes): Wetland has persistent, ungrazed plants > 95% of area points = 5 Wetland has persistent, ungrazed plants > ½ of area points = 3 Wetland has persistent, ungrazed plants ≥ $^1/_{10}$ of area points = 1 Wetland has persistent, ungrazed plants < $^1/_{10}$ of area points = 0	0
D 1.4. Characteristics of seasonal ponding or inundation: *This is the area that is ponded for at least 2 months. See description in manual.* Area seasonally ponded is > ½ total area of wetland points = 4 Area seasonally ponded is ≥ ¼ total area of wetland points = 2 Area seasonally ponded is < ¼ total area of wetland points = 0	0
Total for D 1 Add the points in the boxes above	3

Rating of Site Potential If score is: __**12-16 = H** ___**6-11 = M** ___**0-5 = L** *Record the rating on the first page*

D 2.0. Does the landscape have the potential to support the water quality function of the site?

D 2.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0	0
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? Yes = 1 No = 0	0
D 2.3. Are there septic systems within 250 ft of the wetland? Yes = 1 No = 0	0
D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1-D 2.3? Source_____ Yes = 1 No = 0	0
Total for D 2 Add the points in the boxes above	0

Rating of Landscape Potential If score is: __**3 or 4 = H** ___**1 or 2 = M** ___**0 = L** *Record the rating on the first page*

D 3.0. Is the water quality improvement provided by the site valuable to society?

D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine water that is on the 303(d) list? Yes = 1 No = 0	0
D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the 303(d) list? Yes = 1 No = 0	0
D 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? (Answer YES if there is a TMDL in development or in effect for the basin in which the unit is found.) Yes = 2 No = 0	0
Total for D 3 Add the points in the boxes above	0

Rating of Value If score is: 3 **2-4 = H** ___**1 = M** ___**0 = L** *Record the rating on the first page*

Wetland name or number #2

DEPRESSIONAL AND FLATS WETLANDS

Hydrologic Functions - Indicators that the site functions to reduce flooding and stream degradation

D 4.0. Does the site have the potential to reduce flooding and erosion?	
D 4.1. Characteristics of surface water outflows from the wetland: Wetland is a depression or flat depression with no surface water leaving it (no outlet) points = 4 Wetland has an intermittently flowing stream/ditch, OR highly constricted permanently flowing outlet points = 2 Wetland is a flat depression (question 7 on key), whose outlet is a permanently flowing ditch points = 1 Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 0	0
D 4.2. Depth of storage during wet periods: Estimate the height of ponding above the bottom of the outlet. For wetlands with no outlet, measure from the surface of permanent water or if dry, the deepest part. Marks of ponding are 3 ft or more above the surface or bottom of outlet points = 7 Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet points = 5 Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet points = 3 The wetland is a "headwater" wetland points = 3 Wetland is flat but has small depressions on the surface that trap water points = 1 Marks of ponding less than 0.5 ft (6 in) points = 0	0
D 4.3. Contribution of the wetland to storage in the watershed: Estimate the ratio of the area of upstream basin contributing surface water to the area of the wetland unit itself. The area of the basin is less than 10 times the area of the unit points = 5 The area of the basin is 10 to 100 times the area of the unit points = 3 The area of the basin is more than 100 times the area of the unit points = 0 Entire wetland is in the Flats class points = 5	0
Total for D 4 Add the points in the boxes above	0

Rating of Site Potential If score is: __**12-16 = H** ___**6-11 = M** 0 **0-5 = L** *Record the rating on the first page*

D 5.0. Does the landscape have the potential to support hydrologic functions of the site?	
D 5.1. Does the wetland receive stormwater discharges? Yes = 1 No = 0	0
D 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 No = 0	0
D 5.3. Is more than 25% of the contributing basin of the wetland covered with intensive human land uses (residential at >1 residence/ac, urban, commercial, agriculture, etc.)? Yes = 1 No = 0	0
Total for D 5 Add the points in the boxes above	0

Rating of Landscape Potential If score is: __**3 = H** ___**1 or 2 = M** 0 **0 = L** *Record the rating on the first page*

D 6.0. Are the hydrologic functions provided by the site valuable to society?	
D 6.1. Is the unit in a landscape that has flooding problems? Choose the description that best matches conditions around the wetland unit being rated. Do not add points. Choose the highest score if more than one condition is met. The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g., houses or salmon redds): • Flooding occurs in a sub-basin that is immediately downgradient of unit. points = 2 • Surface flooding problems are in a sub-basin farther downgradient. points = 1 • Flooding from groundwater is an issue in the sub-basin. points = 1 • The existing or potential outflow from the wetland is so constrained by human or natural conditions that the water stored by the wetland cannot reach areas that flood. *Explain why* _____ points = 0 • There are no problems with flooding downstream of the wetland. points = 0	0
D 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan? Yes = 2 No = 0	0
Total for D 6 Add the points in the boxes above	0

Rating of Value If score is: __**2-4 = H** ___**1 = M** 0 **0 = L** *Record the rating on the first page*

Wetland name or number #2

RIVERINE AND FRESHWATER TIDAL FRINGE WETLANDS

Water Quality Functions - Indicators that the site functions to improve water quality

R 1.0. Does the site have the potential to improve water quality?		
R 1.1. Area of surface depressions within the Riverine wetland that can trap sediments during a flooding event:		0
Depressions cover >3/4 area of wetland	points = 8	
Depressions cover > ½ area of wetland	points = 4	
Depressions present but cover ≤ ½ area of wetland	points = 2	
No depressions present	points = 0	
R 1.2. Structure of plants in the wetland (areas with >90% cover at person height, **not** Cowardin classes)		0
Trees or shrubs > 2/3 area of the wetland	points = 8	
Trees or shrubs > 1/3 area of the wetland	points = 6	
Herbaceous plants (> 6 in. high) > 2/3 area of the wetland	points = 6	
Herbaceous plants (> 6 in. high) > 1/3 area of the wetland	points = 3	
Trees, shrubs, and ungrazed herbaceous < 1/3 area of the wetland	points = 0	
Total for R 1	Add the points in the boxes above	0

Rating of Site Potential If score is: __**12-16 = H** ___**6-11 = M** 0 **0-5 = L** *Record the rating on the first page*

R 2.0. Does the landscape have the potential to support the water quality function of the site?		
R 2.1. Is the wetland within an incorporated city or within its UGA?	Yes = 2 No = 0	0
R 2.2. Does the contributing basin to the wetland include a UGA or incorporated area?	Yes = 1 No = 0	0
R 2.3. Does at least 10% of the contributing basin contain tilled fields, pastures, or forests that have been clearcut within the last 5 years?	Yes = 1 No = 0	0
R 2.4. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?	Yes = 1 No = 0	0
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions R 2.1-R 2.4? Other sources _____	Yes = 1 No = 0	0
Total for R 2	Add the points in the boxes above	0

Rating of Landscape Potential If score is: __**3-6 = H** ___**1 or 2 = M** 0 **0 = L** *Record the rating on the first page*

R 3.0. Is the water quality improvement provided by the site valuable to society?		
R 3.1. Is the wetland along a stream or river that is on the 303(d) list or on a tributary that drains to one within 1 mi?	Yes = 1 No = 0	0
R 3.2. Is the wetland along a stream or river that has TMDL limits for nutrients, toxics, or pathogens?	Yes = 1 No = 0	
R 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? (Answer YES if there is a TMDL in development or in effect for the drainage in which the unit is found.)	Yes = 2 No = 0	0
Total for R 3	Add the points in the boxes above	0

Rating of Value If score is: __**2-4 = H** ___**1 = M** 0 **0 = L** *Record the rating on the first page*

Wetland name or number #2

RIVERINE AND FRESHWATER TIDAL FRINGE WETLANDS

Hydrologic Functions - Indicators that site functions to reduce flooding and stream erosion

R 4.0. Does the site have the potential to reduce flooding and erosion?

R 4.1. Characteristics of the overbank storage the wetland provides: Estimate the average width of the wetland perpendicular to the direction of the flow and the width of the stream or river channel (distance between banks). Calculate the ratio: (average width of wetland)/(average width of stream between banks). If the ratio is more than 20 If the ratio is 10-20 If the ratio is 5-<10 If the ratio is 1-<5 If the ratio is < 1	points = 9 points = 6 points = 4 points = 2 points = 1	0
R 4.2. Characteristics of plants that slow down water velocities during floods: Treat large woody debris as forest or shrub. Choose the points appropriate for the best description (polygons need to have >90% cover at person height. These are NOT Cowardin classes). Forest or shrub for $>^1/_3$ area OR emergent plants $>^2/_3$ area Forest or shrub for $>^1/_{10}$ area OR emergent plants $>^1/_3$ area Plants do not meet above criteria	points = 7 points = 4 points = 0	0
Total for R 4	Add the points in the boxes above	0

Rating of Site Potential If score is: **__12-16 = H ___6-11 = M ___0-5 = L** *Record the rating on the first page*

R 5.0. Does the landscape have the potential to support the hydrologic functions of the site?

R 5.1. Is the stream or river adjacent to the wetland downcut?	Yes = 0 No = 1	0
R 5.2. Does the upgradient watershed include a UGA or incorporated area?	Yes = 1 No = 0	0
R 5.3. Is the upgradient stream or river controlled by dams?	Yes = 0 No = 1	0
Total for R 5	Add the points in the boxes above	0

Rating of Landscape Potential If score is: **__3 = H ___1 or 2 = M ___0 = L** *Record the rating on the first page*

R 6.0. Are the hydrologic functions provided by the site valuable to society?

R 6.1. Distance to the nearest areas downstream that have flooding problems? Choose the description that best fits the site. The sub-basin immediately downgradient of the wetland has flooding problems that result in damage to human or natural resources (e.g., houses or salmon redds) Surface flooding problems are in a sub-basin farther downgradient No flooding problems anywhere downstream	points = 2 points = 1 points = 0	0
R 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan?	Yes = 2 No = 0	0
Total for R 6	Add the points in the boxes above	0

Rating of Value If score is: **__2-4 = H ___1 = M ___0 = L** *Record the rating on the first page*

Wetland name or number #2

LAKE FRINGE WETLANDS

Water Quality Functions - Indicators that the site functions to improve water quality

L 1.0. Does the site have the potential to improve water quality?		
L 1.1. Average width of plants along the lakeshore (use polygons of Cowardin classes): Plants are ≥33 ft (10 m) wide Plants are ≥16 ft (5 m) wide and <33 ft Plants are ≥6 ft (2 m) wide and <16 ft Plants are less than 6 ft wide	points = 6 points = 3 points = 1 points = 0	0
L 1.2. Characteristics of the plants in the wetland: Choose the appropriate description that results in the highest points, and do not include any open water in your estimate of coverage. The herbaceous plants can be either the dominant form or as an understory in a shrub or forest community. These are not Cowardin classes. Area of cover is total cover in the unit, but it can be in patches. Herbaceous does not include aquatic bed. Cover of herbaceous plants is >90% of the vegetated area Cover of herbaceous plants is $>^2/_3$ of the vegetated area Cover of herbaceous plants is $>^1/_3$ of the vegetated area Other plants that are not aquatic bed > $^2/_3$ unit Other plants that are not aquatic bed in > $^1/_3$ vegetated area Aquatic bed plants and open water cover > $^2/_3$ of the unit	points = 6 points = 4 points = 3 points = 3 points = 1 points = 0	0
Total for L 1	Add the points in the boxes above	0

Rating of Site Potential If score is: **__8-12 = H ___4-7 = M ___0-3 = L** *Record the rating on the first page*

L 2.0. Does the landscape have the potential to support the water quality function of the site?		
L 2.1. Is the lake used by power boats?	Yes = 1 No = 0	0
L 2.2. Is > 10% of the area within 150 ft of wetland unit on the upland side in land uses that generate pollutants?	Yes = 1 No = 0	0
L 2.3. Does the lake have problems with algal blooms or excessive plant growth such as milfoil?	Yes = 1 No = 0	0
Total for L 2	Add the points in the boxes above	0

Rating of Landscape Potential: If score is: **__2 or 3 = H ___1 = M ___0 = L** *Record the rating on the first page*

L 3.0. Is the water quality improvement provided by the site valuable to society?		
L 3.1. Is the lake on the 303(d) list of degraded aquatic resources?	Yes = 1 No = 0	0
L 3.2. Is the lake in a sub-basin where water quality is an issue (at least one aquatic resource in the basin is on the 303(d) list)?	Yes = 1 No = 0	0
L 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? (Answer YES if there is a TMDL in development or in effect for the lake or basin in which the unit is found.)	Yes = 2 No = 0	0
Total for L 3	Add the points in the boxes above	0

Rating of Value If score is: **__2-4 = H ___1 = M ___0 = L** *Record the rating on the first page*

Wetland name or number #2

LAKE FRINGE WETLANDS

Hydrologic Functions - Indicators that the site functions to reduce shoreline erosion

L 4.0. Does the site have the potential to reduce shoreline erosion?	
L 4.1. Distance along shore and average width of Cowardin classes along the lakeshore (**do not** include Aquatic bed): Choose the highest scoring description that matches conditions in the wetland. > ¾ of distance is Scrub-shrub or Forested at least 33 ft (10 m) wide — points = 6 > ¾ of distance is Scrub-shrub or Forested at least 6 ft (2 m) wide — points = 4 > ¼ distance is Scrub-shrub or Forested at least 33 ft (10 m) wide — points = 4 Plants are at least 6 ft (2 m) wide (any type except Aquatic bed) — points = 2 Plants are less than 6 ft (2 m) wide (any type except Aquatic bed) — points = 0	0

Rating of Site Potential: If score is: __6 = M ___0-5 = L *Record the rating on the first page*

L 5.0. Does the landscape have the potential to support the hydrologic functions of the site?		
L 5.1. Is the lake used by power boats with more than 10 hp?	Yes = 1 No = 0	0
L 5.2. Is the fetch on the lake side of the unit at least 1 mile in distance?	Yes = 1 No = 0	0
Total for L 5	Add the points in the boxes above	0

Rating of Landscape Potential If score is: __2 = H ___1 = M ___0 = L *Record the rating on the first page*

L 6.0. Are the hydrologic functions provided by the site valuable to society?	
L 6.1. Are there resources along the shore that can be impacted by erosion? If more than one resource is present, choose the one with the highest score. There are human structures or old growth/mature forests within 25 ft of OHWM of the shore in the unit — points = 2 There are nature trails or other paths and recreational activities within 25 ft of OHWM — points = 1 Other resources that could be impacted by erosion — points = 1 There are no resources that can be impacted by erosion along the shores of the unit — points = 0	0

Rating of Value: If score is: __2 = H ___1 = M ___0 = L *Record the rating on the first page*

NOTES and FIELD OBSERVATIONS:

Wetland name or number #2

SLOPE WETLANDS

Water Quality Functions - Indicators that the site functions to improve water quality

S 1.0. Does the site have the potential to improve water quality?	
S 1.1. Characteristics of the average slope of the wetland: (A 1% slope has a 1 ft vertical change in elevation for every 100 ft of horizontal distance.) Slope is 1% or less — points = 3 Slope is > 1%-2% — points = 2 Slope is > 2%-5% — points = 1 Slope is greater than 5% — points = 0	0
S 1.2. The soil 2 in. below the surface (or duff layer) is true clay or true organic *(use NRCS definitions)*: Yes = 3 No = 0	
S 1.3. Characteristics of the plants in the wetland that trap sediments and pollutants: Choose the points appropriate for the description that best fits the plants in the wetland. Dense means you have trouble seeing the soil surface (>75% cover), and uncut means not grazed or mowed, and plants are higher than 6 in. Dense, uncut, herbaceous plants > 90% of the wetland area — points = 6 Dense, uncut, herbaceous plants > ½ of area — points = 3 Dense, woody, plants > ½ of area — points = 2 Dense, uncut, herbaceous plants > ¼ of area — points = 1 Does not meet any of the criteria above for plants — points = 0	0
Total for S 1 — Add the points in the boxes above	0

Rating of Site Potential If score is: __12 = H ___6-11 = M ___0-5 = L *Record the rating on the first page*

S 2.0. Does the landscape have the potential to support the water quality function of the site?	
S 2.1. Is > 10% of the area within 150 ft on the uphill side of the wetland in land uses that generate pollutants? Yes = 1 No = 0	0
S 2.2. Are there other sources of pollutants coming into the wetland that are not listed in question S 2.1? Other sources _____ Yes = 1 No = 0	0
Total for S 2 — Add the points in the boxes above	0

Rating of Landscape Potential If score is: __1-2 = M ___0 = L *Record the rating on the first page*

S 3.0. Is the water quality improvement provided by the site valuable to society?	
S 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine water that is on the 303(d) list? Yes = 1 No = 0	0
S 3.2. Is the wetland in a basin or sub-basin where water quality is an issue? (At least one aquatic resource in the basin is on the 303(d) list.) Yes = 1 No = 0	0
S 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? (Answer YES if there is a TMDL in development or in effect for the basin in which unit is found.) Yes = 2 No = 0	0
Total for S 3 — Add the points in the boxes above	0

Rating of Value If score is: __2-4 = H ___1 = M ___0 = L *Record the rating on the first page*

Wetland name or number #2

SLOPE WETLANDS

Hydrologic Functions - Indicators that the site functions to reduce flooding and stream erosion

S 4.0. Does the site have the potential to reduce flooding and stream erosion?	
S 4.1. Characteristics of plants that reduce the velocity of surface flows during storms: Choose the points appropriate for the description that best fits conditions in the wetland. Stems of plants should be thick enough (usually > 1/8 in), or dense enough, to remain erect during surface flows. Dense, uncut, **rigid** plants cover > 90% of the area of the wetland — points = 1 All other conditions — points = 0	0

Rating of Site Potential If score is: __**1 = M** ___**0 = L** *Record the rating on the first page*

S 5.0. Does the landscape have the potential to support the hydrologic functions of the site?	
S 5.1. Is more than 25% of the area within 150 ft upslope of wetland in land uses or cover that generate excess surface runoff? Yes = 1 No = 0	0

Rating of Landscape Potential If score is: __**1 = M** ___**0 = L** *Record the rating on the first page*

S 6.0. Are the hydrologic functions provided by the site valuable to society?	
S 6.1. Distance to the nearest areas downstream that have flooding problems: The sub-basin immediately downgradient of site has flooding problems that result in damage to human or natural resources (e.g., houses or salmon redds) — points = 2 Surface flooding problems are in a sub-basin farther downgradient — points = 1 No flooding problems anywhere downstream — points = 0	0
S 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan? Yes = 2 No = 0	0
Total for S 6 — Add the points in the boxes above	0

Rating of Value If score is: __**2-4 = H** ___**1 = M** ___**0 = L** *Record the rating on the first page*

NOTES and FIELD OBSERVATIONS:

Wetland name or number #2

These questions apply to wetlands of all HGM classes.

HABITAT FUNCTIONS - Indicators that site functions to provide important habitat

H 1.0. Does the site have the potential to provide habitat?

H 1.1. Structure of plant community: Indicators are Cowardin classes and strata within the Forested class. Check the Cowardin plant classes in the wetland. Up to 10 patches may be combined for each class to meet the threshold of ¼ ac if the unit is at least 2.5 ac, or more than 10% of the unit if it is smaller than 2.5 ac.

____Aquatic bed
____Emergent
____Scrub-shrub (areas where shrubs have > 30% cover)
____Forested (areas where trees have > 30% cover)

4 structures or more: points = 4
3 structures: points = 2
2 structures: points = 1
1 structure: points = 0

If the unit has a Forested class, check if:

____The Forested class has 3 out of 5 strata (canopy, sub-canopy, shrubs, herbaceous, moss/groundcover) that each cover 20% within the Forested polygon

H 1.2. Hydroperiods

Check the types of water regimes (hydroperiods) present within the wetland. The water regime has to cover more than 10% of the wetland if the unit is < 2.5 ac, or ¼ ac if the unit is at least 2.5 ac to count (see text for descriptions of hydroperiods).

____Permanently flooded or inundated
__✓__Seasonally flooded or inundated
____Occasionally flooded or inundated
____Saturated only

4 or more types present: points = 3
3 types present: points = 2
2 types present: points = 1
1 type present: points = 0

____Permanently flowing stream or river in, or adjacent to, the wetland
____Intermittently or seasonally flowing stream in, or adjacent to, the wetland
____**Lake Fringe wetland** **2 points**
____**Freshwater tidal wetland** **2 points**

H 1.3. Richness of plant species

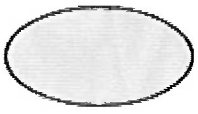
Count the number of plant species in the wetland that cover at least 10 ft^2.

Different patches of the same species can be combined to meet the size threshold and you do not have to name the species. **Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Canada thistle**

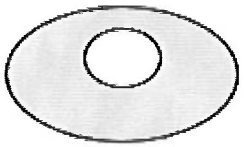
If you counted: > 19 species points = 2
5 - 19 species points = 1
< 5 species points = 0

H 1.4. Interspersion of habitats

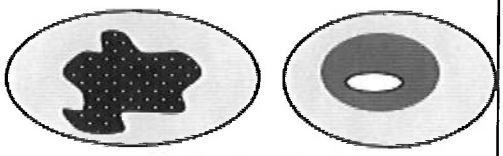
Decide from the diagrams below whether interspersion among Cowardin plants classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or none. If you have four or more plant classes or three classes and open water, the rating is always high.



None = 0 points

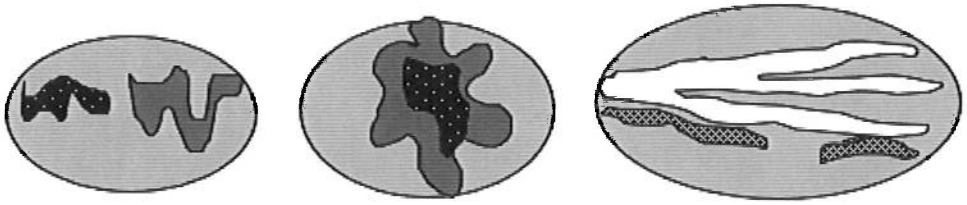


Low = 1 point



Moderate = 2 points

All three diagrams in this row are **High** = 3 points



Wetland name or number #2

H 1.5. Special habitat features: Check the habitat features that are present in the wetland. The number of checks is the number of points. ____Large, downed, woody debris within the wetland (> 4 in. diameter and 6 ft long). ____Standing snags (dbh > 4 in.) within the wetland ____Undercut banks are present for at least 6.6 ft (2 m) **and/or** overhanging plants extend at least 3.3 ft (1 m) over open water or a stream (or ditch) in, or contiguous with the wetland, for at least 33 ft (10 m) ____Stable steep banks of fine material that might be used by beaver or muskrat for denning (> 30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet weathered where wood is exposed) ____At least ¼ ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by amphibians) ____Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 above for the list of strata and H 1.5 in the manual for the list of aggressive plant species)	0
Total for H 1 Add the points in the boxes above	0

Rating of Site Potential If score is: __**15-18 = H** ___**7-14 = M** ___**0-6 = L** *Record the rating on the first page*

H 2.0. Does the landscape have the potential to support the habitat functions of the site?	
H 2.1. Accessible habitat (include only habitat polygons accessible from the wetland. *Calculate:* % relatively undisturbed habitat___ + [(% moderate and low intensity land uses)/2]___ = _____% Total accessible habitat is: > 1/3 (33.3%) of 1 km Polygon points = 3 20-33% of 1 km Polygon points = 2 10-19% of 1 km Polygon points = 1 < 10% of 1 km Polygon points = 0	1
H 2.2. Total habitat in 1 km Polygon around the wetland. *Calculate:* % relatively undisturbed habitat___ + [(% moderate and low intensity land uses)/2]___ = _____% Total habitat > 50% of Polygon points = 3 Total habitat 10-50% and in 1-3 patches points = 2 Total habitat 10-50% and > 3 patches points = 1 Total habitat < 10% of 1 km Polygon points = 0	1
H 2.3. Land use intensity in 1 km Polygon: > 50% of 1 km Polygon is high intensity land use points = (- 2) ≤ 50% of 1 km Polygon is high intensity points = 0	0
Total for H 2 Add the points in the boxes above	2

Rating of Landscape Potential If score is: __**4-6 = H** ___**1-3 = M** ___**< 1 = L** *Record the rating on the first page*

H 3.0. Is the habitat provided by the site valuable to society?	
H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? *Choose only the highest score that applies to the wetland being rated.* Site meets ANY of the following criteria: points = 2 — It has 3 or more Priority Habitats within 100 m (see next page) — It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists) — It is mapped as a location for an individual WDFW Priority Species — It is a Wetland of High Conservation Value as determined by the Department of Natural Resources data — It has been categorized as an important habitat site in a local or regional comprehensive plan, in a Shoreline Master Plan, or in a watershed plan Site has 1 or 2 Priority Habitats (listed on next page) within 100 m points = 1 Site does not meet any of the criteria above points = 0	0

Rating of Value If score is: __**2 = H** ___**1 = M** ___**0 = L** *Record the rating on the first page*

Geosyntec consultants

engineers | scientists | innovators

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Subject Property:

West Edgewood Drive and South Critchfield Road
Port Angeles, Washington 98363

Prepared by

Geosyntec Consultants, Inc.
520 Pike Street, Suite 2600
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Project Number: PNR0651RW1/1111A

Issued Date: 27 December 2024
Update Required After: 11 June 2025
New Report Required After: 13 December 2025

EXECUTIVE SUMMARY

This Executive Summary presents the results of the Phase I Environmental Site Assessment (ESA) performed by Geosyntec Consultants, Inc. (Geosyntec) for the property located at West Edgewood Drive and South Critchfield Road, Port Angeles, Washington 98363 (the "Subject Property" or "Site"). This Phase I ESA was prepared in accordance with the scope of work, terms and conditions described in Geosyntec's proposal dated 21 November 2023

This Phase I ESA was performed in accordance with ASTM Standard E1527-21. The objective of performing this Phase I ESA was to identify, to the extent feasible, "Recognized Environmental Conditions" (RECs) at the Subject Property as the "REC" term is defined by ASTM E1527-21.

The Subject Property is an approximately 25-acre property that is owned by Delhur Industries Inc. The Subject Property currently consists of cleared land and a stormwater system, including two stormwater ponds. The Subject Property is not currently developed with structures. Based on historical records and an interview with the current Subject Property owner representatives, John Doyle and Sam Hurworth of Delhur Industries Inc., former uses of the Subject Property include farmland used to grow wild hay for animal feed.

The vicinity has largely been used for agricultural and residential purposes, and some commercial uses. William R Fairchild International Airport is located approximately 0.25 miles northeast of the Subject Property.

Because no buildings are presently on the Subject Property, asbestos-containing materials (ACM), lead-based paint (LBP), and/or water damage/mold in buildings were not identified in buildings at the Subject Property during preparation of this Phase I ESA.

The Phase I ESA performed by Geosyntec has revealed the following conditions as defined by ASTM:

De Minimis Conditions

- **Historical Agricultural Land Use:** Historical Subject Property documents and aerial photographs indicated that portions of the Subject Property were cleared from approximately the 1930s through the 1960s for what appeared to be crop lands and/or pastures. Based on the timeframe of the observed clearings, it is possible that petroleum products or hazardous pesticides, herbicides, or fertilizer originating from biosolids that have the potential to contain hazardous substances were used on the Subject Property; however, no evidence of this usage or application was found as part of this Phase I ESA. Therefore, this finding is not a REC but rather a de minimis condition.

Additional Findings

Per ASTM E1527-21, *"[s]ome findings, but not necessarily all findings, may be indicative of the presence of"* RECs, CRECs, HRECs, or de minimis conditions.

- **Potential Septic System and Heating Oil Tanks:** The current owner of the Subject Property said they removed a concrete foundation from the west side of the Subject Property in 2015 or 2016. The historical topographic maps show a possible structure on the western side of the Subject Property between 1950 and 1985, although no structures are visible in the historical aerial photographs. It is possible there was a septic system and heating oil tank associated with this structure, but it is unknown if they did exist in relation to the historical structure.

- **Vicinity Airport Land Use:** William R Fairchild International Airport is located approximately 0.25 miles northeast, and hydrologically down and cross-gradient from the Subject Property. ERIS identified this property as a Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Site, however, there are no records of a historical or active release. Additionally, while Ecology lists the Airport as awaiting clean up, the property is not listed on federal database associated military sites. Due to the hydrologic position (down and cross-gradient) and nature of the information about the airport, this is considered an additional finding.

Following investigation, it appears that "data gaps" as defined by ASTM exist for the Subject Property. However, in Geosyntec's opinion, none are considered to be significant with respect to identification of additional RECs for the Subject Property.

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1. INTRODUCTION

Geosyntec Consultants, Inc. (Geosyntec) was retained to perform a Phase I Environmental Site Assessment (ESA) for the property located at West Edgewood Drive and South Critchfield Road, Port Angeles, Washington 98363 (the "Subject Property" or "Site").

The Subject Property location, a recent layout, and Subject Property vicinity are provided on the appended Figures.

1.1 Purpose

This Phase I ESA was conducted in general accordance with the scope and limitations of the guidance contained within the ASTM International (ASTM) Practice ASTM Practice E1527-21 and is intended to meet the "All Appropriate Inquiries" (AAI) rule. Deviations or exceptions to the guidance contained in the ASTM E1527-21 standard of practice are described in Section 1.4. The intent of Geosyntec's effort is to provide the User with a Phase I ESA that includes a search for the existence of potential or known surface or subsurface environmental impacts at the Subject Property.

The Phase I ESA was conducted to identify, to the extent feasible, "Recognized Environmental Conditions[1]" (RECs) at the Subject Property, as the "REC" term is defined by ASTM E1527-21. This REC definition eliminates from consideration a number of conditions that could fall under the general definition of "environmental" issues and focuses the Phase I ESA on known or potential releases of hazardous substances and petroleum products that Geosyntec believes could have impacted the soil, groundwater, and/or soil vapor at the Subject Property. Such conditions include radon, wetlands, etc.; unless in the case where these out of scope items are specifically included in the Client's scope of work (see Section 8).

1.2 Scope of Services

The Phase I ESA scope of work included: (i) review of pertinent information/documents (ii) review of environmental

[1] As defined by ASTM E1527-21, a Recognized Environmental Condition is: "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.. "

databases for the Subject Property and in the vicinity of the Subject Property pursuant to the ASTM E1527-21 Standard; (iii) review of historical land usage via historical aerial photographs, fire insurance maps, city directories, and U.S. Geological Survey (USGS) topographic maps, and past reports on the Subject Property, as available; (iv) a Subject Property visit to perform a visual reconnaissance of the major Subject Property features; and (v) a report. In addition, as non-scope items, Geosyntec also reviewed the building/structure age (if present), and if available, historical information regarding lead-based paint (LBP), asbestos-containing materials (ACM), and water and mold. These non-scope items are discussed in Section 8.

This Phase I ESA was conducted under the supervision of Wendy Key, a Client Program Manager, who is an "Environmental Professional" (as defined under the ASTM Practice E1527-21). Under their direction and oversight, the Subject Property visit was conducted on 18 December 2024 by Jobe Traywick of Geosyntec and the report was drafted by McKenzie Elliott and peer reviewed by Maddy Ferry. This report was senior reviewed by Erin Dunbar, who is also an Environmental Professional. The professional qualifications of the individuals above are presented in Appendix F.

1.3 Significant Assumptions

Except as may be noted in Geosyntec's proposal, no significant assumptions were taken into account by Geosyntec as part of this project.

1.4 Limitations, Deviations, and Exceptions

This Phase I ESA was performed
consistent with the ASTM Practice E1527-21, except as follows:

- In accordance with the Client agreed-to scope of work associated with this Phase I ESA, Geosyntec did not interview local agency personnel. Due to time limitations on preparing the Phase I ESA, review of agency files pertaining to the Subject Property and surrounding properties was limited to online resources only.
- Geosyntec tried to obtain information to allow an interview but was unable to interview former owners/operators of the Subject Property pursuant to ASTM E1527-21 guidance. Specifically, this inability to interview the prior owner/occupant affected our ability to identify former Subject Property operations. This data gap has been considered in our opinion on Findings.
- Heavily vegetated areas were not viewed, and water bodies were not entered.

This Phase I ESA contains a property description and history, an environmental database review, a summary of visual observations made during the site reconnaissance, and descriptions of information obtained during interview(s) of person(s) knowledgeable with the Subject Property. The findings and conclusions presented in this Phase I ESA are the result of professional

interpretation of the information collected at the time of this study. The Phase I ESA does not necessarily include an exhaustive search of all available records nor does it include detailed assessment of all Phase I ESA findings. Therefore, Geosyntec cannot "certify" or guarantee that any property is free of environmental impairment; no warranties regarding the environmental quality of the property are expressed or implied.

1.5 Special Terms and Conditions

Except as may be noted in Geosyntec's proposal, no special contractual terms or conditions were taken into account as part of this project.

1.6 User Reliance

Except as specifically set forth in Geosyntec's proposal to Client to perform this work, no other party shall have the right to rely on Geosyntec's opinions rendered in connection with the Services without Geosyntec's written consent which may be conditioned on the third party's agreement to be bound to acceptable conditions and limitations similar to this Agreement. Please note that Geosyntec's consent to provide a right-to-rely on this report is subject to Client's approval and to agreement to Geosyntec's terms and conditions associated with Geosyntec's performance of this specific scope of work.

2. SUBJECT PROPERTY DESCRIPTION

This section provides a description of the key characteristics of the Subject Property. This description is derived from information provided by the Client and information gathered during the reconnaissance unless referenced otherwise.

2.1 Subject Property Location and General Characteristics

The Subject Property is an approximately 25-acre property (Clallam County Parcel ID 0730121200750000) located on the northwest corner of the intersection of South Critchfield Road and West Edgewood Drive in Port Angeles, Washington. The Subject Property is currently owned by Delhur Industries, Inc. General vicinity use consists of residential, agricultural and commercial properties in addition to an airport. The Subject Property location and layout are shown in the Figures. A legal description of the Subject Property was not provided to Geosyntec. Current tax parcel/map information is provided in Appendix C.

2.2 Current and Former Uses of the Subject Property

The Subject Property currently consists of cleared land and a stormwater system, including two stormwater ponds. The Subject Property is not currently developed with structures.

Former uses of the Subject Property include farmland used to grow wild hay for animal feed.

2.3 Current and Former Uses of Adjoining and Surrounding Notable Properties

The vicinity surrounding the Subject Property is currently a mix of commercial, residential, farmland, and forested properties. Current adjoining uses are summarized below:

- North – South Critchfield Road followed by Olympic RC Modelers (a model aircraft sports club flying site) and William R Fairchild International Airport;
- East – South Critchfield Road followed by private residential properties, and Mitch Gray Inc. (culvert pipe and driveway installation business);
- South – West Edgewood Drive followed by private residential properties, Awesome Costumes; and
- West – Dry Creek with a heavily vegetated buffer zone followed by Extreme Sports Park and ASB Pro Racing Series Sports Club, includes a sprint boat race track, monster truck arena, jeep and off road vehicle race track, and fairgrounds.

Former uses of the vicinity include use as farmland.

Note – William R Fairchild Airport is located to north and northeast, approximately 0.25-miles from the Subject Property.

2.4 Physical Setting

2.4.1 Topography and Geology

The Subject Property is depicted on the USGS 7.5-minute quadrangle map, Elwha, Washington. Geosyntec obtained a physical setting report for the area of the Subject Property from Environmental Risk Information Services (ERIS). According to the ERIS report (Appendix E), the Subject Property has an elevation of approximately 308 feet above mean sea level with a decreasing topographic gradient to the north-northeast. The ERIS report identified Subject Property soils largely as Clallam gravelly sandy loam and Bellingham silty clay loam. According to geologic information provided in the ERIS report, the Subject Property vicinity is underlain by Pleistocene-aged glacial drift consisting of sands and gravels.

2.4.2 Hydrology

According to the USGS quadrangle map, Dry Creek is located along the western boundary of the Subject Property. According to the US Fish and Wildlife Service, riverine habitat is located along the western boundary of the Subject Property (Dry Creek). The Subject Property is located in an area of minimal flood hazard as indicated on the Federal Emergency Management Agency Flood Insurance Rate Map for the Subject Property.

In general, groundwater flow direction may vary depending on area groundwater pumping, surface water bodies, land use and development, localized topography, and other macro and micro features. According to a Groundwater Quarterly Monitoring Report by Krazen and Associates, Inc., groundwater flow is to the north and present at a depth of 3.5-5 feet below ground surface (bgs) based on measured groundwater elevations from 2024 (Krazen 2024, Appendix D).

ERIS conducted a search of federal and state water well databases within one-mile of the Subject Property. No wells were identified on the Subject Property.

3. USER-PROVIDED INFORMATION

Per ASTM E1527-21, a User Questionnaire was provided to the User to inquire about specialized information related to the Subject Property. To date, a completed questionnaire has not been provided to Geosyntec; the User indicated that they have no specialized knowledge of environmental conditions on the Subject Property beyond that described in Section 3.3 below.

3.1 Title Records

Geosyntec was not provided with and did not review title records for the Subject Property. A property title search was not included in the scope of Geosyntec's services.

3.2 Environmental Liens or Activity and Use Limitations

The User did not provide Geosyntec with records for liens or activity and use limitations for the Subject Property.

3.3 Specialized Knowledge

The User did not indicate it had specialized knowledge of environmental conditions on the Subject Property.

3.4 Commonly Known or Reasonably Ascertainable Information

The User did not indicate it had commonly known or reasonably ascertainable information (as defined in AAI) regarding the Subject Property.

3.5 Valuation Reduction for Environmental Issues

The User has not informed Geosyntec regarding whether or not the valuation of the Subject Property has been reduced or otherwise impacted by environmental issues (as defined in AAI) at the Subject Property.

3.7 Reason for Performing This Phase I ESA

Geosyntec understands that the Client engaged Geosyntec to perform this Phase I ESA for the Subject Property to identify "Recognized Environmental Conditions" (as defined in ASTM E1527-21) and potential environmental liabilities associated with the Subject Property in preparation for purchasing the Subject Property.

3.8 Additional Information

The User provided Geosyntec with an aerial image with an outline of the Subject Property. A copy is included in Appendix B.

4. RECORDS REVIEW

Geosyntec's records review consisted of the following, to the extent available and reasonably ascertainable within the timeframe of the report preparation: i) review of identified federal, state, and local environmental databases; ii) review of historical aerial photographs; iii) review of historical topographic maps; iv) review of city directories; v) review of select public and Client/owner-provided records related to environmental matters; and vi) review of available property tax information.

4.1 Environmental Database Search

4.1.1 Overview

Geosyntec contracted with ERIS to provide portions of the records reviewed as described below. The environmental database search was performed by ERIS and provided to Geosyntec on 13 December 2024 in an attempt to ascertain whether the Subject Property or neighboring properties were suspected of having environmental conditions that could have impacted the surface or subsurface at the Subject Property. Specific records and search distances (from the approximate Subject Property boundaries) for the environmental databases were reported by ERIS to be consistent with ASTM Practice E1527-21 and are discussed in the ERIS Database Report (presented in Appendix E). Database descriptions are also included in the ERIS report. Relevant results for the Subject Property and vicinity are discussed in the following sections.

4.1.2 Results – Subject Property

The Subject Property is listed the Facility Sites Identification System (ALL SITES) and Facility Registry Service and Facility Index (FINDS/FRS) as Critchfield Road Property. No address was provided by ERIS. According to this listing, the Subject Property has an active construction stormwater permit through Washington State Department of Ecology (Ecology).

Refer to Section 4.4.2 for further discussion.

4.1.3 Results – Vicinity Sites

ERIS identified five listings within 0.25 miles of the Subject Property and 21 listings within one-mile of the Subject Property. Upon reviewing the listings in databases potentially indicative of release (e.g., leaking underground storage tanks, cleanup sites) or in a database indicative of solid waste disposal (SWF/LF) or land use concerns (e.g., historical military sites), the following are either adjoining or are considered to have at least a moderate potential to have impacted the soil, groundwater, and/or soil vapor at the Subject Property:

- Dry Creek Road (located on the southern adjoining property, hydrologically upgradient) is listed on the FINDS/FRS database. According to this listing, this property has a construction stormwater permit. No other information was provided by ERIS. Based on the information provided in the listing this property is not expected to have impacted the Subject Property.
- A2Z Enterprises LLC and Extreme Sports Park at 2917 West Edgewood Drive (located on the western adjoining property, hydrologically cross-gradient) is listed on the ALLSITES, Integrated Compliance Information System (ICIS), and FINDS/FRS database. According to these listings, this property was registered with Ecology's Water Resources Program and underwent compliance enforcement activities. No other information was provided by

ERIS. Based on the information provided in the listing this property is not expected to have impacted the Subject Property.

- WM R Fairchild International Airport (located approximately 0.25 mile to the north-northwest, hydrologically down and cross-gradient) is listed on the Per- and Poly-Fluoroalkyl Substances Industry Sectors (PFAS IND) databases. According to the listing, this property was identified with a North American Industry Classification System (NAICS) code identified by the United States Environmental Protection Agency (USEPA) in an industry that may be handing PFAS. The facility has an active National Pollutant Discharge Elimination System (NPDES) permit regulated under the Clean Water Act (CWA) with a violation identified. No further information was provided. The PFAS IND database does not indicate PFAS related release or investigation records. This property is discussed further in Section 4.4.3.
- Murrays & American Disposal (Waste Connections) (located approximately 0.34 mile to the east-southeast and hydrologically cross to up gradient) is listed on the Solid Waste Facility/Land Fill (SWF/LF) database. According to this listing this property is a recycling facility and has operated since1900. This facility reports to the Southwest Regional Office of Washington State Department of Ecology. No other information was provided by ERIS. Based on the information provided by ERIS this property is not expected to have impacted the Subject Property.

4.1.4 Unplottable Sites

ERIS identified no "unplottable sites" which are sites that could not be mapped by ERIS due to the lack of sufficient address information.

4.2 Historical Use Information

Geosyntec contracted ERIS to provide standard historical records, including aerial photographs, topographic maps, fire insurance maps, and city directories. The following documents were provided on 17-20 December 2024 to Geosyntec for review and are included in Appendix E:

- Historical aerial photographs – 1939, 1944, 1956, 1963, 1976, 1981, 1990, 1994, 2004, 2005, 2006, 2009, 2011, 2013, 2015, 2017, 2020, 2021, 2023;
- Historical topographic maps – 1919, 1950, 1959, 1978, 1985, 2017, 2020;
- Fire insurance maps – Requested, but no coverage was identified by ERIS; and

- City directories – 1936, 1941, 1948, 1952, 1956, 1959, 1962, 1965, 1970, 1975, 1980, 1984, 1988, 1991, 1995, 2000, 2003, 2008, 2012, 2016, 2020, and 2023.

Additional satellite imagery was reviewed using Google Earth for the following year: 2024. A summary of the findings from the review of the historical sources is provided in Table 1 and is summarized below:

- Subject Property – Based on aerial photograph and topographic map review, the Subject Property was agricultural land from at least 1919 to 2015. Dry Creek and a vegetated buffer were depicted on the western border of the Subject Property. In the 1950 through 1985 topographic maps, one structure was depicted on the western portion of the Subject Property, a possible structure was visible on the southwestern portion of the Subject Property in 1994. In 2017 grading activities were observed across the Subject Property and by 2020 two stormwater retention ponds were observed, located on the northeastern and western portions of the Subject Property. Additionally, the storage of equipment was intermittently observed. The Subject Property appeared similar through 2024. There were no City Directory listings for the Subject Property.

- Surrounding vicinity – Based on topographic map and aerial photograph review, the vicinity was primarily agricultural, vegetated, and forested land, with dispersed residences and farm structures from at least 1919 to 1990. The roads that border the Subject Property were present in the earliest topographic map from 1919. A logging railroad and marshland were depicted in the vicinity of the Subject Property in 1919.By 1950, the Clallam County Airport was depicted on the topographic maps in the vicinity and was later expanded in 1981. In 1994, apparent residences were constructed on east adjoining properties. What appear to be a racetrack, structures and a pond have been located approximately 492 feet to the west since at least 2011. The vicinity remained similar through 2024. There were no City Directory listings for the vicinity until 1991. After 1991, listings included residential properties, commercial businesses, and groups associated with the airport like US Air Force Civil Air Patrol. In summary, the review of aerial photographs, topographic maps, and city directories revealed usages (agriculture) that could be indicative of hazardous materials/chemical storage, management/usage, or disposal at the Subject Property or in the immediate vicinity that could pose a threat to the soil, groundwater, and/or soil vapor quality at the Subject Property.

4.3 Property Tax Records

Geosyntec searched online Clallam County real estate data to obtain records associated with the Subject Property. Documents obtained indicated the Subject Property is currently owned by Delhur Industries Inc. No additional information was found regarding previous owners. The retrieved tax map parcel information is provided as Appendix C to this report.

4.4 Local, County, State, and Federal Files

Geosyntec searched local, county, state, and federal agencies' online databases to search for records regarding the Subject Property. In accordance with the Client agreed-to scope of work associated with this Phase I ESA, no additional agency records were reviewed unless specified below in an effort to address a significant data gap. Relevant information is summarized below.

4.4.1 Local and County Records

Geosyntec searched the City of Sequim Public Records[2] website on 17 December 2024 and did not find any online databases to search.

Geosyntec searched the City of Port Angeles Public Records[3] website on 17 December 2024 where public records, including building records, were available for online search. No Subject Property records were found during the search.

Geosyntec searched the Clallam County Public Records[4] website on 17 December 2024 where public records were available for online search. No Subject Property records were found during the search.

4.4.2 State Records

Geosyntec searched the Washington State Department of Ecology What's in My Neighborhood[5] website on 17 December 2024 where public records are available for environmental cleanup projects identified by Ecology. The Subject Property and adjoining properties were not identified as having active or historical cleanup activities.

William R Fairchild International Airport, located approximately 0.25-miles north-northwest, is identified as "FUDS PORT ANGELES AAF" by Ecology as awaiting clean up. A 1999 Initial Investigation Report prepared by Ecology highlighted the use of the Clallam County Airport by the United States Military during the 1940's as a satellite facility to the McChord Base in Tacoma, Washington. According to the report there were four 25,000-gallon underground storage tanks (USTs) on the airport property. The report noted there was potential for these tanks to have leaked fuel. The report also noted samples were collected near a maintenance shop and contaminants were detected in soil including lubricating oil and lead. There are no additional documents highlighting cleanup activities on Ecology's website (Ecology, 1999; Appendix D).

[2] Community Development | Sequim, WA - Official Website
[3] COPA
[4] Document Search
[5] What's In My Neighborhood

Geosyntec searched the Washington State Department of Ecology Dirt Alert[6] website on 17 December 2024 where areas impacted by historical smelter plumes are identified and outlined. The Subject Property was not identified within these areas.

Geosyntec also searched Ecology's former Orchard Lands Viewer[7] for information on former orchards that may have lead arsenate impacts from pesticide use. The Subject Property was not identified on ground that was occupied by an orchard during the era when lead arsenate was used as a pesticide.

Geosyntec searched the Washington State Well Report Viewer[8] website on 17 December 2024 for information on location, ownership, construction details and lithology for completed wells. No records were available for the Subject Property.

4.4.3 Federal Records

Review of the USEPA Enforcement and Compliance History Online (ECHO)[9] database on 18 December 2024 for records in connection with the Subject Property and adjoining properties. This database is used to track compliance, releases, and other information for facilities handling hazardous materials. The Subject Property, identified as the Critchfield Rd. Property, had an identified "limit violation" in 2022 under the Clean Water Act (CWA), and then the permit associated with the Subject Property was terminated in early 2024. Alpine Auto Inc, located on the southern adjoining property, has multiple identified violations failures to report data for their Discharge Monitoring Permit (DMR) in the last thirteen quarters.

Review of the USEPA National Priorities List (NPL)[10] database on 18 December 2024 did not reveal records in connection with the Subject Property or surrounding properties. This database lists sites of national priority among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States and its territories.

Review of the Air Force Civil Engineer Center website[11] and Base Realignment and Closures Sites website[12] on 18 December 2024 did not reveal any military sites in the vicinity of the Subject Property.

On 18 December 2024, Geosyntec reviewed the Formerly Used Defense Sites (FUDS) database[13], which did not reveal any FUDS in the vicinity of the Subject Property. While the William R

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[6] Former Orchard Lands

[7] https://apps.ecology.wa.gov/dirtalert/orchard?lat=46.598402&lon=-120.466611&zoom=16

[8] Well Report Map Search

[9] https://echo.epa.gov

[10] https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=33cebcdfdd1b4c3a8b51d416956c41f1

[11] Administrative Record Search (af.mil)

[12] https://www.epa.gov/fedfac/base-realignment-and-closure-brac-Sites-state

[13] Formerly Used Defense Sites (FUDS) Viewer - FY22 Data

Fairchild International Airport is identified as "FUDS PORT ANGELES AAF" by Ecology, the facility was not identified on the FUDS database.

4.5 Client- or Owner-Provided Environmental Assessment Documents

Documentation was provided to Geosyntec by Eric Seamunds (current realtor for the User) on 18 December 2024 A discussion of pertinent documentation is provided below, and copies are included in Appendix D.

- Aggregate Source Approval Report prepared by Washington State Department of Transportation (WSDOT) dated 18 December 2024. The document was provided in association with fill material used at the Subject Property for the development of the Subject Property stormwater system. The document stated that the aggregates were tested and approved for certain uses, but no information regarding testing for environmental contamination was provided.
- Site Plan prepared by Zenovic & Associated Incorporated dated 26 February 2020.
- Operation and Maintenance Manual for Critchfield Industrial Parcel prepared by Delhur Industries INC dated 3 September 2024. Based on the document, the Critchfield Industrial Parcel occupied 25.55 acres, and it is located on the Critchfield Road at the intersection of W Edgewood Drive and Critchfield Road. The stormwater infrastructure included the detention pond with outlet control structure, energy dissipaters, and type 1P catch basins.
- Clallam County Road Approach Permit Form (Permit No. 2017-00149) dated 21 August 2017.
- Covenant for Maintenance, Repair and Operation of Storm Drainage Facilities for the Critchfield Industrial Parcel dated 3 September 2024.

5. SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

A reconnaissance of the Subject Property was conducted by Geosyntec representative Jobe Traywick on 18 December 2024, escorted by John Doyle and Sam Hurworth, both representatives of Delhur Industries, Inc. To meet assessment objectives, Geosyntec first traversed the perimeter then central areas of the Subject Property. Photographs taken during the reconnaissance are included in Appendix A. Adjoining properties were peripherally observed from the perimeter of the Subject Property.

As part of the site reconnaissance, Geosyntec looked for evidence of the presence of hazardous substances used, stored, or discarded, and inspected the Subject Property for areas of disturbed or discolored soil, suspect equipment and/or building materials which may contain hazardous

substances, areas of distressed vegetation, wastewater discharge areas, storage tanks/septic systems, waste management/disposal areas, lagoons, pits, sumps, surface water management areas, and stained surfaces. Except as noted in Section 1.4, no limiting conditions were encountered.

5.2 Utility Service & Materials Management Provider Information

At the time of the site visit, no utilities were provided (i.e., electricity, potable water/sewer, soil waste disposal, and/or natural gas) to the Subject Property. Electricity in the area is provided by Port Angeles City Light and drinking water supply is provided by Dry Creek Water Association. Overhead electrical lines were observed along the eastern and southern perimeter of the Subject Property, on South Critchfield Road and West Edgewood Drive. No used oil, hazardous waste, or used batteries were reportedly generated at the Subject Property.

5.3 Interior and Exterior Observations

Observations made by Geosyntec during the Subject Property reconnaissance are documented as follows:

Geosyntec Site Reconnaissance Observations		
ASTM Section	**Feature or Condition**	**Description**
Interior and Exterior Observations		
9.4.11 & 9.4.16	Hazardous Substances or Petroleum Products	No hazardous substances or petroleum products were observed.
9.4.12	Underground Storage Tanks (USTs)	No evidence of USTs was identified.
9.4.12	Aboveground Storage Tanks (ASTs)	No evidence of ASTs was identified.
9.4.13	Odors	No notable odors were identified.
9.4.14	Pools of Liquids	No pools of liquid indicative of a chemical release were identified.
9.4.15	Drums and Containers > 5 Gallons	No drums or containers greater than five gallons were observed.
9.4.17	Unidentified Substances/Containers	No unidentified containers were identified.
9.4.18	Polychlorinated Biphenyl (PCB) Items	No transformers or other PCB containing materials were observed on the Subject Property.
Interior Observations		
9.4.19	Heating and Cooling Systems	Not applicable.
9.4.20	Stains/Corrosion	Not applicable.
9.4.21	Drains and Sumps	Not applicable.
Exterior Observations		
9.4.22	Pits, Ponds, or Lagoons	No pits, ponds, or lagoons were observed.

Geosyntec Site Reconnaissance Observations		
ASTM Section	**Feature or Condition**	**Description**
9.4.23	Stained Soil or Pavement	No areas of staining indicative of potential subsurface contamination were observed at the Subject Property.
9.4.24	Stressed Vegetation	No obviously stressed vegetation indicative of a chemical discharge or application was observed at the Subject Property.
9.4.25	Solid Waste	No solid waste disposal was observed on the Subject Property.
9.4.26	Wastewater or Stormwater Discharge	No wastewater discharge was observed at the Subject Property. Stormwater at the Subject Property drains into storm drains, swales, and drainage ditches that diverts stormwater runoff into two stormwater ponds and an underground gravel detention system on the northern and western portions of the Subject Property.
9.4.27	Wells	No wells (water production or monitoring) were observed at the Subject Property.
9.4.28	Septic Systems	No evidence of septic systems was observed at the Subject Property during Geosyntec's visit.

5.4 Adjoining Property Reconnaissance

Geosyntec did not visit the adjoining properties but did observe them from vantage points on the Subject Property and on public roads near the Subject Property. Our limited inspection of adjoining and vicinity properties did not reveal conditions suggesting obvious environmental impairments with the ability to impact the Subject Property at the adjoining properties during the time of our Subject Property reconnaissance.

6. INTERVIEWS

6.1 Interview with Current Owner/Occupant

On 18 December 2024, Geosyntec conducted an in-person interview with Sam Hurworth CEO of Delhur Industries, Inc and John Doyle Executive Vice President of Delhur Industries. Sam Hurworth indicated they have been associated with the Subject Property since 2015. Sam Hurworth and John Doyle supplied information regarding Subject Property features, operations, and history.

The site contacts stated the Subject Property was formerly occupied by Critchfield family farmland used for growing wild hay for animal feed. A foundation (likely related to a historical farmhouse) was uncovered during an excavation for the installation of a stormwater system at the Subject Property. The site contacts also indicated lead pipes were dug out from this location circa 2015 or 2016. The contacts did not have knowledge on the presence of potential septic or heating oil tanks associated with the structure.

In addition, the site contacts indicated structural fill material from the Delhur Rock Quarry was used throughout the Subject Property during installation of the stormwater drainage system. The contacts provided an aggregate source approval document for the fill material.

The information gathered during the interview is included in this document.

6.2 Interview with Previous Owner/Occupant

Geosyntec was not provided with contact information for any of the former property owners; Geosyntec did not conduct an interview with former owner representatives.

6.3 Interview with Local Agencies

In accordance with the Client agreed-to scope of work associated with this Phase I ESA, Geosyntec did not interview local agency personnel.

7. FINDINGS, OPINIONS, AND DATA GAPS

In the following sections, Geosyntec presents our findings and opinions, data gaps, and conclusions (Sections 7.1 through 7.3) regarding any identified RECs, Controlled RECs (CRECs), Historical RECs (HRECs), de minimis conditions, and/or additional findings associated with the Subject Property.

7.1 Findings and Opinions

Geosyntec has performed a Phase I Environmental Subject Property Assessment in conformance with the scope and limitations of ASTM Practice E1527-21 of the Subject Property described herein. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. The Phase I ESA performed by Geosyntec has revealed the following conditions as defined by ASTM:

RECs

As defined by ASTM E1527-21, a REC is: *"(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment."*

No RECs were identified during the course of this assessment.

CRECs

As defined by ASTM E1527-21, a CREC is a "*recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).*"

No CRECs were identified during the course of this assessment.

HRECs

As defined by ASTM E1527-21, an HREC is "*a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations. A historical recognized condition is not a recognized environmental condition."*

No HRECs were identified during the course of this assessment.

De Minimis Conditions

As defined by ASTM E1527-21, a de minimis condition is "a condition *related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.*"

Based on the information Geosyntec obtained, Geosyntec has concluded that the following findings do not meet the definition of a REC, CREC or HREC and are de minimis conditions:

- **Historical Agricultural Land Use:** Historical Subject Property documents and aerial photographs indicated that portions of the Subject Property were cleared from approximately the 1930s through the 1960s for what appeared to be crop lands and/or pastures. Based on the timeframe of the observed clearings, it is possible that petroleum products or hazardous pesticides, herbicides, or fertilizer originating from biosolids that have the potential to contain hazardous substances were used on the Subject Property; however, no evidence of this usage or application was found as part of this Phase I ESA. Therefore, this finding is not a REC but rather a de minimis condition.

Additional Findings

Per ASTM E1527-21, *"[s]ome findings, but not necessarily all findings, may be indicative of the presence of"* RECs, CRECs, HRECs, or de minimis conditions. Based on the information

Geosyntec obtained, Geosyntec has concluded that the following findings do not meet the definition of a REC, CREC, HREC, or de minimis condition and are therefore additional findings:

- **Potential Septic System and Heating Oil Tanks:** The current owner of the Subject Property said they removed a concrete foundation from the west side of the Subject Property in 2015 or 2016. The historical topographic maps show a possible structure on the western side of the Subject Property between 1950 and 1985, although no structures are visible in the historical aerial photographs. It is possible there was a septic system and heating oil tank associated with this structure, but it is unknown if they did exist in relation to the historical structure.

- **Vicinity Airport Land Use:** William R Fairchild International Airport is located approximately 0.25 miles northeast, and hydrologically down and cross-gradient from the Subject Property. ERIS identified this property as a PFAS Industry Site, there are no indications of a historical or active release. Additionally, while Ecology lists the Airport as awaiting clean up, the property is not listed on federal database associated military sites. Due to the hydrologic position (hydrologically down and cross-gradient) and nature of the information about the airport, this is considered an additional finding.

7.2 Data Gaps

In accordance with ASTM E1527-21, this section documents data gaps in the information obtained and reviewed as part of this Phase I ESA and discusses the associated significance. A data gap is defined as being "*a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information*". A significant data gap is defined as "*a data gap that affects the ability of the environmental professional to identify*" a REC.

Identified data gaps are presented below:

- In accordance with the Client agreed-to scope of work associated with this Phase I ESA, Geosyntec did not interview local agency personnel. Due to time limitations on preparing the Phase I ESA, review of agency files pertaining to the Subject Property and surrounding properties was limited to online resources only.

Collectively, in Geosyntec's opinion, none are considered to be significant with respect to identification of additional RECs for the Subject Property. These data gaps have been incorporated into our findings.

7.3 Conclusions

We have performed a Phase I Environmental Subject Property Assessment in conformance with the scope and limitations of ASTM Practice E1527 of West Edgewood Drive and South Critchfield

Road, Port Angeles, Washington 98363 the property. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report.

This assessment has revealed no RECs, CRECs, HREC(s), and/or significant data gaps in connection with the subject property. However, one de minimis condition and two additional findings have been identified, as described under Section 7.1, above.

8. NON-SCOPE CONSIDERATIONS

8.1 Asbestos-Containing Materials (ACM)

Because no buildings are presently on the Subject Property, ACM in buildings was not identified at the Subject Property during preparation of this Phase I ESA.

8.2 Lead-Based Paint (LBP)

Because no buildings are presently on the Subject Property, LBP in buildings was not identified at the Subject Property during preparation of this Phase I ESA.

8.3 Water and Mold

Because no buildings are present on the Subject Property, water damage/mold in buildings was not identified at the Subject Property during preparation of this Phase I ESA.

9. REFERENCES

ASTM, 2021, Standard Practice for Environmental Subject Property Assessments: Phase I Environmental Subject Property Assessment.

10. SIGNATURE BY ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental professional as defined in § 312.10 of 40 C.F.R. Part 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. Part 312.

The below-signed professional's qualifications are included in Appendix F.

Signed by Erin Dunbar - Geosyntec Consultants

TABLES

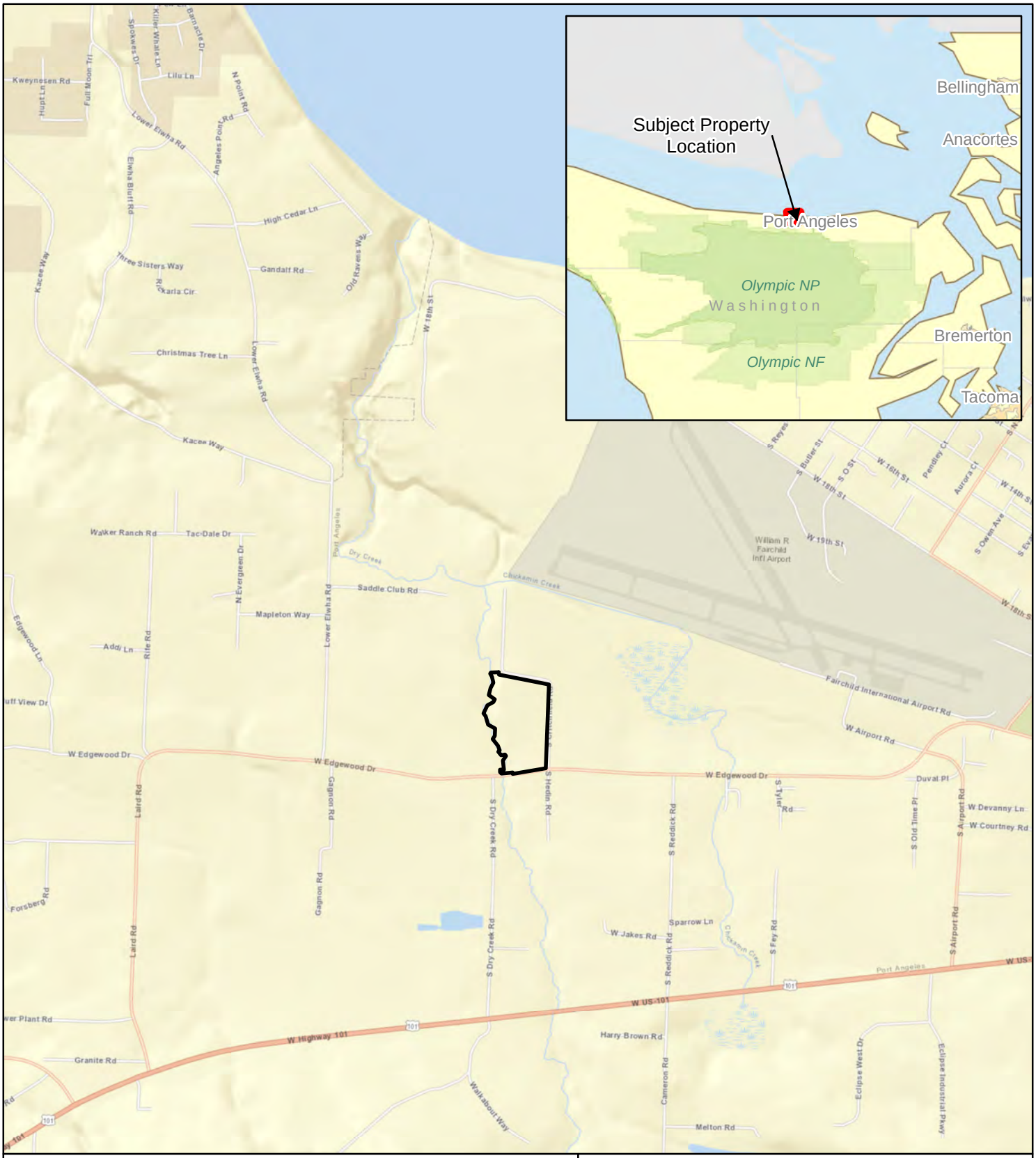
Table 1
Historical Records Review – Geosyntec Observations
West Edgewood Drive and South Critchfield Road
Port Angeles, Washington 98363

Aerial Photographs [1]	Topographic Maps [2]	City Directories
Site: 1939 - 1944: The Subject Property appears to be vacant and/or agricultural land. A vegetated area is located along the western Subject Property boundary. The roads to the north, east, and south that border the Subject Property are present. 1956 -2005: Similar to 1944. The vegetated area along the western boundary appears to be denser. 2006: A vegetated area is located along the western Subject Property boundary. Areas along the vegetated area and southern, eastern and northern boundaries appeared to have been cleared. Two small structures are located on the southern portion of the Subject Property. 2009 - 2015: The Subject Property appears to be vacant and/or agricultural land. A vegetated area is located along the western Subject Property boundary. 2017 - 2024: A vegetated area is located along the western Subject Property boundary. Stormwater ponds were located on the northern and western portions of the Subject Property. A portion of the Subject Property appears to have been cleared. Small structures were located on the Subject Property. **Vicinity:** 1939 - 1976: The Subject Property vicinity appears to be mostly agricultural and vegetated land, residences and agricultural structures. A road is located adjoined to the Subject Property to the north, east and south. 1981: Similar to 1976. A runway is located approximately 0.30 miles to the north. The nearby airport has expanded south and is now visible in the vicinity. 1994 - 2009: Similar to 1990. By 1994 the adjoined property to the east and by 2004 the adjoined properties to the south, appear to have been developed with commercial buildings. 2011: Similar to 2009. A racetrack, a pond and structures are located approximately 492 feet to the west. 2013 - 2021: Similar to 2011. Paved parking areas are located around the racetrack. 2023: Similar to 2021. What appear to be cars and trailers were located on the adjoined property to the west.	**Site:** 1919: Roads north, east, and south of the Subject Property are present. West of the Subject Property is Dry Creek. 1950-1985: One structure is shown on the Subject Property along the western boundary near the creek. 2017: Topographic map no longer shows any structures. **Vicinity:** 1919: A railroad line is shown southwest of the Subject Property, labeled as Logging RR. Dry Creek School is present to the west. A marsh is depicted northeast of the Subject Property. 1950: Dry Creek school is still depicted west of the Subject Property. General development within the vicinity has taken place. Clallam County Airport is now present northeast of the Subject Property. Highway 101 is now depicted south of the Subject Property. A new railroad line is present north of the Subject Property. 1959-1985: General development continues in the vicinity, including changes to the nearby airport. 2017: Topographic map no longer shows any structures.	**Site:** Not identified. **Vicinity:** 1936 – 1988: No listings. 1991: No listings for S Critchfield Road. Listings for W Edgewood Drive were residential (single names). 1995: Listings for W Edgewood Drive and S Critchfield Road were residential (single names). 2000: US Air Force Civil Air Patrol is listed at S Critchfield Road. All Northwest Metal Roofing and Dry Creek Grange are listed at W Edgewood Drive. 2003: US Air Force Civil Air Patrol and Vision Builder are listed at S Critchfield Road. All Northwest Metal Roofing, Dry Creek Grange and Calvary Christian Fellowship are listed as located on W Edgewood Drive. 2008: Commercial listings on S Critchfield Road included Lacey Looks, and Vision Builders/Developers. Listings for W Edgewood Drive were residential (single names) and commercial, including, All Northwest Metal Roofing, Angeles Trucking INC, One Time Welding, and Dry Creek Grange. 2012: Vision Builders/Developers is listed at S Critchfield Road. Listings for W Edgewood Drive were residential (single names) and commercial, including, Awesome Costumes, Angeles Trucking INC, and Sparkle Queen Cleaning SVC.2016 - 2023: Listings for S Critchfield Road were residential (single names). Listings for W Edgewood Drive were residential (single names) and commercial, including, Awesome Costumes, Angeles Trucking INC, and Sparkle Queen Cleaning SVC.

Notes:

1. Additional aerial photography review was completed using Google Earth when available.
2. United States Geological Survey (USGS) TopoView (https://ngmdb.usgs.gov/topoview/) was used for supplemental review of topographic maps beyond the map extents shown in the ERIS report.
3. According to ERIS, fire insurance maps (e.g. Sanborn maps) are not available for this locale.

FIGURES



Legend

Subject Property Location

N

0 500 1,000 2,000 Feet

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Subject Property Location Map

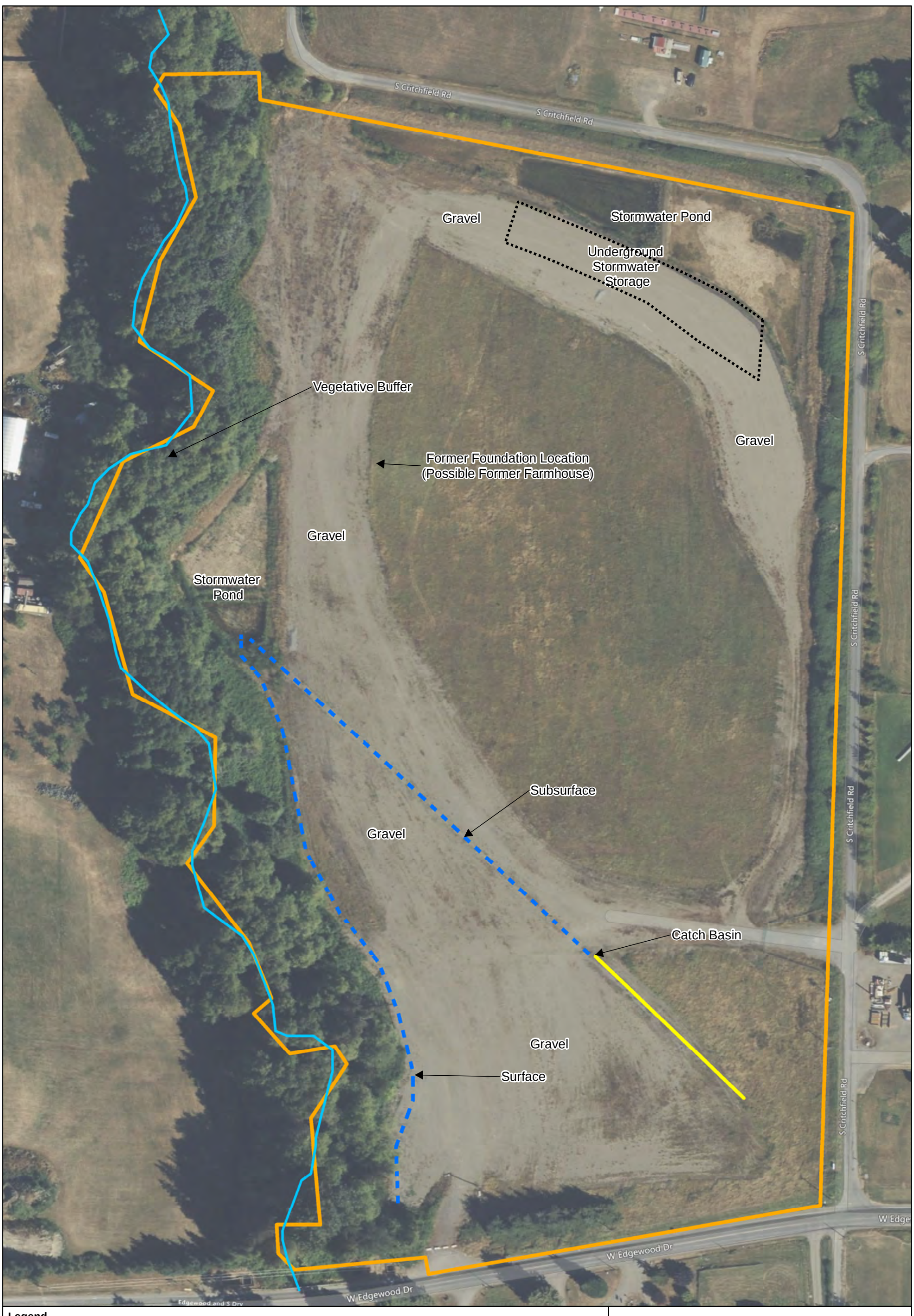
South Critchfield Road
Port Angeles, Washington

Geosyntec consultants

PNR0651RW1-1111A | December 2024

Figure 1

P:\CAD_GIS\Projects\Hazel\920 GIS\PNR0651RW1-1111A_Port Angeles\MXDs\Figure 1 Site Location Map.mxd 12/17/2024 6:45:41 AM



Legend

- Approximate Subject Property Boundary
- Dry Creek
- Swale
- Stormwater Drainage

Notes:
All locations are approximate.
© 2024 Microsoft Corporation © 2024 Maxar
©CNES (2024) Distribution Airbus DS © 2024 TomTom

N

0 25 50 100 Feet

Subject Property Layout Map

South Critchfield Road
Port Angeles, Washington

Geosyntec consultants

PNR0651RW1-1111A | December 2024

Figure 2

P:\CAD_GIS\Projects\Hazel\920 GIS\PNR0651RW1-1111A_Port Angeles\MXDs\Figure 2 Site Layout Map.mxd 12/24/2024 4:16:39 AM

Legend

- Approximate Subject Property Boundary
- Dry Creek

Notes:
All locations are approximate.
© 2024 Microsoft Corporation © 2024 Maxar ©CNES (2024) Distribution Airbus DS © 2024 TomTom

N

0 50 100 200 Feet

Subject Property Vicinity Map

South Critchfield Road
Port Angeles, Washington

Geosyntec consultants

PNR0651RW1-1111A	December 2024	**Figure 3**

P:\CAD_GIS\Projects\Hazel\920 GIS\PNR0651RW1-1111A_Port Angeles\MXDs\Figure 3 Site Vicinity Map.mxd 12/24/2024 4:21:04 AM

APPENDIX A

Subject Property Photographs

GEOSYNTEC CONSULTANTS
Photographic Record

	Project Number: PNR0651RW1/1111A
	Site Location: Port Angeles, Washington

Photograph 1

Date: 18 December 2024

Direction: East

Comments: View of neighboring private residence of owner/operator of Mitch Gray Inc. East of the Subject Property.

Photograph 2

Date: 18 December 2024

Direction: Southeast

Comments: View of neighboring private residence of owner/operator of Mitch Gray Inc. East of the Subject Property.

GEOSYNTEC CONSULTANTS Photographic Record	
	Project Number: PNR0651RW1/1111A
	Site Location: Port Angeles, Washington

Photograph 3 **Date:** 18 December 2024 **Direction:** Southeast **Comments:** View of neighboring private residence of owner/operator of Mitch Gray Inc. East of the Subject Property.	
Photograph 4 **Date:** 18 December 2024 **Direction:** Northwest **Comments:** View of Olympic RC Modelers Sports Club airfield. North of the Subject Property.	

GEOSYNTEC CONSULTANTS Photographic Record	
	Project Number: PNR0651RW1/1111A
	Site Location: Port Angeles, Washington

Photograph 5 **Date:** 18 December 2024 **Direction:** Northeast **Comments:** View of Olympic RC Modelers Sports Club airfield. North of the Subject Property.	

Photograph 6 **Date:** 18 December 2024 **Direction:** Southeast **Comments:** View of private residential properties South of the Subject Property.	

GEOSYNTEC CONSULTANTS Photographic Record	
	Project Number: PNR0651RW1/1111A
	Site Location: Port Angeles, Washington

Photograph 7 **Date:** 18 December 2024 **Direction:** South **Comments:** View of private residential properties South of the Subject Property.	
Photograph 8 **Date:** 18 December 2024 **Direction:** Northwest **Comments:** View of vegetated buffer zone surrounding Dry Creek on western border of Subject Property.	

GEOSYNTEC CONSULTANTS Photographic Record	
	Project Number: PNR0651RW1/1111A
	Site Location: Port Angeles, Washington

Photograph 9 **Date:** 18 December 2024 **Direction:** West **Comments:** View of vegetated buffer zone surrounding Dry Creek on western border of Subject Property.	
Photograph 10 **Date:** 18 December 2024 **Direction:** North **Comments:** View of Subject Property from southern portion of the Subject Property.	

GEOSYNTEC CONSULTANTS Photographic Record	
	Project Number: PNR0651RW1/1111A
	Site Location: Port Angeles, Washington

Photograph 11 **Date:** 18 December 2024 **Direction:** N/A **Comments:** Catch-basin, swale drains into catch-basin which feeds a drainage pipe that leads to the western stormwater pond.	
Photograph 12 **Date:** 18 December 2024 **Direction:** Northwest **Comments:** View of the western stormwater pond on the Subject Property.	

GEOSYNTEC CONSULTANTS Photographic Record	
	Project Number: PNR0651RW1/1111A
	Site Location: Port Angeles, Washington

Photograph 13 **Date:** 18 December 2024 **Direction:** West **Comments:** View of the western stormwater pond on the Subject Property.	
Photograph 14 **Date:** 18 December 2024 **Direction:** East **Comments:** View of the approximate location of a potential old farmhouse foundation (as indicated by site contact). Was located around where the small, bare-limbed trees currently stand.	

GEOSYNTEC CONSULTANTS Photographic Record	
	Project Number: PNR0651RW1/1111A
	Site Location: Port Angeles, Washington

Photograph 15 **Date:** 18 December 2024 **Direction:** West **Comments:** View of the ground above the underground stormwater storage system on the Subject Property.	
Photograph 16 **Date:** 18 December 2024 **Direction:** Northeast **Comments:** View of the northern stormwater pond on the Subject Property.	

GEOSYNTEC CONSULTANTS Photographic Record	
	Project Number: PNR0651RW1/1111A
	Site Location: Port Angeles, Washington

Photograph 17 **Date:** 18 December 2024 **Direction:** East **Comments:** View of catch-basin that drains into the northern stormwater pond on the Subject Property.	

Photograph 18 **Date:** 18 December 2024 **Direction:** Southwest **Comments:** View of the overflow/discharge culvert in the northern stormwater pond. Culvert runs offsite on the northeast corner of the property into county stormwater drainage system.	

APPENDIX B

User-Provided Information

Creek but not seeing a wetlands issue
Option 1 BTS 25.55 acres
Extreme Sports Park
Lot 12
William R Fairchild International Airport
Housing but can solve with entrance for trailers to the South
rport Garden Center
Park but not seeing an issue
Will need to evaluate the power lines and seeing if we need to adjust for us
LOWER ELWHA FOOD AND FUEL
Harbinger Winery
101
101

APPENDIX C

Historical Records and Data

Clallam County Assessor & Treasurer

84329 DELHUR INDUSTRIES INC for Year 2024 - 2025

Property

Account

Property ID:	84329	Legal Description:	PARCEL B BLA SUR V78 P81
Geographic ID:	0730121200750000	Agent Code:	
Type:	Real		
Tax Area:	0010 - PA 121 PORT ST CNTY H2 L WMP	Land Use Code	91
Open Space:	N	DFL	N
Historic Property:	N	Remodel Property:	N
Multi-Family Redevelopment:	N		
Township:		Section:	
Range:			

Location

Address:	S CRITCHFIELD RD PORT ANGELES, WA 98363	Mapsco:	
Neighborhood:	PA Industrial	Map ID:	C42
Neighborhood CD:	5106000		

Owner

Name:	DELHUR INDUSTRIES INC	Owner ID:	21145
Mailing Address:	PO BOX 5270 W RICHLAND, WA 99353	% Ownership:	100.0000000000%
		Exemptions:	

Pay Tax Due

There is currently No Amount Due on this property.

Taxes and Assessment Details

Property Tax Information as of 12/16/2024

Amount Due if Paid on: NOTE: If you plan to submit payment on a future date, make sure you enter the date and click RECALCULATE to obtain the correct total amount due.

Click on "Statement Details" to expand or collapse a tax statement.

Year	Statement ID	First Half Base Amt.	Second Half Base Amt.	Penalty	Interest	Base Paid	Amount Due
▸ Statement Details							

2024	54872	$6989.62	$6989.55	$0.00	$0.00	$13979.17	$0.00
▸ Statement Details							
2023	55100	$3883.31	$3883.23	$0.00	$0.00	$7766.54	$0.00
▸ Statement Details							
2022	55325	$4133.76	$4133.65	$0.00	$0.00	$8267.41	$0.00
▸ Statement Details							
2021	55621	$3233.71	$3233.64	$0.00	$0.00	$6467.35	$0.00
▸ Statement Details							
2020	55995	$2914.55	$2914.48	$0.00	$0.00	$5829.03	$0.00
▸ Statement Details							
2019	56455	$2410.62	$2410.56	$0.00	$0.00	$4821.18	$0.00

Values

(+) Improvement Homesite Value:	+	$0	
(+) Improvement Non-Homesite Value:	+	$0	
(+) Land Homesite Value:	+	$0	
(+) Land Non-Homesite Value:	+	$384,300	
(+) Curr Use (HS):	+	$0	$0
(+) Curr Use (NHS):	+	$0	$0

(=) Market Value:	=	$384,300	
(–) Productivity Loss:	–	$0	

(=) Subtotal:	=	$384,300	
(+) Senior Appraised Value:	+	$0	
(+) Non-Senior Appraised Value:	+	$384,300	

(=) Total Appraised Value:	=	$384,300	
(–) Senior Exemption Loss:	–	$0	
(–) Exemption Loss:	–	$0	

(=) Taxable Value:	=	$384,300	

Taxing Jurisdiction

Owner:	DELHUR INDUSTRIES INC
% Ownership:	100.0000000000%
Total Value:	$384,300

Tax Area: 0010 - PA 121 PORT ST CNTY H2 L WMP

Levy Code	Description	Levy Rate	Appraised Value	Taxable Value	Estimated Tax
ST SCH2	STATE SCHOOL PT 2	0.8091306662	$384,300	$384,300	$310.95
STATE SCH	STATE SCHOOL PT 1	1.5082776643	$384,300	$384,300	$579.63
CC GENERAL	CLALLAM COUNTY GENERAL	0.7396379723	$384,300	$384,300	$284.24
DEVDISIBLT	DEVELOPMENT DISABILITIES COUNTY	0.0205451200	$384,300	$384,300	$7.90
LND ASSMT	LAND ASSESSMENT COUNTY	0.0015400000	$384,300	$384,300	$0.59
TAX REFUND	TAX REFUND FUND COUNTY	0.0000000000	$384,300	$384,300	$0.00
VET RELIEF	VETERAN'S RELIEF COUNTY	0.0092452999	$384,300	$384,300	$3.55
CAPT IMP	CAPITAL IMPROVEMENT PORT DISTRICT	0.1105115198	$384,300	$384,300	$42.47
LIB	LIBRARY COUNTY	0.2936226339	$384,300	$384,300	$112.84
LIB BD	PORT ANGELES CITY LIBRARY BOND	0.0000000000	$384,300	$384,300	$0.00
PRT ANG	PORT ANGELES CITY GENERAL	1.6288833371	$384,300	$384,300	$625.98
REFUND BD	PORT ANGELES CITY REFUNDING BOND	0.0000000000	$384,300	$384,300	$0.00
SD 121 BD	SD 121 BOND	0.0000000000	$384,300	$384,300	$0.00
SD 121 CP	SD 121 CAPITAL PROJECTS	1.8446600841	$384,300	$384,300	$708.90
SD 121 GEN	SD 121 ENRICHMENT	0.9661991873	$384,300	$384,300	$371.31
HOSP 2 GEN	HOSPITAL DIST #2 GENERAL	0.3177019449	$384,300	$384,300	$122.09
WSMETPARK	WILLIAM SHORE MEMORIAL POOL MET PK DIST	0.3221312085	$384,300	$384,300	$123.80
CON FUTURE	CONSERVATION FUTURES	0.0178280580	$384,300	$384,300	$6.85
	Total Tax Rate:	8.5899146963			
				Taxes w/Current Exemptions:	$3,301.10
				Taxes w/o Exemptions:	$3,301.10

Improvement / Building

Sketch

No sketches available for this property.

Property Image

Land

#	Type	Description	Acres	Sqft	Eff Front	Eff Depth	Market Value	Prod. Value
1	9100	9100	25.6200	1116007.20	0.00	0.00	$384,300	$0

Roll Value History

Year	Improvements	Land Market	Current Use	Total Appraised	Taxable Value
2025	N/A	N/A	N/A	N/A	N/A
2024	$0	$384,300	$0	$384,300	$384,300
2023	$0	$295,000	$0	$295,000	$295,000
2022	$0	$295,000	$0	$295,000	$295,000
2021	$0	$295,000	$0	$295,000	$295,000
2020	$0	$295,000	$0	$295,000	$295,000
2019	$0	$295,000	$0	$295,000	$295,000
2018	$0	$295,000	$0	$295,000	$295,000
2017	$0	$295,000	$0	$295,000	$295,000
2016	$0	$275,000	$0	$275,000	$275,000

Deed and Sales History

#	Deed Date	Type	Description	Grantor	Grantee	Volume	Page	Sale Price	Excise Number	Deed Number
1	06/10/2016	WARRANTY D	WARRANTY DEED	DELHUR FINANCIAL LLC					0	2016-1335525
2		QUIT CLAIM	QUIT CLAIM DEED	DANIEL L MORRISON ETAL	A2Z ENTERPRISES LLC	0		$0.00	200885906	20091231084
3		WARRANTY D	WARRANTY DEED	PORT OF PORT ANGELES	DANIEL/KELIE MORRISON ETAL	0		$1,050,000.00	200884958	20081225974
4		WARRANTY D	WARRANTY DEED	PORT OF PORT ANGELES	CLALLAM COUNTY RD DEPT	0		$406.00	200048321	20001049284
5		QUIT CLAIM	QUIT CLAIM DEED	FORT JAMES OPERATING CO	DAISHOWA AMERICA CO LTD	0		$0.00	200046823	20001043610
6		WARRANTY D	WARRANTY DEED	DEL HUR INC	PORT OF PORT ANGELES	0		$375,000.00	199840428	1014425

Payout Agreement

No payout information available..

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APPENDIX D

Prior Reports

APPENDIX D-1

Subject Property Documents

WSDOT MATERIALS LAB 12/18/2024

Aggregate Source Approval Report

Owner: Delhur Industries, Inc.
Aggregate Source: PS-Q-235
Lessee:
Known as: Place Rd. Pit
Located in: NE 1/4 SE 1/4 Section 4 T30N R7W
County: Clallam
Address: 1 Princess Lane, Port Angeles, WA 98363

Remarks:
48.121351932,- 123.572228108

Mineral Agg. and Surfacing: Test Date: 07/28/2021 Expiration Date: 07/28/2026

Absorption: 1.08
Apparent Sp. G.: 2.751
Bulk Sp. G. (SSD): 2.7
Bulk Sp. G.: 2.671
Deg: 31
LA: 16

Remarks:

Currently Approved for:

ATB	Ballast	BST Crushed Cover Stone
BST Crushed Screenings	Crushed Surfacing Base Course	Crushed Surfacing Key Stone
Crushed Surfacing Top Course	Gravel Backfill for Foundation Class A	HMA Other Courses
HMA Wearing Course	Maintenance Rock	Permeable Ballast

Acceptance tests need to be performed as necessary.

Aggregates for Concrete: Test Date: 04/30/2020 Expiration Date: 04/30/2025

ASR - 14 Day : 0.49
ASR - One Year: 0.024
CCA Absorption: 1.06
CCA Sp.G: 2.715
Deg: 61
FCA Absorption: 1.09
FCA Organics: 1
FCA Sp. G: 2.693
LA: 14

Remarks: 1yr ASR results expire 7/28/2027

Currently Approved for:

Coarse Concrete Aggregates (Other as defined in 6-02.3(2))

Fine Concrete Aggregates

Coarse Concrete Agg (Structural and Paving Concrete)

Acceptance tests need to be performed as necessary Acceptance tests need to be performed as necessary

---

Riprap, Quarry Spalls, Rock for Rock Wall, Erosion and Scour Protection: Test Date: Expiration Date:

Absorption: Apparent Sp. G.: Bulk Sp. G. (SSD): Bulk Sp. G.:

Deg: LA:

Remarks:

NOT Approved for:

Quarry Spalls Riprap Rock for Erosion and Scour Protection

Rock for Rock Walls Stone 9-27.3(6)

Streambed Aggregates: Test Date: 04/30/2020 Expiration Date: 04/30/2025

Absorption: 1.06 Apparent Sp. G.: 2.765 Bulk Sp. G. (SSD): 2.715 Bulk Sp. G.: 2.687

Deg: 61 LA: 14

Remarks:

Currently Approved for:

Streambed Aggregate

Gravel Borrow for Structural Earth Walls: Test Date: 04/30/2020 Expiration Date: 04/30/2025

Bulk Sp. G. (SSD): 2.715 Deg: 61 LA: 14

Remarks: For geosynthetic reinforcement, the gravel borrow shall be tested for pH prior to placement. For metallic reinforcement, the gravel borrow shall be tested for pH, resistivity, chlorides, and sulfates prior to placement. If the resistivity of the backfill material equals or exceeds 5,000 ohm-cm, the specified chloride and sulfate limits may be waived. If the aggregate source has variable quality, additional testing may be required. Contact the Regional Materials Engineer or the State Geotechnical Engineer for direction.

Currently Approved for:

Gravel Borrow for Str Earth Walls

ALL OTHER PIT RUN MATERIALS:

Project Engineer may request preliminary samples but Aggregate Source Approval is not required.

AGGREGATE MATERIALS NOT REQUIRING ASA APPROVAL :

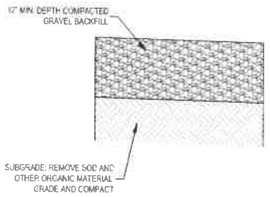
Aggregate for Gravel Base 9-03.10
Gravel Backfill for Foundation Class B 9-03.12(1)B
Gravel Backfill for Walls 9-03.12(2)
Gravel Backfill for Pipe Zone Bedding 9-03.12(3)
Gravel Backfill for Drains 9-03.12(4)
Gravel Backfill for Drywells 9-03.12(5)
Backfill for Sand Drains 9-03.13
Sand Drainage Blanket 9-03.13(1)
Gravel Borrow 9-03.14(1)
Select Borrow 9-03.14(2)
Common Borrow 9-03.14(3)
Native Material for Trench Backfill 9-03.15
Foundation Material Class A and B 9-03.17
Foundation Material Class C 9-03.18
Bank Run Gravel for Trench Backfill 9-03.19
Commercial Concrete Aggregate 6-02.3(2)B

LEGEND: (UNLESS OTHERWISE NOTED)

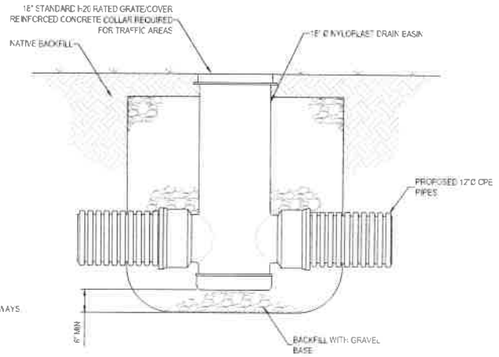
- PROPERTY BOUNDARY
- SETBACK
- EXISTING DITCH LINE
- EDGE OF GRAVEL
- SILT FENCE
- EXISTING 2' MINOR CONTOURS
- EXISTING 10' MAJOR CONTOURS
- PROPOSED 5' CONTOURS
- EDGE OF ASPHALT
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- STRAW WATTLES
- EXISTING TY 1 CATCH BASIN
- PROPOSED TY 2 CATCH BASIN
- EXISTING GRAVEL
- PROPOSED GRAVEL
- EXISTING FORESTED AREA

DRAINAGE NOTES:

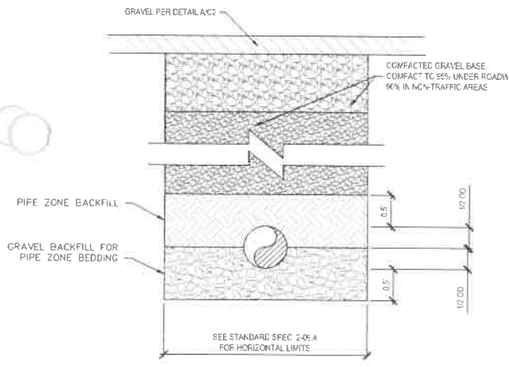
1. ALL CONSTRUCTION SHALL CONFORM WITH THESE PLANS AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION
2. CONTRACTOR SHALL NOTIFY UTILITY LOCATOR SERVICE AND ARRANGE FOR FIELD LOCATION AND MARKING OF ALL UNDERGROUND UTILITIES IN AFFECTED AREAS PRIOR TO CONSTRUCTION
3. FINAL ELEVATIONS, GRADES AND ACTUAL PIPE LOCATIONS ARE TO BE DETERMINED BY OTHERS SUCH THAT THE FINAL ELEVATIONS AND DRAINAGE PATTERNS CONFORM WITH THE PLAN AND DETAILS HEREON. ANY CHANGES MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION
4. EXISTING DETENTION/WETPOND TO BE REVISED TO MEET STORMWATER TREATMENT WETLAND REQUIREMENTS INCLUDING REGRADING AND REPLANTING. SEE NOTES BELOW PLANTING REQUIREMENTS AND SHEET C2 FOR ADDITIONAL DETAILS AND SECTIONS
5. REVISED WETPOOLS TO BE VEGETATED WITH THE FOLLOWINGS PLANT SPECIES
   - SCIRPUS ACUTUS (HARDSTEM BULRUSH; 2 - 6' DEPTH
   - SCIRPUS MICROCARPUS (SMALL-FRUITED BULRUSH; 1 - 2.5' DEPTH
   - SPARGANIUM EMERSUM (BURREED; 1 - 2' DEPTH
   - SPARGANIUM EURYCARPUM (BURREED; 1 - 2' DEPTH
   - VERONICA SP. (MARSH SPEEDWELL); 0 - 1' DEPTH



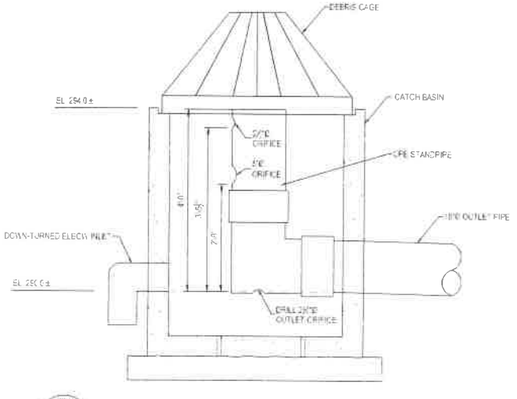
A / C2 TYPICAL GRAVEL SECTION
Scale: NTS



C / C2 NYLOPLAST DRAIN BASIN
Scale: N.T.S.

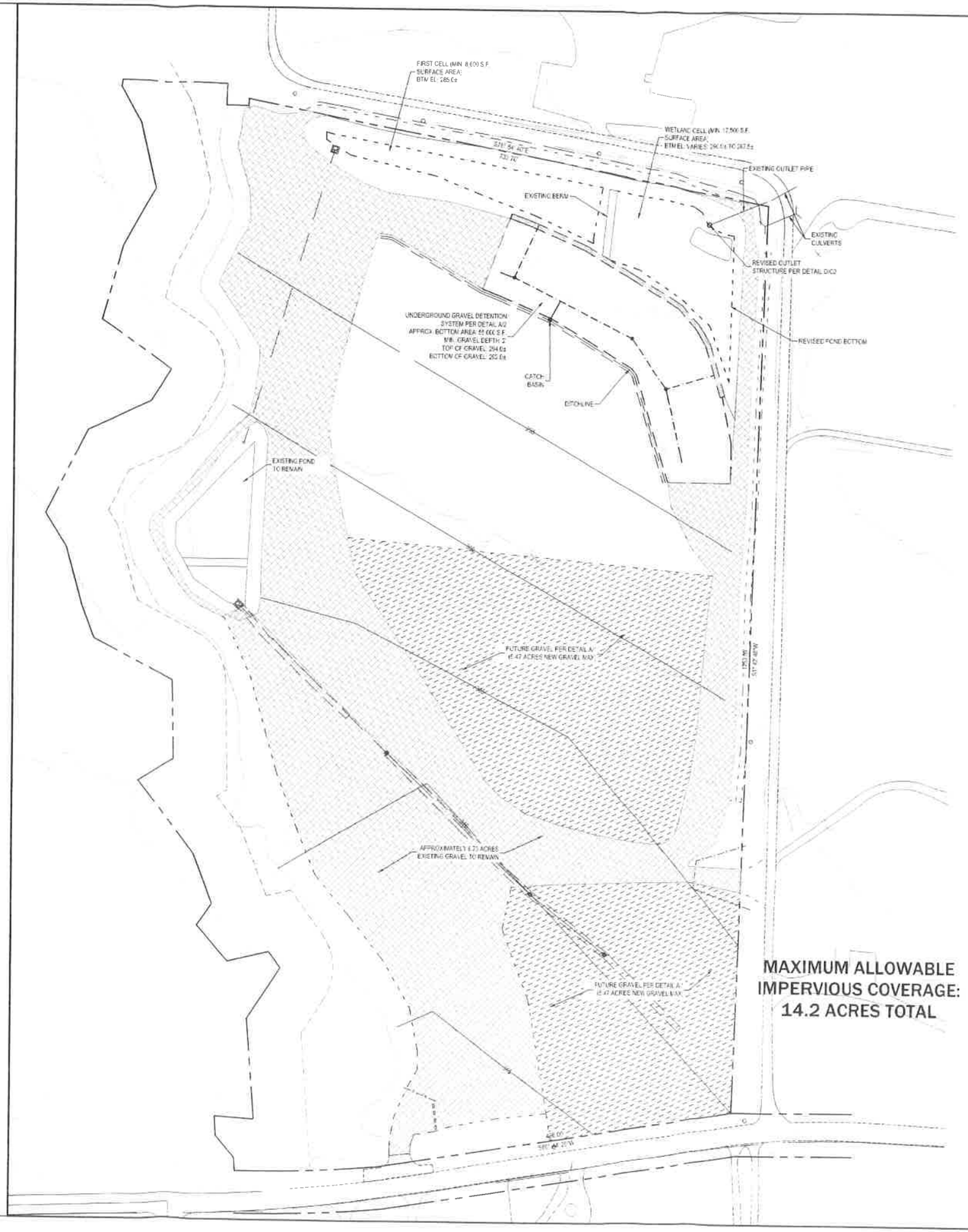


B / C2 TYPICAL TRENCHING DETAL
Scale: NTS



D / C2 OUTLET STRUCTURE REVISION
Scale: N.T.S.

SITE PLAN
Scale: 1" = 80'



ZENOVIC & ASSOCIATES
INCORPORATED
301 E. 4TH STREET, SUITE 1
PORT ANGELES, WA 98362
PHONE: (360) 417-0501
FAX: (360) 417-0514
EMAIL: 7ENOVIC@ZENOVIC.NET

REVISIONS:

DATE	MARK	NOTE

TITLE: STORM DRAINAGE PLAN FOR ORTCHFIELD PROPERTY DEVELOPMENT, CITY OF PORT ANGELES WA - PARCEL NO. 07-30-12-120/5

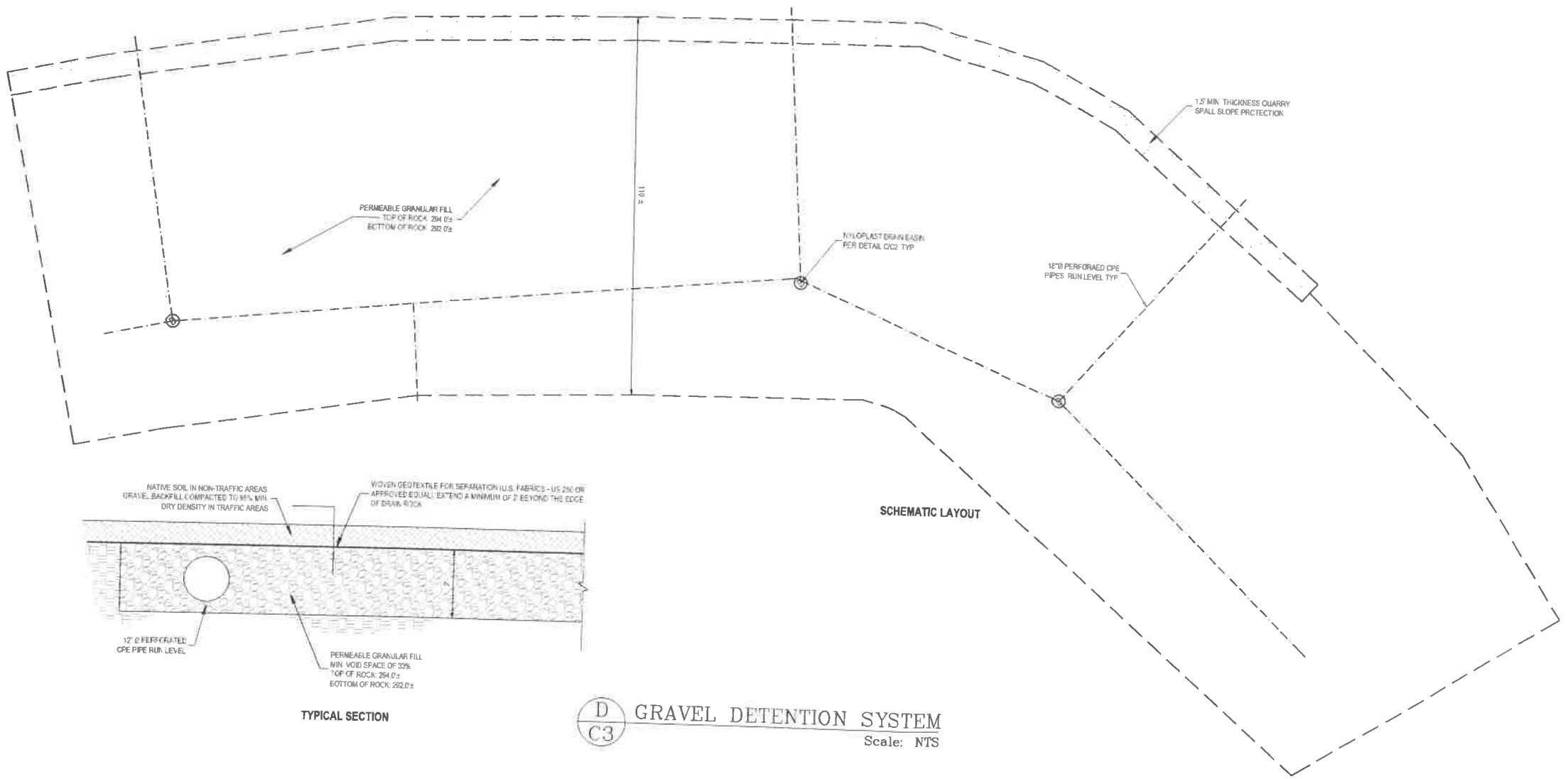
AS-BUILT

CLIENT: DELHUR INDUSTRIES, INC.
P.O. BOX 1116
Port Angeles, WA 98362

SCALE: 1" = 80'
FILE: 19041-AB
JOB NO: 19041
DATE: February 28, 2020
SET: AS-BUILT

12/20/2023

SHEET 1



SCHEMATIC LAYOUT

TYPICAL SECTION

D / C3 GRAVEL DETENTION SYSTEM
Scale: NTS

ZENOVIC & ASSOCIATES
INCORPORATED
301 E. 6TH STREET, SUITE 1
PORT ANGELES, WA 98362
PHONE: (360) 417-0501
FAX: (360) 417-0514
EMAIL: ZENOVIC@ZENOVIC.NET

REVISIONS:

DATE	MARK	NOTE

TITLE: STORM DRAINAGE PLAN FOR CAR CONFIELD PROPERTY DEVELOPMENT, CITY OF PORT ANGELES WA. - PARCEL NO. 07-30-12-0-0015

STORMWATER DETAILS

CLIENT: DELHUR INDUSTRIES, INC.
P.O. BOX 1116
Port Angeles, WA 98362

SCALE: NTS
FILE: 19041-AB
JOB NO: 19041
DATE: December 20, 2023
SET: AS-BUILT

12/20/2023

SHEET
2

View Case Status

The information below summarizes the case you selected.

Road Permit: RDP2017-00149 **Status: Finaled**

Subtype: Road Approach Permit

Name: DELHUR INDUSTRIES INC
Application Date: 8/3/2017
Issue Date: 8/11/2017

Finaled Date: 9/29/2017

Site Address: W EDGEWOOD DR

Description: 9/21/2017 ROUTED TO RAY FOR FINAL INSPECTION###8/3/2017 ROUTED TO RAY FOR REVIEW

Parcel(s) related to this case: *(Click the Parcel Number for more information)*

073012120075 *(Principle Parcel: Active)* **Zoom to Parcel on Multi-Purpose Map**

Documents related to this case:

FINAL PERMIT (RDP2017-00149)

PERMIT CONDITIONS (RDP2017-00149)

Case Process Steps (Review, Decisions, Inspections, etc.)

Application Entered	*Done*	... ... Date Entered: 8/3/2017
Engineer Review	*DONE*	... ... Date: 8/11/2017
Approve Permit	*DONE*	... ... Date: 8/11/2017
Final Sign-Off (F)	*DONE*	... ... Date: 9/29/2017
Final Inspection	*DONE*	Required: 8/3/2017... ... Done: 9/25/2019

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Use this page to view the details of the selected case.

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- To pay fees for this case, click **Pay Fees**.
- If your jurisdiction allows you to view parcel information as a map, click **View GIS**.

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Disclaimer

Parcel Information

For Parcel No: **07-30-12-12-0075**

Zoom to Parcel on Multi-Purpose Map | MP Intranet

Status: **Active**

Boundaries Map | Water Rule Map | WR Intranet

Site Address(es): W EDGEWOOD DR (unofficial)

Owner(s): **DELHUR INDUSTRIES INC**

Acres (GIS) : **25.55 Acres**

In City of Port Angeles

Zoning: **P_IH on approximately 92% of parcel, remainder zoned P_PBP**

Mapping Doc
Auditor File No.

Parcel Created: **9/7/2016**

Parcel is NOT in Dungeness Water Rule Area

Link(s) to Assessor Records: *(Click Property ID for Assessor information)*

Assessor Property ID	*Assessor Geo ID*	*Abbreviated Property Description*
84329	073012120075 0000	PARCEL B BLA SUR V78 P81

Permit Cases Associated with this Parcel Record *(Click the Case Number for more information)*

Case Number	*Case Type*	*Status*	*Description*
CRI2022-00017	Critical Areas	Approved for Specific Activity	Replace existing 60 year old six inch Dry Creek water line within existing right-of-way of Edgewood Drive Road. The replacement water line would be eight inches and this proposal includes the placement of a ten inch sanitary sewer. The water and sewer lines would be installed by directionally boring and sleeved within the same area. The water line would be located 4 feet and the sanitary sewer would be 5 feet below Dry Creek, a Type 3 Stream (Aquatic Habitat Conservation Area). This proposal will require a HPA from WDFW.
RDP2017-00149	Road Permit	Finaled	9/21/2017 ROUTED TO RAY FOR FINAL INSPECTION###8/3/2017 ROUTED TO RAY FOR REVIEW

Documents Associated with this Parcel *(Click Document to Open)*

There are no documents associated directly with this parcel.

Documents Associated with Cases on this Parcel *(Click Document to Open)*

CRI2022-00017
1. **CRI 2022-17 approval of replacement water lines & sewer (DCD APPROVAL OF BORING UNDER DRY CREEK)**
2. **Documents for boring under Dry Creek for water & sewer (CRI 2022-17 DRY CREEK)**

RDP2017-00149
FINAL PERMIT (RDP2017-00149)
PERMIT CONDITIONS (RDP2017-00149)

Tags Associated with this Parcel

Click here to view FIRM Map

There are no tags associated with this parcel.

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Top of Page

- A **parcel** is a plot of land that is usually a subdivision of a larger area.
- To go back to a previous page, click the Back button on your browser.
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Public Information

Search

All

for

073012120075

Exact Phrase ☑

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Found 1 result

xt () | Top () | Paging Options () | Filter Options () | Main Menu ()

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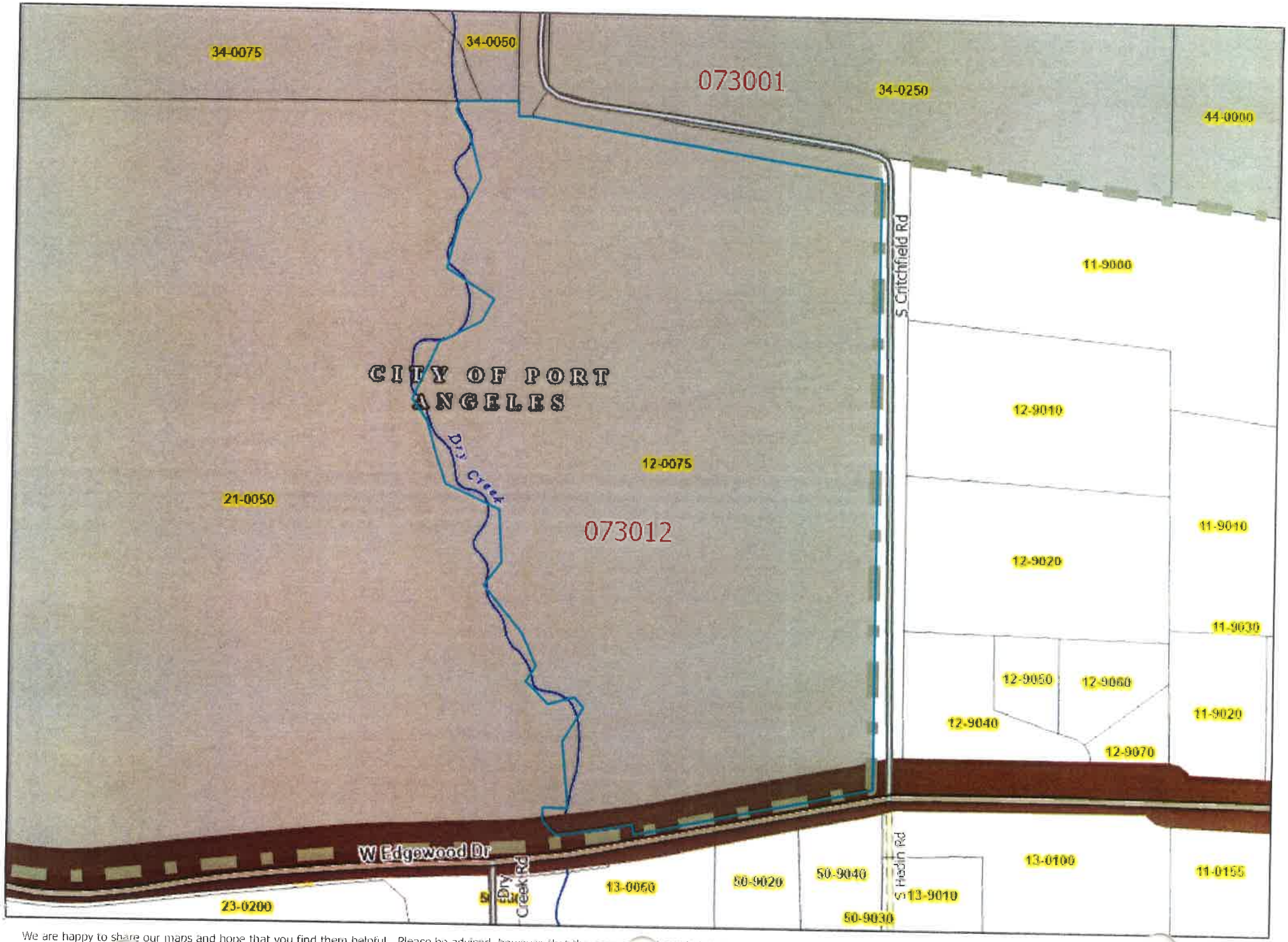
Permit Number RDP2017-00149
Applied Date 08/03/2017
Type Road Approach
Issued Date 08/11/2017
Project Name
Expiration Date 02/28/2018
Status Finaled
Finalized Date 09/29/2017
Main Parcel 073012120075
Address W EDGEWOOD DR Port Angeles WA 98363
Description 9/21/2017 ROUTED TO RAY FOR FINAL INSPECTION###8/3/2017 ROUTED TO RAY FOR REVIEW



We are happy to share our maps and hope that you find them helpful. Please be advised, however, that these maps are intended to serve as a guide to the general location of features shown. The accuracy of the data layers varies and layers may not align with one another. Determination of actual regulatory location of features shown on this map typically requires a field examination by qualified staff. Any person or entity that relies on any information contained herein does so at their own risk. Clallam County makes no warranty of the accuracy or usefulness of this data.

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2024-1463405
Page 1 of 4 Protct Covenant
Delhur Industries Inc
Clallam County Washington 09/12/2024 01:38:21 PM

When recorded, return to:

Delhur Industries Inc., PO BOX 5270, West Richland, WA, 99353.

Director, Public Works and Utilities Department, City of Port Angeles, 321 East 5th Street, Port Angeles, Washington, 98362.

COVENANT FOR MAINTENANCE, REPAIR AND OPERATION OF STORM DRAINAGE FACILITIES FOR THE Critchfield Industrial Parcel

THIS AGREEMENT made and entered into this 3rd day of September, 2024 by and between Delhur Industries Inc. whose address is PO BOX 5270, West Richland, WA, 99353, hereinafter referred to as Delhur, and the City of Port Angeles, a Washington municipal corporation whose address is 321 East 5th Street, Port Angeles, Washington, 98362, hereinafter referred to as the City.

WHEREAS, Delhur warrants and represents that it is the sole and exclusive owner of the subject premises as described in paragraph 1 below with full and exclusive authority to execute this Agreement and that all necessary steps precedent to its execution have been undertaken, making the obligation binding upon Delhur; and

WHEREAS, Delhur has constructed all storm drainage facilities for the Critchfield Industrial Parcel pursuant to a properly issued permit from the City of Port Angeles; and

WHEREAS, Delhur is required pursuant to Section 13.63.270 of the City of Port Angeles Municipal Code (Maintenance Covenant Required for Privately Maintained Drainage Facilities) to operate and maintain all storm drainage facilities, associated with this development, located outside designated City of Port Angeles' Rights of Way and Easements for the Critchfield Industrial Parcel; and

WHEREAS, the City and Delhur are mutually desirous of providing assurances for the future continued maintenance, repair and operation of storm drainage facilities for the Critchfield Industrial Parcel.

NOW, THEREFORE, in consideration of the agreements herein provided and other good and valuable consideration, the parties agree as follows:

1. Delhur warrants and represents that it has sole and exclusive authority and sole and exclusive right, title and interest in the subject property situated in the City of Port Angeles, Clallam County, Washington, legally described as:
PARCEL B BLA SUR V78 P81 073012120075

2. Delhur for themselves and their successors and assigns, hereby guarantees and agrees to operate, maintain, repair, and bear the costs thereof, all stormwater facilities which have not been conveyed to the City of Port Angeles as set forth in Section 13.63.270 of the Port Angeles Municipal Code until such time as said conveyance occurs. Such maintenance activities shall be performed as described in the Stormwater Facility Operation and Maintenance Manual for the Critchfield Industrial Parcel; and that in the event it is contacted by the City of Port Angeles Public Works and Utilities Department, it will perform any and all maintenance, repair or replacement as indicated by the Public Works and Utilities Department. Delhur shall perform all such work within the time frame set forth in the Maintenance Timeline established in the Stormwater Facility Operations and Maintenance Manual, completed to the satisfaction of the City.

3. The City shall not and it does not serve as a guarantor of the performance of Critchfield Industrial Parcel, nor does the City make any representations or warranties with regard to the design or capability of storm drainage facilities. The City may, but is not required, in its sole discretion to elect to repair, replace or maintain storm drainage facilities if, in the sole opinion of the City, Delhur has failed to do so within the time frame set forth in the Maintenance Timeline established in the Stormwater Facility Operation and Maintenance Manual. All such charges associated with such work, including administrative costs and professional fees, shall be charged to Delhur and payable forthwith. Any such charges shall be subject to being enforced and collected by all legal means.

4. The City will confirm the privately-owned stormwater infrastructure is being inspected and maintained by the owner and in compliance with minimum standards by performing annual onsite inspections and annually collecting the Inspection, Maintenance, and Repair Log. Annual inspection fees and, if necessary, re-inspection fees will apply.

5. This Agreement shall be binding upon the heirs, successors and assigns of Delhur.

6. This Agreement may only be modified in writing by a document executed by Delhur and the City.

7. This is intended to be a covenant that runs with the land and is binding on any future successors, heirs, and assigns.

IN WITNESS HEREOF, _____ sets his/her/their hand(s) and seal(s) this ___ day of _____, 20___.

DELHUR:

John M. Doyle
Authorized Representative Signature of Delhur Industries Inc.

John M. Doyle
Printed Name

V.P.
Title of Grantor

STATE OF WASHINGTON)
) ss
COUNTY OF CLALLAM)

On this 3rd day of Sept. 20 24 before me personally appeared

John M. Doyle
who executed the foregoing **AGREEMENT FOR MAINTENANCE, REPAIR AND OPERATION OF STORM DRAINAGE FACILITIES FOR THE CRITCHFIELD INDUSTRIAL PARCEL** by him/her/them signed.

Tasha Kellen Notary Public, Clallam County, Washington
My Commission Expires: 06/07/2026

TASHA KELLEN
APPOINTMENT EXPIRES June 07, 2026
NOTARY PUBLIC
COMM # 200711
STATE OF WASHINGTON

IN WITNESS HEREOF, JESSICA TOTH sets his/her/their hand(s) and seal(s) this 10 day of SEPT., 2024

CITY OF PORT ANGELES

City Authorized Representative Signature

MIKE HEALY
Printed Name

DIRECTOR PUBLIC WORKS & UTILITIES
Title of City Authorized Representative

STATE OF WASHINGTON)
) ss
COUNTY OF CLALLAM)

On this 10 day of SEPTEMBER 2024, before me personally appeared

MIKE HEALY who executed the foregoing **AGREEMENT FOR MAINTENANCE, REPAIR AND OPERATION OF STORM DRAINAGE FACILITIES FOR THE CRITCHFIELD INDUSTRIAL PARCEL** by him/her/them signed.

Notary Public, CLALLAM County, Washington.
My Commission Expires: 11/15/2027

JESSICA L TOTH
Notary Public
State of Washington
Commission # 176066
My Comm. Expires Nov 15, 2027

2024-1463406
Page 1 of 14 Notice
Delhur Industries Inc
Clallam County Washington 09/12/2024 01:38:21 PM

OPERATION AND MAINTENANCE MANUAL

FOR

Critchfield Industrial Parcel

Date: September 3rd, 2024

Project: Critchfield Industrial Parcel
Port Angeles

Prepared by: Delhur Industries, Inc.
PO BOX 5270
West Richland, WA
99353

PURPOSE

The purpose of this manual is to provide the stormwater facility operations and maintenance protocols for the stormwater facilities at the Critchfield Industrial Parcel in Port Angeles, WA. This manual provides background information for the development, identifies all stormwater facilities to be maintained, names the entity legally responsible for maintenance, grants City of Port Angeles personnel access for annual inspections, details requirements for maintaining records and provides a maintenance checklist and log.

BACKGROUND

The project is located on legal parcel B BLA SUR V78 P81 on Critchfield Road at the intersection of W Edgewood Drive and Critchfield Road in Port Angeles. The parcel encompasses 25.55 acres which have been previously cleared and is currently vegetated with a mix of low brush and grass with a few scattered trees.

STORMWATER FACILITIES

List of facilities to be maintained:

- Detention Pond w/Outlet Control Structure
- Energy dissipaters
- Type 1P Catch Basins

MAINTENANCE RESPONSIBILITY

The two parties involved in the continual operation, maintenance, and repair of stormwater facilities associated with the subject parcel are the current Owner (Delhur Industries Inc.) and the City of Port Angeles.

In General, all storm drain facilities located outside of the right of way will remain private and the Owner and their successors will be the entity legally responsible for the continual operation, maintenance, and repair of those facilities.

In General, storm drain facilities that are located in the right of way will be conveyed to the City at the conclusion of the project. The City of Port Angeles will be the entity legally responsible for the continual operation, maintenance, and repair of those facilities.

If a Conveyance of Public Facilities is not filed and accepted by the City for the noted stormwater facilities, the Owner or their successors will maintain the legal responsibility for the continual operation, maintenance, and repair of those facilities within the public right of way. Minimum standards for inspection, maintenance, and repair applicable to private infrastructure shall also apply to non-conveyed infrastructure and their respective requirements.

The Owner or their successors shall designate a qualified individual to maintain records, perform inspections and coordinate maintenance as required by this Operation and Maintenance Manual. Contact information for the designee shall be kept up to date in this manual. Space for future designees is provided in the table below.

Contact List

Contact	Phone	Email
Delhur Industries Inc.	360-457-1133	jdoyle@delhur.com

CITY INSPECTIONS

The City of Port Angeles shall be allowed access to the site for an annual inspection of all permitted stormwater facilities. The City will charge an annual inspection fee per PAMC 3.70.110. Follow up inspections may be required and additional fees may be charged.

RETENTION OF RECORDS

The person legally responsible for the facilities shall maintain all records of maintenance inspections, repairs, warning letters, and notices of violations. These records shall be made available for viewing to the City of Port Angeles within 7 days of request.

MAINTENANCE

Proper maintenance is vital for adequate functioning of the stormwater facilities. The City of Port Angeles will require a maintenance bond for all new construction per Urban Services Standards and Guidelines, Section 1A.130. The required inspection frequency is dependent on the type of facility or structure, inspection results, and State minimum standards. Specific inspection frequency intervals can be found in Appendix B. Make photocopies of the checklists as necessary keeping the attached sheets as a clean original copy. All maintenance standards for stormwater facilities shall conform to the Department of Ecology *2012 Stormwater Management Manual for Western Washington (Amended 2014).*

MAINTENANCE AND REPAIR LOG

Record any required maintenance or repair on the log sheet on page 4. Make photocopies of the log sheet as necessary keeping the attached sheet as a clean original copy.

A copy of the completed Inspection, Maintenance and Repair Log shall be submitted to the City of Port Angeles Public Works Department at time of the annual inspection by the City of Port Angeles.

MAINTENANCE TIMELINE

This covenant requires that when defects to the stormwater system are found during the annual inspection the needed repair shall be completed within the timeline defined below:

- Within 6 months for catch basins, and conveyance systems.
- Within 9 months for maintenance requiring re-vegetation.
- Within 1 year for all facilities.

This log covers Inspection, Maintenance and Repair activities
from _____ to _____
start date end date

INSPECTION, MAINTENANCE AND REPAIR LOG

Date	Item/Facility	Description	Performed by	Comments

CERTIFICATION

"I certify that this inspection and maintenance log is true, accurate, and complete, to the best of my knowledge and belief."

_____
(Name) (Title)

_____
(Signature) (Date)

*Inspection and Maintenance Log to be submitted to the City at time of annual inspection by the City.

APPENDIX A
STORMWATER MAINTENANCE PLAN & AS-BUILTS

APPENDIX B
INSPECTION FREQUENCIES & CHECKLISTS

MAINTENANCE INSPECTION FREQUENCIES

Owner: Delhur Industries Inc.
Location: Northwest of Intersection of Edgewood Drive and Critchfield Rd.
Parcel No. PARCEL B BLA SUR V78 P81

At a minimum all stormwater facilities are to be inspected twice per year for a period of two years after project completion. It is recommended that the inspections occur directly preceding (August-September) and following the wet season (May-June). The stormwater facilities are to be inspected once per year thereafter unless otherwise required below or conditions are found to warrant a more frequent inspection frequency.

DRAINAGE FEATURE	INSPECTION FREQUENCY
Detention Pond / Wetland	Maintain minimum inspection frequency as stated above. Increase inspection frequency as needed to ensure maintenance can be performed to prevent damage to the facility or maintain proper operating condition.
Control Structure/Flow Restrictor	Regularly and at least once per year. Increase inspection frequency as needed to ensure orifices are operating properly.
Catch Basins	Maintain minimum inspection frequency as stated above. Increase inspection frequency as needed to ensure maintenance can be performed to ensure proper function (i.e. joints sealed, sediment removed, grate clear, and pipes in working condition).

ANNUAL MAINTENANCE INSPECTION CHECKLIST

Owner: Delhur Industries Inc.
Location: Northwest of Intersection of Edgewood Drive and Critchfield Rd.
Parcel No. PARCEL B BLA SUR V78 P81

Inspector: _____
Date: _____

DRAINAGE FEATURE		INSPECTED	COMMENTS/MAINTENANCE TO BE PERFORMED
Detention Pond			
General	Trash & Debris	☐	
	Poisonous/Noxious Weeds	☐	
	Contamination and Pollution	☐	
	Animal/Rodent Damage	☐	
	Insects	☐	
	Tree Growth/Hazards	☐	
Side Slopes	Erosion	☐	
Storage Area	Sediment	☐	
	Liner (if applicable)	☐	
Berms	Settlement	☐	
	Piping	☐	
Overflow	Vegetation	☐	
	Piping	☐	
	Erosion	☐	
	General Condition	☐	

ANNUAL MAINTENANCE INSPECTION CHECKLIST

Owner: Delhur Industries Inc.
Location: Northwest of Intersection of Edgewood Drive and Critchfield Rd.
Parcel No. PARCEL B BLA SUR V78 P81

Inspector: _____
Date: _____

DRAINAGE FEATURE		INSPECTED	COMMENTS/MAINTENANCE TO BE PERFORMED
Control Structure/Flow Restrictor			
General	Trash & Debris	☐	
	Structural Damage	☐	
Cleanout Gate	Damaged or Missing	☐	
Orifice Plate	Damaged or Missing	☐	
	Obstructions	☐	
Overflow Pipe	Obstructions	☐	
Manhole	See Closed Detention Sys. Checklist if Present	☐	
Catch Basin	See CB Checklist if Present	☐	
	General Condition	☐	

ANNUAL MAINTENANCE INSPECTION CHECKLIST

Owner: Delhur Industries Inc.
Location: Northwest of Intersection of Edgewood Drive and Critchfield Rd.
Parcel No. PARCEL B BLA SUR V78 P81

Inspector: _____
Date: _____

DRAINAGE FEATURE		INSPECTED	COMMENTS/MAINTENANCE TO BE PERFORMED
Catch Basins			
General	Trash & Debris	☐	
	Sediment	☐	
	Frame or Top Slab State	☐	
	Basin Walls/Bottom State	☐	
	Settlement/Misalignment	☐	
	Vegetation	☐	
	Contamination and Pollution	☐	
Cover	Cover Present	☐	
	Locking Mechanism	☐	
	Removable	☐	
Ladder	Attachment	☐	
Metal Grates (If Applicable)	Grate Opening Unsafe	☐	
	Trash and Debris	☐	
	Damaged or Missing	☐	
	General Condition	☐	

ANNUAL MAINTENANCE INSPECTION CHECKLIST

Owner: Delhur Industries Inc.
Location: Northwest of Intersection of Edgewood Drive and Critchfield Rd. **Inspector:** _____
Parcel No. PARCEL B BLA SUR V78 P81 **Date:** _____

DRAINAGE FEATURE		INSPECTED	COMMENTS/MAINTENANCE TO BE PERFORMED
Energy Dissipaters			
External:			
Rock Pad	Missing or Moved Rock	☐	
	Erosion	☐	
Dispersion Trench	Pipe Plugged with Sediment	☐	
	Water Not Properly Discharged	☐	
	Perforations Plugged	☐	
	Water Flows Out of Top of Distributor CB	☐	
	Receiving Area Over-Saturated	☐	
Internal:			
Manhole	Worn or Damaged Post	☐	
	Other Defects	☐	
	General Condition	☐	

LEGEND

DRAINAGE NOTES

1. ALL CONSTRUCTION SHALL CONFORM WITH THESE PLANS AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION
2. CONTRACTOR SHALL NOTIFY UTILITY LOCATION SERVICE AND ARRANGE FOR FIELD LOCATION AND MARKING OF ALL UNDERGROUND UTILITIES IN AREA TO BE DISTURBED PRIOR TO CONSTRUCTION.
3. FINAL ELEVATIONS, GRADES, AND ACTUAL PIPE LOCATIONS ARE TO BE DETERMINED BY OWNER SUCH THAT THE FINAL ELEVATIONS AND DRAINAGE SYSTEMS CONFORM WITH THE PLANS AS ESTABLISHED HEREON. ANY CHANGES MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
4. EXISTING DETENTION/WETPOND TO BE REVISED TO MEET ENVIRONMENTAL/PLANNING WETLAND REQUIREMENTS INCLUDING REGRADING AND REPLANTING. SEE NOTES BELOW PLANTING REQUIREMENTS AND SHEET C4 FOR ADDITIONAL DETAILS AND SECTIONS
5. REVISED WETPOND TO BE REVETTED WITH THE FOLLOWING PLANT SPECIES:

A C2 TYPICAL GRAVEL SECTION
Scale: NTS

B C2 TYPICAL TRENCHING DETAL
Scale: NTS

C C2 NYLOPLAST DRAIN BASIN
Scale: NTS

D C2 OUTLET STRUCTURE REVISION
Scale: NTS

1 L1 SITE PLAN
Scale: 1" = 80'

MAXIMUM ALLOWABLE IMPERVIOUS COVERAGE: 14.2 ACRES TOTAL

ZENOVIC & ASSOCIATES, INCORPORATED
3018 FIFTY FIRST AVENUE
PUYALLUP, WASHINGTON 98372
PHONE: (253) 845-6470
FAX: (253) 845-6474
EMAIL: ZENOVIC@COMCAST.NET

NO.	DATE	REVISIONS	BY

AS-BUILT

OCEAN INDUSTRIES, INC
P.O. BOX 1116
PORT ANGELES, WA 98362

SCALE: 1" = 80'
DES: 1904 I-AS
JOB NO: 1904
DATE: February 28, 2020
SHT: AS-BUILT

SHEET 1

2

AS BUILT

December 20, 2023

1904.1

1904.1-AW

NTS

DELHUR INDUSTRIES, INC.
P.O. BOX 1116
Port Angeles, WA 98362

STORMWATER DETAILS

NO.	DESCRIPTION	DATE
1	AS BUILT	12/20/23

ZENOVIC & ASSOCIATES
INCORPORATED
201 E. 5TH STREET, SUITE 1
PORT ANGELES, WA 98362
PH: (360) 417-1401
FAX: (360) 417-1404
EMAIL: ZENOVIC@OLYMPIC.NET

D C3 GRAVEL DETENTION SYSTEM
Scale: NTS

TYPICAL SECTION

SCHEMATIC LAYOUT

BOUNDARY LINE ADJUSTMENT BLA 16-02

IN SECTION 12, TOWNSHIP 30 NORTH, RANGE 7 WEST, W.M.
CITY OF PORT ANGELES, CLALLAM COUNTY, WASHINGTON

LOT AREAS:

LOT AREAS BEFORE BOUNDARY LINE ADJUSTMENT

PARCEL A = 87.54 ACRES
PARCEL B = 23.06 ACRES

LOT AREAS AFTER BOUNDARY LINE ADJUSTMENT

PARCEL A = 84.98 ACRES
PARCEL B = 25.62 ACRES

LEGAL DESCRIPTIONS (BEFORE):

FOR LEGAL DESCRIPTION SEE INSTRUMENT RECORDED UNDER AUDITOR'S FILE NUMBER 2009-1231084, RECORDS OF CLALLAM COUNTY, WASHINGTON.

OWNERS' ACKNOWLEDGMENT

PROPERTY OWNERS:

EXAMINED AND APPROVED THIS 2 DAY OF June, 2016.

Scott Ackerman

SCOTT ACKERMAN
MEMBER, MANAGER

ACKNOWLEDGEMENT:

STATE OF WASHINGTON)
) SS
COUNTY OF CLALLAM)

THIS IS TO CERTIFY THAT ON THIS 2 DAY OF June, 2016, BEFORE ME, THE UNDERSIGNED, A NOTARY PUBLIC IN AND FOR THE STATE OF WASHINGTON, DULY COMMISSIONED AND SWORN, PERSONALLY APPEARED SCOTT ACKERMAN, TO ME KNOWN TO BE MEMBER, MANAGER OF A2Z ENTERPRISES, LLC, THE WASHINGTON LIMITED LIABILITY COMPANY THAT EXECUTED THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED THE SAID INSTRUMENT TO BE THE FREE AND VOLUNTARY ACT AND DEED OF SAID COMPANY FOR THE USES AND PURPOSES THEREIN MENTIONED AND ON OATH STATED THAT HE IS AUTHORIZED TO EXECUTE THE SAID INSTRUMENT.

WITNESS MY HAND AND OFFICIAL SEAL THE DAY AND YEAR FIRST ABOVE WRITTEN.

Diana R Dawson

NOTARY PUBLIC IN AND FOR THE STATE OF WASHINGTON
RESIDING AT Colfax Wa
MY COMMISSION EXPIRES Sept 24, 2018

DIANA R. DAWSON COMMISSION EXP NOTARY PUBLIC SEPT. 24, 2018 STATE OF WASHINGTON

SCOT B. CLARK STATE OF WASHINGTON 38956 REGISTERED PROFESSIONAL LAND SURVEYOR 6/1/16

FINAL CHECK: SBC
PLAT CHECK: JCA
DRAWN BY: SBC
SER#: 03W0712-DLHR1601-060116

NOTES:

1. THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE METHODS USING A 5 SECOND TOPCON GTS-235W TOTAL STATION AND STEEL TAPE.
2. THE BASIS OF BEARING FOR THIS SURVEY IS THE WASHINGTON COORDINATE SYSTEM GRID, NORTH ZONE, 1983 DATUM, 1991 ADJUSTMENT (WCS GRID) BASED ON CALCULATED TIES TO CONTROL POINTS GEOMPT #07301221 AND GEOMPT #07301231 AS SHOWN ON SURVEY RECORDED IN VOLUME 40 OF SURVEYS, PAGE 27. ALL DISTANCES SHOWN HEREON ARE REDUCED TO SAID GRID, A COMBINED SCALE FACTOR OF 0.99993135 AT GEOMPT #07301221 WAS USED FOR THIS SURVEY.
3. THIS SURVEY DOES NOT PURPORT TO SHOW THE EXISTENCE OF ALL EASEMENTS AND/OR ENCUMBRANCES RECORDED OR UNRECORDED THAT MAY AFFECT THIS PROPERTY.
4. THIS SURVEY WAS PERFORMED ACCORDING TO WAC 332-130-090 STANDARDS FOR LAND BOUNDARY SURVEYS. THIS SURVEY WAS NOT PERFORMED OR CERTIFIED TO MEET THE CURRENT "MINIMUM STANDARD REQUIREMENTS" OR "ACCURACY STANDARDS" FOR ALTA/ACSM LAND TITLE SURVEYS.
5. THIS CONVEYANCE IS FOR THE PURPOSE OF ACCOMPLISHING A BOUNDARY LINE ADJUSTMENT PURSUANT TO RCW 58.17.040(6). IT SHALL NOT CREATE ANY ADDITIONAL LOTS, TRACTS, PARCELS, OR DIVISION. RATHER, THE LAND DESCRIBED HEREIN SHALL MERGE OR BE INTEGRATED INTO ABUTTING PROPERTY PRESENTLY OWNED BY THE GRANTEE(S).
6. RIGHT OF WAY FOR EDGEWOO DRIVE IS BASED UPON SURVEYS RECORDED IN VOLUME 72 OF SURVEYS, PAGE 99 AND VOLUME 74 OF SURVEYS, PAGE 82 TOGETHER WITH INSTRUMENT RECORDED UNDER AUDITOR'S FILE NUMBER 2000-1049284. RIGHT OF WAY FOR LOWER ELWHA ROAD IS BASED UPON INSTRUMENT RECORDED UNDER AUDITOR'S FILE NUMBER 448878. RIGHT OF WAY FOR CRITCHFIELD ROAD IS BASED UPON INSTRUMENT RECORDED UNDER AUDITOR'S FILE NUMBER 357503.

ADDRESSES:

PARCEL A = 2917 WEST EDGEWOOD DRIVE
PARCEL B = UNADDRESSED PARCEL

TREASURER'S CERTIFICATE:

ALL TAXES AND ANY DELINQUENT ASSESSMENTS FOR WHICH THE LAND WITHIN THE LAND DIVISION MAY BE LIABLE AS OF THE DATE OF CERTIFICATION HAVE BEEN DULY PAID AS REQUIRED.

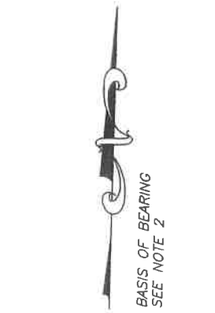
SeLinda Barthelmie by [illegible], Deputy

CLALLAM COUNTY TREASURER

CITY OF PORT ANGELES APPROVALS

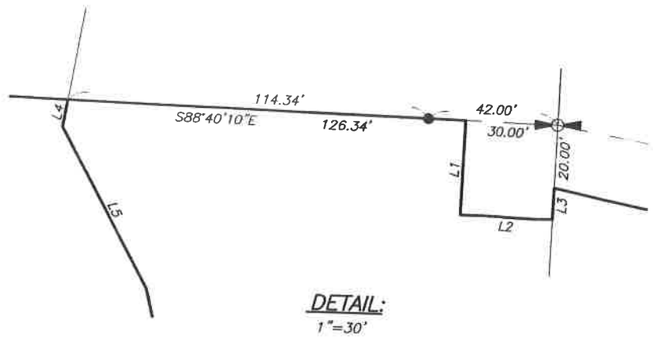
COMMUNITY & ECONOMIC DEVELOPMENT

PUBLIC WORKS & UTILITIES DIRECTOR



30 15 0 30

SCALE IN FEET



DETAIL:

1"=30'

N.T.S.

12(30N-7W)

SHEET 2 OF 2

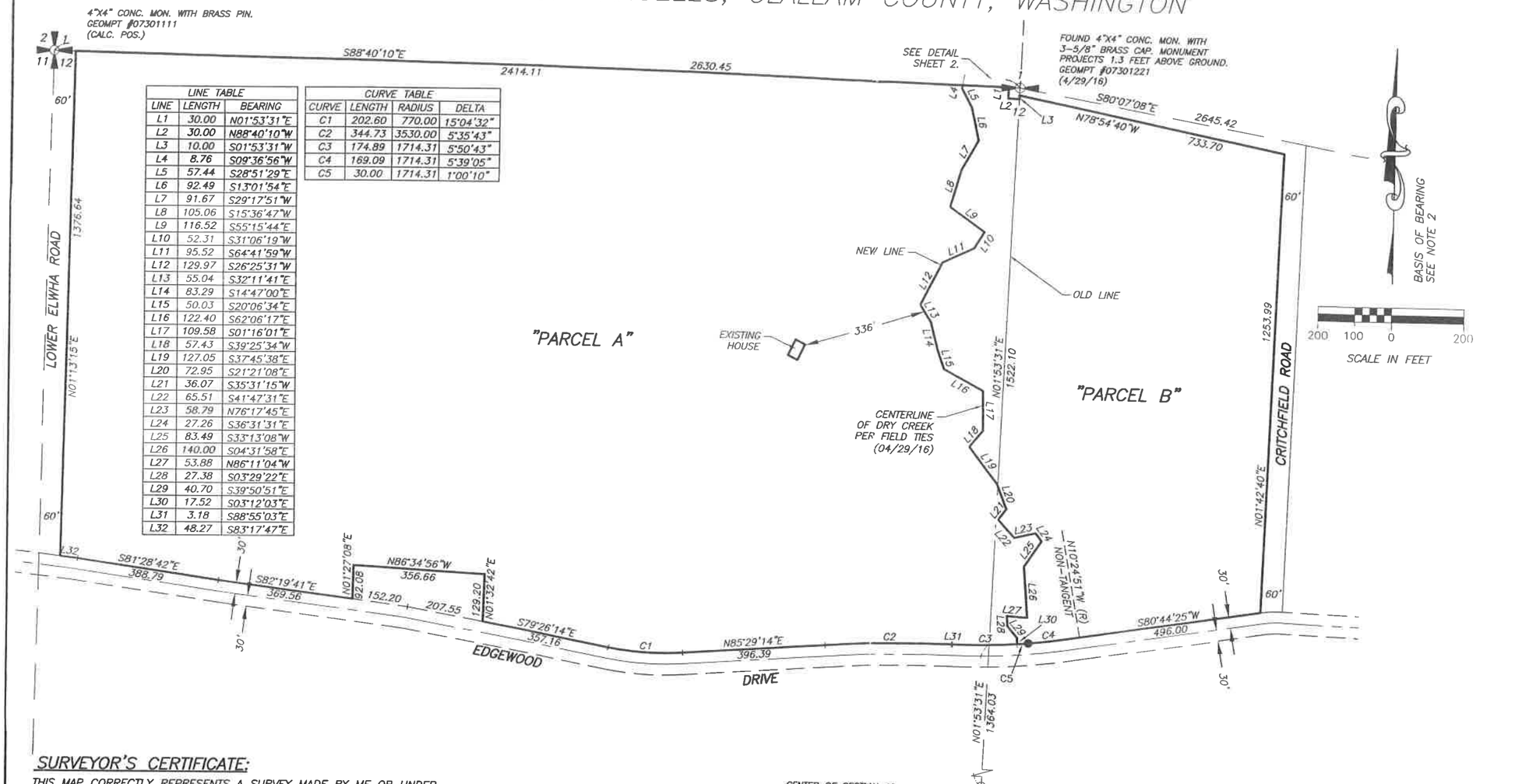
CLARK LAND OFFICE

LAND SURVEYING	P.O. Box 2199
MAPPING	935 N 5th Ave.
DEVELOPMENT CONSULTING	Sequim, WA 98382
CONSTRUCTION MANAGEMENT	(360) 681-2161
	FAX 683-5310
	(888) 681-2161

VOL. 78 PG. 81

BOUNDARY LINE ADJUSTMENT BLA 16-02

IN SECTION 12, TOWNSHIP 30 NORTH, RANGE 7 WEST, W.M.
CITY OF PORT ANGELES, CLALLAM COUNTY, WASHINGTON



LINE TABLE		
LINE	LENGTH	BEARING
L1	30.00	N01°53'31"E
L2	30.00	N88°40'10"W
L3	10.00	S01°53'31"W
L4	8.76	S09°36'56"W
L5	57.44	S28°51'29"E
L6	92.49	S13°01'54"E
L7	91.67	S29°17'51"W
L8	105.06	S15°36'47"W
L9	116.52	S55°15'44"E
L10	52.31	S31°06'19"W
L11	95.52	S64°41'59"W
L12	129.97	S26°25'31"W
L13	55.04	S32°11'41"E
L14	83.29	S14°47'00"E
L15	50.03	S20°06'34"E
L16	122.40	S62°06'17"E
L17	109.58	S01°16'01"E
L18	57.43	S39°25'34"W
L19	127.05	S37°45'38"E
L20	72.95	S21°21'08"E
L21	36.07	S35°31'15"W
L22	65.51	S41°47'31"E
L23	58.79	N76°17'45"E
L24	27.26	S36°31'31"E
L25	83.49	S33°13'08"W
L26	140.00	S04°31'58"E
L27	53.88	N86°11'04"W
L28	27.38	S03°29'22"E
L29	40.70	S39°50'51"E
L30	17.52	S03°12'03"E
L31	3.18	S88°55'03"E
L32	48.27	S83°17'47"E

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	202.60	770.00	15°04'32"
C2	344.73	3530.00	5°35'43"
C3	174.89	1714.31	5°50'43"
C4	169.09	1714.31	5°39'05"
C5	30.00	1714.31	1°00'10"

SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE SURVEY RECORDING ACT AT THE REQUEST OF A2Z ENTERPRISES, LLC IN APRIL, 2016.

SCOT B. CLARK
STATE OF WASHINGTON
38956
REGISTERED
PROFESSIONAL LAND SURVEYOR

SCOT B. CLARK, PLS
L.S. NUMBER 38956

DATE: 6/1/16

FINAL CHECK: SBC
PLAT CHECK: JCA
DRAWN BY: SBC
SER#: 03W0712-DLHR1601-060116

CENTER OF SECTION 12
FOUND 3-1/2"X 3-1/2" CONC. MON. WITH 1-1/4" LEAD PLUG. MONUMENT 0.25 FEET BELOW GROUND.
GEOMPT #073012.11
(5/27/16)

LEGEND:

● DENOTES SET 5/8" REBAR WITH PLASTIC SURVEY CAP STAMPED: "CLARK 38956"(5/27/16.

AUDITOR'S CERTIFICATE

FILED FOR RECORD THIS 7th DAY OF June, 2016, AT 9:20, A.M., IN BOOK 78 OF SURVEYS, ON PAGE 81 AT THE REQUEST OF SCOT B. CLARK.

Joni E. Wirth - Deputy
COUNTY AUDITOR

2016-1335381
AUDITOR'S FILE NUMBER

N.T.S.

12(30N-7W)

CLARK LAND OFFICE
LAND SURVEYING
MAPPING
DEVELOPMENT CONSULTING
CONSTRUCTION MANAGEMENT
P.O. Box 2199
935 N 5th Ave.
Sequim, WA 98382
(360) 681-2161
FAX 683-5310
(888) 681-2161

Conformed Copy 2016-1335381 Y 78 P 081

EXHIBIT
MAP FOR: # PROPOSED SEWER ROUTE

IN SECTION 12, TOWNSHIP 30 NORTH, RANGE 7 WEST, W.M.
CLALLAM COUNTY, WASHINGTON

REVIEW COPY

BASIS OF BEARING
SEE NOTE 2

150 75 0
SCALE IN FEET

S. CRITCHFIELD RD.

QUARTER CORNER
FOUND A 4"x4" CONCRETE
MONUMENT WITH 3-5/8" BRASS
CAP. GEOMPT#07301221.
(4/29/16)

N01°53'31"E
30.00'
(OVERALL TO SEC. COR.)

30'
30'

N01°53'31"E
10.00'
(BNDY. OF
PARCEL B)

S88°40'10"E
15.00'

N78°54'40"W
733.70'

N01°19'50"E
37.88'

CENTERLINE
OF DRY CREEK
PER FIELD TIES
(04/29/16)

N05°33'12"W
400.00'

LINE OF ORDINARY
HIGH WATER.
(8/2/22)

75' BUFFER FROM
LINE OF ORDINARY
HIGH WATER.

N01°25'12"E
400.00'

PARCEL B, VOL. 78,
SURVEYS, PG. 81

10'
10'

N25°25'24"W
400.00'

CENTERLINE OF
PROPOSED
SANITARY SEWER
ROUTE.

N01°42'40"E
1253.99'

S. CRITCHFIELD RD.

L=76.72
R=1714.31
Δ=2°33'51"

N10°46'03"E
282.72'

L=62.37
R=1714.31
Δ=2°05'04"

S80°44'25"W
496.00'

EDGEWOOD DR.

30'
30'
30'

176.72
106.72

NOTE:

1. THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE METHODS USING A 5 SECOND TOPCON GTS-235W TOTAL STATION, TOPCON HIPER VR GPS RECEIVER AND STEEL TAPE.
2. FOR BASIS OF BEARING AND SECTION SUBDIVISION DATA, SEE VOL. 78 OF SURVEYS, PAGE 81, RECORDS OF CLALLAM COUNTY, WASHINGTON.

LEGAL DESCRIPTION:

FOR LEGAL DESCRIPTION SEE INSTRUMENT RECORDED UNDER AUDITOR'S FILE NUMBER 2016-1335525, RECORDS OF CLALLAM COUNTY, WASHINGTON.

SCOT B. CLARK
STATE OF WASHINGTON
38956
REGISTERED
PROFESSIONAL LAND SURVEYOR

REVIEW COPY

SER#: 073012-DLHR1901_BASE-102122

LEGEND:

● DENOTES 5/8" REBAR WITH PLASTIC SURVEY CAP STAMPED: "CLARK 38956", PER VOL. 78, SURVEYS, PG. 81.

OCTOBER 21, 2022

N.T.S.

12(30N-7W)

CLARK LAND OFFICE
LAND SURVEYING
MAPPING
DEVELOPMENT CONSULTING
CONSTRUCTION MANAGEMENT
P.O. Box 2199
935 N 5th Ave
Sequim, WA 98382
(360) 681-2161
FAX 683-5310
(888) 681-2161

Clallam County Assessor & Treasurer

Property Search Results > 84329 DELHUR INDUSTRIES INC for Year 2024 - 2025

Property

Account

Property ID:	84329	Legal Description:	PARCEL B BLA SUR V78 P81
Geographic ID:	0730121200750000	Agent Code:	
Type:	Real		
Tax Area:	0010 - PA 121 PORT ST CNTY H2 L WMP	Land Use Code	91
Open Space:	N	DFL	N
Historic Property:	N	Remodel Property:	N
Multi-Family Redevelopment:	N		
Township:		Section:	
Range:			

Location

Address:	S CRITCHFIELD RD PORT ANGELES, WA 98363	Mapsco:	
Neighborhood:	PA Industrial	Map ID:	C42
Neighborhood CD:	5106000		

Owner

Name:	DELHUR INDUSTRIES INC	Owner ID:	21145
Mailing Address:	PO BOX 5270 W RICHLAND, WA 99353	% Ownership:	100.0000000000%
		Exemptions:	

Pay Tax Due

There is currently No Amount Due on this property.

Taxes and Assessment Details

Property Tax Information as of 11/05/2024

Amount Due if Paid on: NOTE: If you plan to submit payment on a future date, make sure you enter the date and click RECALCULATE to obtain the correct total amount due.

Click on "Statement Details" to expand or collapse a tax statement.

Year	Statement ID	First Half Base Amt.	Second Half Base Amt.	Penalty	Interest	Base Paid	Amount Due
▸ Statement Details							
2024	54872	$6989.62	$6989.55	$0.00	$0.00	$13979.17	$0.00
▸ Statement Details							
2023	55100	$3883.31	$3883.23	$0.00	$0.00	$7766.54	$0.00
▸ Statement Details							
2022	55325	$4133.76	$4133.65	$0.00	$0.00	$8267.41	$0.00
▸ Statement Details							
2021	55621	$3233.71	$3233.64	$0.00	$0.00	$6467.35	$0.00
▸ Statement Details							
2020	55995	$2914.55	$2914.48	$0.00	$0.00	$5829.03	$0.00
▸ Statement Details							
2019	56455	$2410.62	$2410.56	$0.00	$0.00	$4821.18	$0.00

Values

(+) Improvement Homesite Value:	+	$0	
(+) Improvement Non-Homesite Value:	+	$0	
(+) Land Homesite Value:	+	$0	
(+) Land Non-Homesite Value:	+	$384,300	
(+) Curr Use (HS):	+	$0	$0
(+) Curr Use (NHS):	+	$0	$0
(=) Market Value:	=	$384,300	
(–) Productivity Loss:	–	$0	

(=) Subtotal:	=	$384,300
(+) Senior Appraised Value:	+	$0
(+) Non-Senior Appraised Value:	+	$384,300
(=) Total Appraised Value:	=	$384,300
(–) Senior Exemption Loss:	–	$0
(–) Exemption Loss:	–	$0
(=) Taxable Value:	=	$384,300

Taxing Jurisdiction

Owner: DELHUR INDUSTRIES INC
% Ownership: 100.0000000000%
Total Value: $384,300
Tax Area: 0010 - PA 121 PORT ST CNTY H2 L WMP

Levy Code	Description	Levy Rate	Appraised Value	Taxable Value	Estimated Tax
ST SCH2	STATE SCHOOL PT 2	0.8091306662	$384,300	$384,300	$310.95
STATE SCH	STATE SCHOOL PT 1	1.5082776643	$384,300	$384,300	$579.63
CC GENERAL	CLALLAM COUNTY GENERAL	0.7396379723	$384,300	$384,300	$284.24
DEVDISIBLT	DEVELOPMENT DISABILITIES COUNTY	0.0205451200	$384,300	$384,300	$7.90
LND ASSMT	LAND ASSESSMENT COUNTY	0.0015400000	$384,300	$384,300	$0.59
TAX REFUND	TAX REFUND FUND COUNTY	0.0000000000	$384,300	$384,300	$0.00
VET RELIEF	VETERAN'S RELIEF COUNTY	0.0092452999	$384,300	$384,300	$3.55
CAPT IMP	CAPITAL IMPROVEMENT PORT DISTRICT	0.1105115198	$384,300	$384,300	$42.47
LIB	LIBRARY COUNTY	0.2936226339	$384,300	$384,300	$112.84
LIB BD	PORT ANGELES CITY LIBRARY BOND	0.0000000000	$384,300	$384,300	$0.00
PRT ANG	PORT ANGELES CITY GENERAL	1.6288833371	$384,300	$384,300	$625.98
REFUND BD	PORT ANGELES CITY REFUNDING BOND	0.0000000000	$384,300	$384,300	$0.00
SD 121 BD	SD 121 BOND	0.0000000000	$384,300	$384,300	$0.00
SD 121 CP	SD 121 CAPITAL PROJECTS	1.8446600841	$384,300	$384,300	$708.90
SD 121 GEN	SD 121 ENRICHMENT	0.9661991873	$384,300	$384,300	$371.31
HOSP 2 GEN	HOSPITAL DIST #2 GENERAL	0.3177019449	$384,300	$384,300	$122.09
WSMETPARK	WILLIAM SHORE MEMORIAL POOL MET PK DIST	0.3221312085	$384,300	$384,300	$123.80
CON FUTURE	CONSERVATION FUTURES	0.0178280580	$384,300	$384,300	$6.85
	Total Tax Rate:	8.5899146963			

Taxes w/Current Exemptions: $3,301.10
Taxes w/o Exemptions: $3,301.10

Improvement / Building

Sketch

No sketches available for this property.

Property Image

Land

#	Type	Description	Acres	Sqft	Eff Front	Eff Depth	Market Value	Prod. Value
1	9100	9100	25.6200	1116007.20	0.00	0.00	$384,300	$0

Roll Value History

Year	Improvements	Land Market	Current Use	Total Appraised	Taxable Value
2025	N/A	N/A	N/A	N/A	N/A
2024	$0	$384,300	$0	$384,300	$384,300
2023	$0	$295,000	$0	$295,000	$295,000
2022	$0	$295,000	$0	$295,000	$295,000
2021	$0	$295,000	$0	$295,000	$295,000
2020	$0	$295,000	$0	$295,000	$295,000
2019	$0	$295,000	$0	$295,000	$295,000
2018	$0	$295,000	$0	$295,000	$295,000
2017	$0	$295,000	$0	$295,000	$295,000
2016	$0	$275,000	$0	$275,000	$275,000

Deed and Sales History

#	Deed Date	Type	Description	Grantor	Grantee	Volume	Page	Sale Price	Excise Number
1	06/10/2016	WARRANTY D	WARRANTY DEED	DELHUR FINANCIAL LLC					0
2		QUIT CLAIM	QUIT CLAIM DEED	DANIEL L MORRISON ETAL	A2Z ENTERPRISES LLC	0		$0.00	200885906
3		WARRANTY D	WARRANTY DEED	PORT OF PORT ANGELES	DANIEL/KELIE MORRISON ETAL	0		$1,050,000.00	200884958
4		WARRANTY D	WARRANTY DEED	PORT OF PORT ANGELES	CLALLAM COUNTY RD DEPT	0		$406.00	200048321
5		QUIT CLAIM	QUIT CLAIM DEED	FORT JAMES OPERATING CO	DAISHOWA AMERICA CO LTD	0		$0.00	200046823
6		WARRANTY D	WARRANTY DEED	DEL HUR INC	PORT OF PORT ANGELES	0		$375,000.00	199840428

Payout Agreement

No payout information available.

Clallam County Public Works Department
223 East Fourth Street, Suite 6 Port Angeles, WA 98362
360- 417-2379 Phone 360-417-2513 Fax

$180 FEE Minimum Due With Application

FILE COPY

ROAD NO. 93110
ROAD NAME Edgewood Dr.
PERMIT NO. RAP 2017 - 00149
COUNTY USE ONLY

CLALLAM COUNTY ROAD APPROACH PERMIT

In Clallam County, an approved Road Approach is required if your parcel is accessed from a County Road. Building permits will not be finaled until a legal Road Approach is in place and functioning as permitted.

PLEASE PRINT — Building Permit Application Submitted? Yes ☐ No ☒

County Road: Edgewood Dr.	Tax Parcel #: 07-30-12-12-0075
Landowner: Delhur Financial	Prepared By (Agent): A.L. Sample
Mailing Address: P.O. Box 1116	Address: P.O. Box 1116
City, State, Zip: Port Angeles Wa. 98362	City, State, Zip: Port Angeles Wa. 98362
Phone/Cell Phone/Fax: 360-457-1133	Phone/Cell Phone/Fax: 360-457-1133
Email: tsample@delhur.com	Contractor's Name/Address/Phone: 360-457-1133
Short Plat Name & Lot No.: Parcel B BLA SUB V78 P81 2565	Delhur Ind. Inc. P.O Box 1116 PA Wa. 98362

Do you have critical areas on your property? Yes ☐ No ☐ If "No", proceed with this application. If "Yes", or you are not sure, STOP. See the Planning Department for a determination before you proceed.

ROAD APPROACH PERMISSION IS REQUESTED FOR:

Check all that apply below:

- ☐ Single-lot driveway
- ☐ Multiple-lot driveway
- ☒ Commercial driveway
- ☐ Agricultural driveway
- ☒ Permanent access
- ☐ Temporary access
- ☐ Upgrade of existing approach
- ☐ Review of existing approach
- ☒ Pave Approach

WHEN APPROVED:

Check one item below:

- ☐ Mail permit to Landowner
- ☐ Mail permit to Contractor/Agent
- ☒ Call when approved 360-457-1133

Hi Greg-
Can you look at this please?
thanks
Julie
OKay (INCLUDED)

ITE PLAN MAP (NO LARGER THAN 11" X 17") THAT MARKS THE LOCATION OF CT. A SITE PLAN FORM IS PROVIDED.

Y OR ACCESS ROAD MUST BE MARKED BY A WOOD STAKE PLACED AT THE BMITTING THIS FORM. THE STAKE MUST BE LABELED WITH THE NAME OF THE ESULT IN DELAY OF THE PROCESSING OF THIS PERMIT.

l utilities and private property owners when such property is liable to injury or damage The applicant shall make all necessary arrangements relative to the protection of such

o comply with all conditions as stated on the PERMIT and on Form n permit approval date to request clarification of or modification to permit

A.L. Sample Date 8/21/17
k one: ☐ Owner ☐ Contractor ☒ Agent

☐ DENIED

Amount/Date Paid	$180 8/31/17
Receipt #	336851 / 7162045
Rec'd By	SAS
Building Permit BPT#	

☐ Prior to Cover ☐ Prior to Paving ☒ Final

PERMIT CONDITIONS:

The approved Permit must be posted on site until Final Inspection **POSTING COPY PROVIDED TO:** _____

- Underground utility location required prior to start date. "Call Before You Dig" phone number 1-800-424-5555.
- Safety vests required when working on road right of way.
- Traffic control signs are required.
- Must comply with County utility location standards.
- Driveway shall not protrude into County road. Landowner, applicant, contractor or agent shall not damage or leave mud or other debris on a County road.
- No landscaping or decorative electrical utilities permitted in County right of way.
- Private contractor to install. See inspection requirements.
- Compaction in 6-inch lifts required.
- Backfill must be compacted, granular material.
- Driveway shall be built in accordance with County's Road Approach Details.

Vegetation on both sides of the new approach shall be trimmed and maintained for a minimum sight distance triangle of 360 feet. Pave all portions of the apron within County R/W with 2" of hot mix asphalt and crack seal.

Critical Areas Checked ☐ Conditions:

- ☐ Certified flag person required at all times.
- ☒ Certified flag person required as needed.
- ☐ Truck Crossing Ahead signs required.
- ☒ No culvert required
- ☒ Approach to be paved 2" HMA
- ☐ Culvert required: ___ Diameter ___ Length with ends tapered at 4:1.
  Allowable Type(s): ☐ Concrete ☐ Galvanized steel ☐ Aluminum ☐ Aluminized ☐ Corrugated poly. with smooth interior
- ☐ Culvert shall not impede drainage.
- ☐ _____

This permit shall be void unless the work herein contemplated is completed before the following date: Feb. 28, 2018

Area Supervisor/Design Review Engineer — Date 8-11-17

Final Inspection By: _____ Date: _____

CLALLAM COUNTY ROAD APPROACH PERMIT
INSTRUCTIONS AND CONDITIONS FOR APPLICANTS

Persons desiring to install road approaches onto County property, including County roads, shall first file a "Clallam County Road Approach Permit" with the County Engineer and shall obtain approval prior to beginning work. The work and materials shall conform to the conditions below, the conditions stated on the face of the permit, and shall conform to the requirements on the detail sheet for residential applications or commercial applications, whichever is applicable.

UPON COMPLETION OF THE WORK, THE APPLICANT SHALL NOTIFY THE COUNTY PUBLIC WORKS DEPARTMENT AT (360) 417-2379 FOR FINAL INSPECTION AND APPROVAL.

PERMIT CONDITIONS

1. The applicant, designated herein as the "grantee", his agents, successors and assigns, shall have the right and, authority to enter upon the right of way of the County road, street, alley, public place or structure as indicated on the front of this form, for the purpose of doing such work as applied for, and approved by the County Engineer.

2. The location, type of work, materials and equipment used, manner of erection or construction, safeguarding of public traffic during work or after doing same, mode of operation and manner of maintenance of project petitioned for, shall be approved by the County Engineer prior to start of work and shall be subject to the inspection of the County Engineer so as to assure proper compliance with the terms of this permit.

3. **The grantee shall commence work within 30 days after the granting of this permit, if the grantee shall have not completed the installation by the date specified on the permit, the rights herein conferred shall cease and terminate unless additional time is requested by the grantee and approved by the county.**

4. The grantee shall leave all roads, streets, alleys, public places, and structures after installation and operation or removal of utility, in as good and safe a condition in all respects as same were in before commencement of work by grantee.

5. In case of any damage to any roads, streets, public places, structures or public property of any kind on account of said work by the grantee, he will at once repair said damage at his own sole cost and expense.

6. The County Engineer, his agents or representatives may do, order, or have done any and all work considered necessary to restore to a safe condition any street, alley, public place or structure which is in a condition dangerous to a life or property resulting from the grantee's facility or its installation as permitted herein, and upon demand the grantee shall pay to the County all costs of such work and material.

7. If at any time the County deems it advisable to widen, grade, regrade, plant, pave, improve, alter or repair any road, street, public place or structure, the County will not be obligated to spend time nor money due to the permitted installation. The grantee will, at his own sole cost and expense, raise, lower, change, move or reconstruct such installation to conform to the plans or work contemplated or ordered by the County.

8. If upon written notice by the County Engineer the grantee fails to relocate any portion or all of the project as granted under this permit, the County, its agents or representatives may do any work at the cost and expense of the grantee, and all costs to remove or reconstruct same, shall be born by the grantee.

9. All such changes, reconstruction or relocation by the grantees shall be done in such a manner as will cause the least interference with any of the County's work and shall be subject to the same provisions which control an original installation. The County shall in no wise be held liable for any damage to the grantee by reason of any such work by the County, its agents or representatives, or by the exercise of any rights by the County upon roads, streets, public places or structures in question. The grantee shall have twenty-four (24) hours written notice by the County Engineer or his representatives or agents of any blasting contiguous to the grantee's permit rights in order that he may protect his interests.

10. This grant or privilege shall not be deemed or held to be an exclusive franchise, nor prohibit the County from granting other permits of franchise rights of like or other nature to other public or private entities, nor shall it prevent the County from using any of its roads, street, public places for any and all public use, or affect its jurisdiction over all or any part of them.

11. All the provisions, conditions, regulations and requirements herein contained shall be binding upon the successors and assigns of the grantee and all privileges of the grantee shall inure to such successors and assigns as if they were specifically mentioned.

12. The County Engineer may revoke, annul or terminate this permit if grantee fails to comply with any or all of its provisions, requirements or regulations as herein set forth or through willful or unreasonable neglect, fails to heed or comply with notices given him or if the work herein permitted is not installed or operated and maintained in conformity herewith or at all.

13. The Board of County Commissioners may at any time, change, amend, modify, or terminate any of the conditions herein enumerated so as to conform to any state statute or county regulation pertaining to the public welfare, safety, health, or highway regulations as are, or may hereinafter bet enacted, adopted or amended, etc. The Board may terminate this permit if grantee fails to comply with any such changes.

14. In accepting this permit the grantee agrees to notify and check with all utilities regarding their installations before commencing work, together with private property owners when such property is liable to injury or damage through the performance of such work, and the applicant shall make all necessary arrangements relative to the protection of such property and/or utilities.

15. In accepting this permit the grantee, his agents, successors and assigns, agrees to protect and save harmless the County from all claims, actions or damages of every kind and description which may accrue to or be suffered by any person or persons, corporation or property by reason of the performance of any such work, character of materials used or manner of installation, maintenance and operation or by the improper occupancy of rights of way or public place or public structure, and in case any such suit or action is brought against said County for damages arising out of or by reason of any of the above causes, the grantee, his agents, successors or assigns will upon written notice to him or them or commencement of such action defend the same at his or their sole cost and expense and will fully satisfy any judgment after the said suit or action shall have finally been determined if adversely to the County.

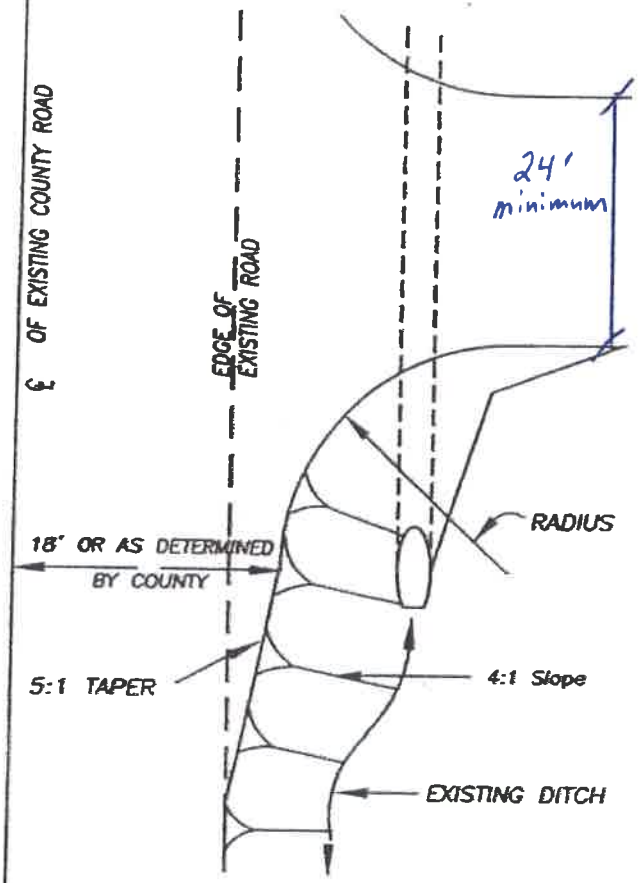
16.

17.

ROAD APPROACH DETAILS

COMMERCIAL AND RESIDENTIAL APPLICATIONS

PLAN



NOTES:

DRIVEWAY MUST LEAD TO AN ADEQUATE TURN AROUND AREA SO VEHICLE CAN TURN AROUND AND EXIT PROPERTY IN A FORWARD MOTION UNLESS APPROVED OTHERWISE.

★ ALL SIGHT OBSTRUCTIONS MUST BE PERMANENTLY REMOVED.

★ DRIVEWAY WIDTH AT R/W LINE
= 15' TO 18' FOR SINGLE FAMILY
= 24' TO 30' FOR COMMERCIAL AND MULTI FAMILY.

★ SHAPE DRIVEWAY SO THAT WATER DOES NOT RUN ONTO COUNTY ROAD.

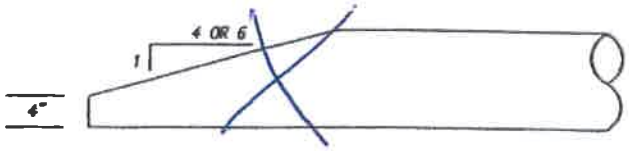
★ APPROACH SHOULD BE AT A 90 DEGREE ANGLE +/− 15 DEGREES.

★ SINGLE FAMILY DRIVEWAYS SHALL HAVE 15' RADIUS OF RETURNS AND TAPERS AT 5:1.

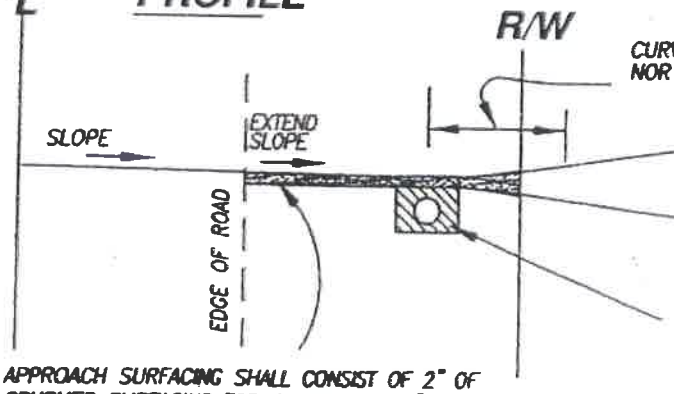
★ COMMERCIAL DRIVES WILL HAVE RADIUS OF RETURNS AND TAPERS DETERMINED BY THE ROAD DEPARTMENT.

★ SLOPE FROM DRIVE TO DITCH WILL BE DETERMINED BY COUNTY ENGINEER. SLOPE SHALL BE 4 OR 6 HORIZONTAL : 1 VERTICAL.

BEVEL ENDS OF CULVERT AS SHOWN



PROFILE



CURVE SHALL NOT EXCEED 3 1/4" HUMP NOR 2" DEPRESSION IN A 10' LENGTH.

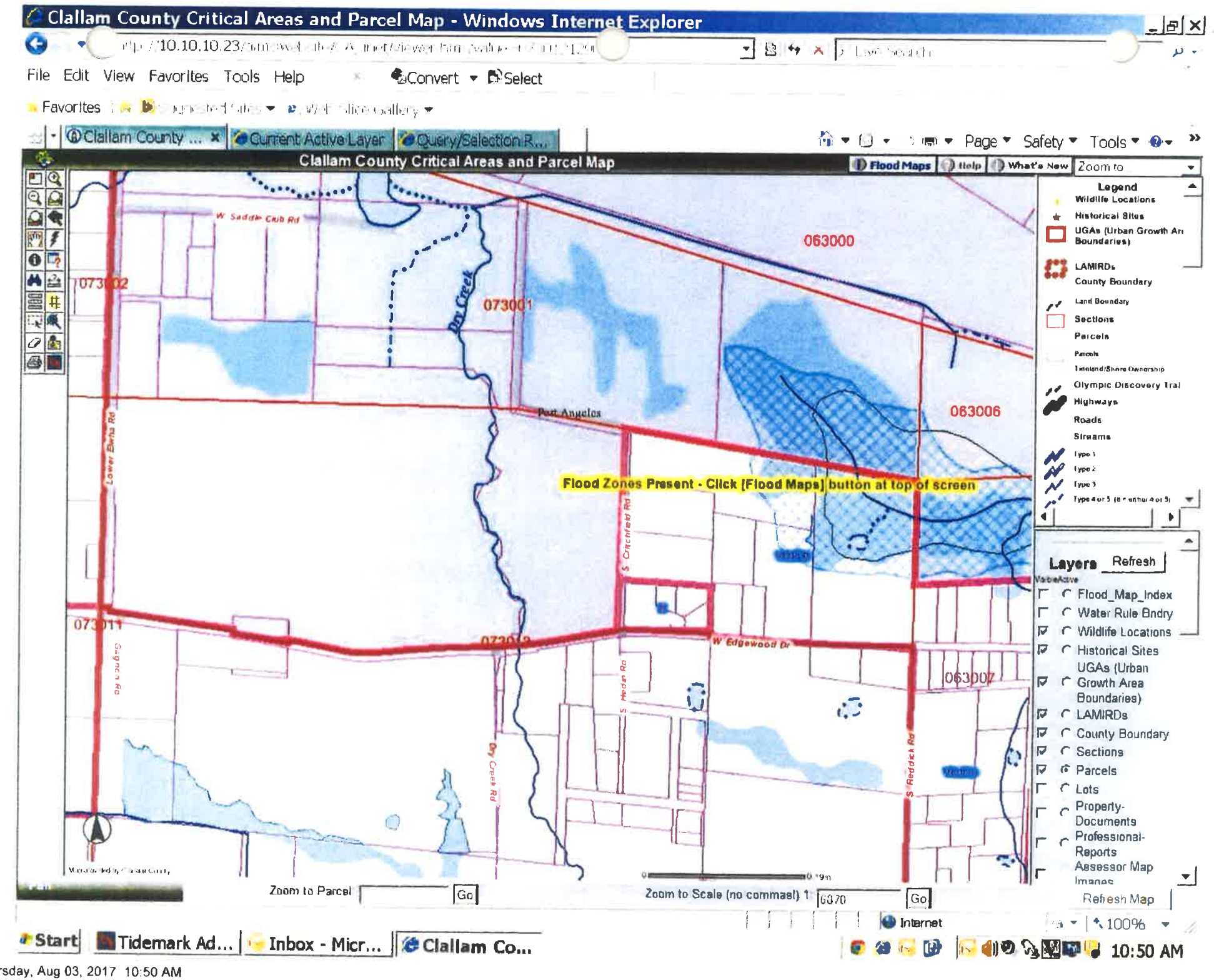
MAX ASCENDING SLOPE = +10%

MAX DESCENDING SLOPE = −10%

CRUSHED GRAVEL TO BE A MINIMUM 6" BELOW AND 12" EACH SIDE OF CULVERT. CULVERTS SHOULD HAVE AT LEAST 12" OF COVER OVER THE TOP OF THE PIPE.*

APPROACH SURFACING SHALL CONSIST OF 2" OF CRUSHED SURFACING TOP COURSE AND 6" OF PIT RUN GRAVEL (MULTI FAMILY AND COMMERCIAL APPROACHES SHALL BE TOPPED WITH 2" OF ASPHALT CONCRETE).*

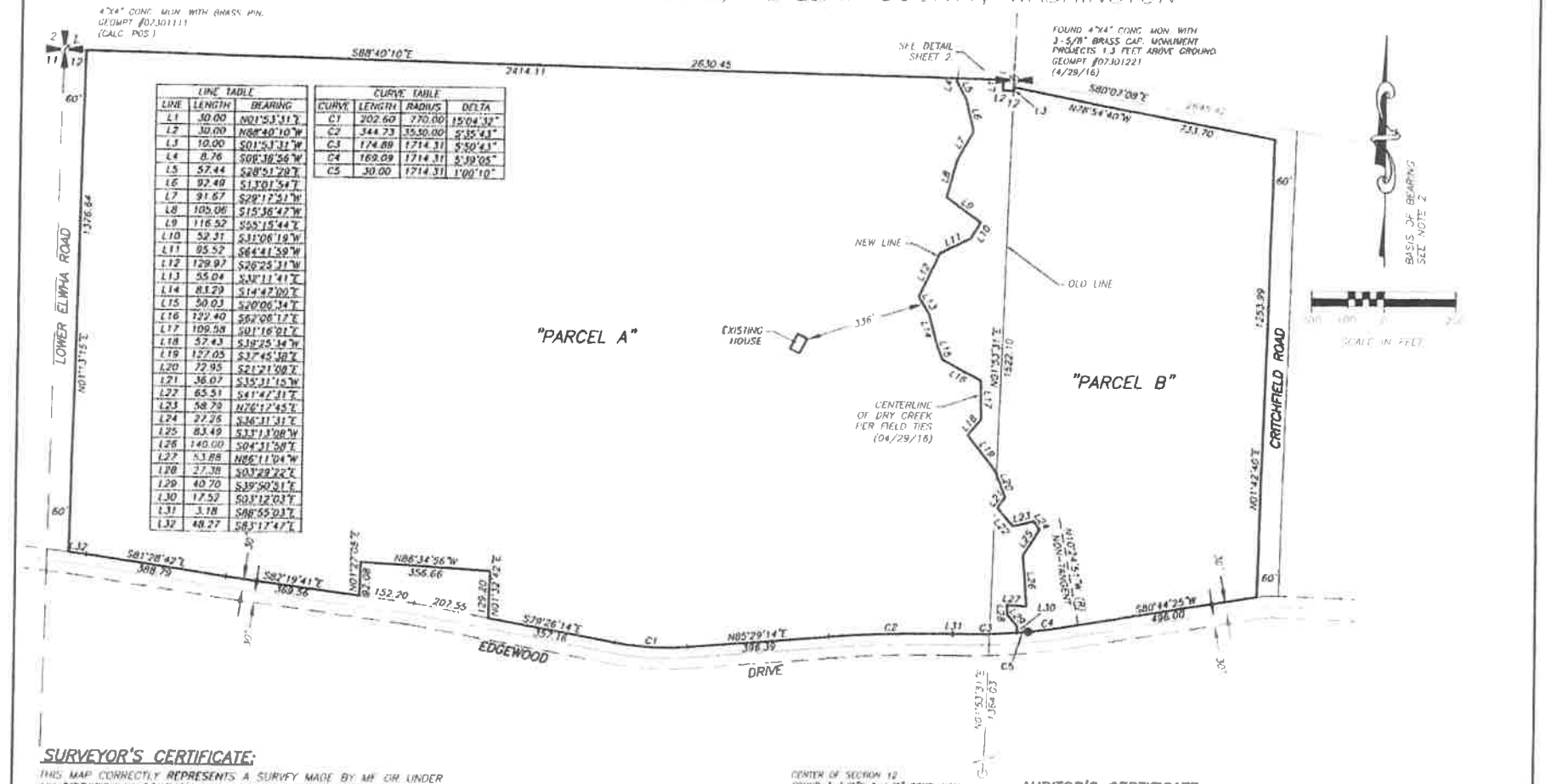
*ALL MATERIALS TO BE THOROUGHLY COMPACTED. THICKNESS GIVEN ARE MINIMUM THICKNESSES.



Thursday, Aug 03, 2017 10:50 AM

BOUNDARY LINE ADJUSTMENT BLA 16-02

IN SECTION 12, TOWNSHIP 30 NORTH, RANGE 7 WEST, W.M.
CITY OF PORT ANGELES, CLALLAM COUNTY, WASHINGTON



LINE TABLE		
LINE	LENGTH	BEARING
L1	30.00	N01°53'31"E
L2	30.00	N88°40'10"W
L3	10.00	S01°53'31"W
L4	8.76	S08°36'56"W
L5	57.44	S28°51'28"E
L6	92.49	S13°01'54"E
L7	91.67	S29°17'51"W
L8	105.06	S15°36'47"W
L9	116.52	S05°15'44"E
L10	52.31	S31°06'19"W
L11	85.52	S64°41'39"W
L12	129.97	S26°25'31"W
L13	55.04	S36°11'41"E
L14	83.29	S14°47'00"E
L15	50.03	S20°06'34"E
L16	122.40	S62°06'17"E
L17	109.58	S01°16'21"E
L18	57.43	S31°25'34"W
L19	127.05	S37°46'38"E
L20	72.95	S21°21'00"E
L21	36.07	S35°31'15"W
L22	65.51	S41°42'31"E
L23	58.78	N76°12'45"E
L24	27.26	S36°31'31"E
L25	83.49	S33°13'08"W
L26	140.00	S04°31'58"E
L27	53.88	N86°11'04"W
L28	27.38	S03°28'22"E
L29	40.70	S39°50'31"E
L30	17.52	S03°12'03"E
L31	3.18	S86°55'03"E
L32	48.27	S85°17'47"E

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	202.60	770.00	15°04'32"
C2	344.73	3550.00	5°33'43"
C3	174.89	1714.31	5°50'43"
C4	169.09	1714.31	5°39'05"
C5	30.00	1714.31	1°00'10"

SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE SURVEY RECORDING ACT AT THE REQUEST OF AZZ ENTERPRISES, LLC IN APRIL, 2016.

SCOT B. CLARK, STATE OF WASHINGTON, 38956, REGISTERED PROFESSIONAL LAND SURVEYOR

SCOT B. CLARK, P.L.S.
U.S. NUMBER 38956
DATE: 6/1/16

LEGEND:

● DENOTES SET 5/8" REBAR WITH PLASTIC SURVEY CAP STAMPED: "CLARK 38956"(5/27/16.

AUDITOR'S CERTIFICATE

FILED FOR RECORD THIS 7th DAY OF June, 2016, AT 9:20 A.M., IN BOOK 78 OF SURVEYS, ON PAGE 81 AT THE REQUEST OF SCOT B. CLARK

Jami E. Smith - Deputy
COUNTY AUDITOR

2016-1335381
AUDITOR'S FILE NUMBER

N.T.S.

12(30N-7W)

CLARK LAND OFFICE
LAND SURVEYING
MAPPING
DEVELOPMENT CONSULTING
CONSTRUCTION MANAGEMENT

SHEET 1 OF 2

VOL 78 PG 81

BOUNDARY LINE ADJUSTMENT BLA 16-02

IN SECTION 12, TOWNSHIP 30 NORTH, RANGE 7 WEST, W.M.
CITY OF PORT ANGELES, CLALLAM COUNTY, WASHINGTON

LOT AREAS:

LOT AREAS BEFORE BOUNDARY LINE ADJUSTMENT

PARCEL A = 87.54 ACRES
PARCEL B = 2.306 ACRES

LOT AREAS AFTER BOUNDARY LINE ADJUSTMENT

PARCEL A = 84.98 ACRES
PARCEL B = 25.62 ACRES

LEGAL DESCRIPTIONS (BEFORE):

FOR LEGAL DESCRIPTION SEE INSTRUMENT RECORDED UNDER AUDITOR'S FILE NUMBER 2009-1231084, RECORDS OF CLALLAM COUNTY, WASHINGTON.

OWNERS' ACKNOWLEDGMENT

PROPERTY OWNERS:

EXAMINED AND APPROVED THIS 2 DAY OF June, 2016

Scott Ackerman

SCOTT ACKERMAN
MEMBER, MANAGER

ACKNOWLEDGEMENT:

STATE OF WASHINGTON)
) SS
COUNTY OF CLALLAM)

THIS IS TO CERTIFY THAT ON THIS 2 DAY OF June, 2016, BEFORE ME, THE UNDERSIGNED, A NOTARY PUBLIC IN AND FOR THE STATE OF WASHINGTON, DULY COMMISSIONED AND SWORN, PERSONALLY APPEARED SCOTT ACKERMAN, TO ME KNOWN TO BE MEMBER, MANAGER OF A2Z ENTERPRISES, LLC, THE WASHINGTON LIMITED LIABILITY COMPANY THAT EXECUTED THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED THE SAID INSTRUMENT TO BE THE FREE AND VOLUNTARY ACT AND DEED OF SAID COMPANY FOR THE USES AND PURPOSES THEREIN MENTIONED AND ON OATH STATED THAT HE IS AUTHORIZED TO EXECUTE THE SAID INSTRUMENT.

WITNESS MY HAND AND OFFICIAL SEAL THE DAY AND YEAR FIRST ABOVE WRITTEN.

Riana R Dawson
NOTARY PUBLIC IN AND FOR THE STATE OF WASHINGTON
RESIDING AT Colfax Wa
MY APPOINTMENT EXPIRES Sept 24 2018

RIANA R. DAWSON
COMMISSION EXP.
NOTARY PUBLIC
SEPT. 24, 2018
STATE OF WASHINGTON

SCOT B. CLARK
STATE OF WASHINGTON
20006
REGISTERED
PROFESSIONAL LAND SURVEYOR
6/1/16

NOTES:

1. THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE METHODS USING A 5 SECOND TOPCON GTS-235W TOTAL STATION AND STEEL TAPE.
2. THE BASIS OF BEARING FOR THIS SURVEY IS THE WASHINGTON COORDINATE SYSTEM GRID, NORTH ZONE, 1983 DATUM, 1991 ADJUSTMENT (WCS GRID) BASED ON CALCULATED ties TO CONTROL POINTS GEOMPT #07301221 AND GEOMPT #07301231 **AS SHOWN ON SURVEY RECORDED IN VOLUME 40 OF SURVEYS, PAGE 27. ALL DISTANCES SHOWN HEREON ARE REDUCED** TO SAID **GRID. A COMBINED** SCALE FACTOR OF 0.99993135 AT GEOMPT #07301221 WAS USED FOR THIS SURVEY.
3. THIS SURVEY DOES NOT PURPORT TO SHOW THE EXISTENCE OF ALL EASEMENTS AND/OR ENCUMBRANCES RECORDED OR UNRECORDED THAT MAY AFFECT THIS PROPERTY.
4. THIS SURVEY WAS PERFORMED ACCORDING TO WAC 332-130-090 STANDARDS FOR LAND BOUNDARY SURVEYS. THIS SURVEY WAS NOT PERFORMED OR CERTIFIED TO MEET THE CURRENT "MINIMUM STANDARD REQUIREMENTS" OR "ACCURACY STANDARDS" FOR ALTA/ACSM LAND TITLE SURVEYS.
5. THIS CONVEYANCE IS FOR THE PURPOSE OF ACCOMPLISHING A BOUNDARY LINE **ADJUSTMENT PURSUANT TO RCW 58.17.040(6). IT SHALL NOT CREATE ANY ADDITIONAL LOTS, TRACTS, PARCELS,** OR **DIVISION. RATHER, THE LAND DESCRIBED** HEREIN SHALL MERGE OR BE INTEGRATED INTO ABUTTING **PROPERTY** PRESENTLY OWNED BY THE GRANTEE(S).
6. RIGHT OF WAY FOR EDGEWOD DRIVE IS BASED UPON SURVEYS RECORDED IN VOLUME 72 OF SURVEYS, PAGE 99 AND VOLUME 74 OF SURVEYS, PAGE 62 TOGETHER WITH INSTRUMENT RECORDED UNDER AUDITOR'S FILE NUMBER 2000 1049284. RIGHT OF WAY FOR LOWER ELWHA ROAD IS BASED UPON INSTRUMENT RECORDED UNDER AUDITOR'S FILE NUMBER 448878. RIGHT OF WAY FOR CRITCHFIELD ROAD IS BASED UPON INSTRUMENT RECORDED UNDER AUDITOR'S FILE NUMBER 357503.

ADDRESSES:

PARCEL A = 2917 WEST EDGEWOOD DRIVE
PARCEL B = UNADDRESSED PARCEL

SCALE IN FEET

TREASURER'S CERTIFICATE:

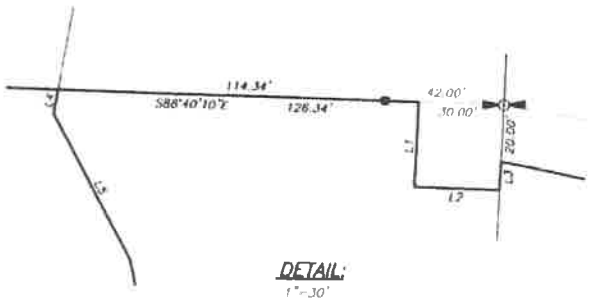
ALL TAXES AND ANY DELINQUENT ASSESSMENTS FOR WHICH THE LAND WITHIN THE LAND DIVISION MAY BE LIABLE AS OF THE DATE OF CERTIFICATION HAVE BEEN DULY PAID AS REQUIRED.

Selinda Barkhuis by Wheeler, Deputy
CLALLAM COUNTY TREASURER

CITY OF PORT ANGELES APPROVALS

COMMUNITY & ECONOMIC DEVELOPMENT

PUBLIC WORKS & UTILITIES DIRECTOR



DETAIL:

1"=30'

N.T.S.

12(30N-7W)

SHEET 2 OF 2

CLARK LAND OFFICE
LAND SURVEYING
MAPPING
DEVELOPMENT CONSULTING
CONSTRUCTION MANAGEMENT

VOL 78 PG 81

Clallam County WASURVEY
2 of 2
CLARK LAND OFFICE

CLALLAM COUNTY DEPARTMENTS OF
COMMUNITY DEVELOPMENT and ROADS

PERMIT APPLICATION SITE PLAN
PLEASE SHOW ALL REQUIRED INFORMATION

E

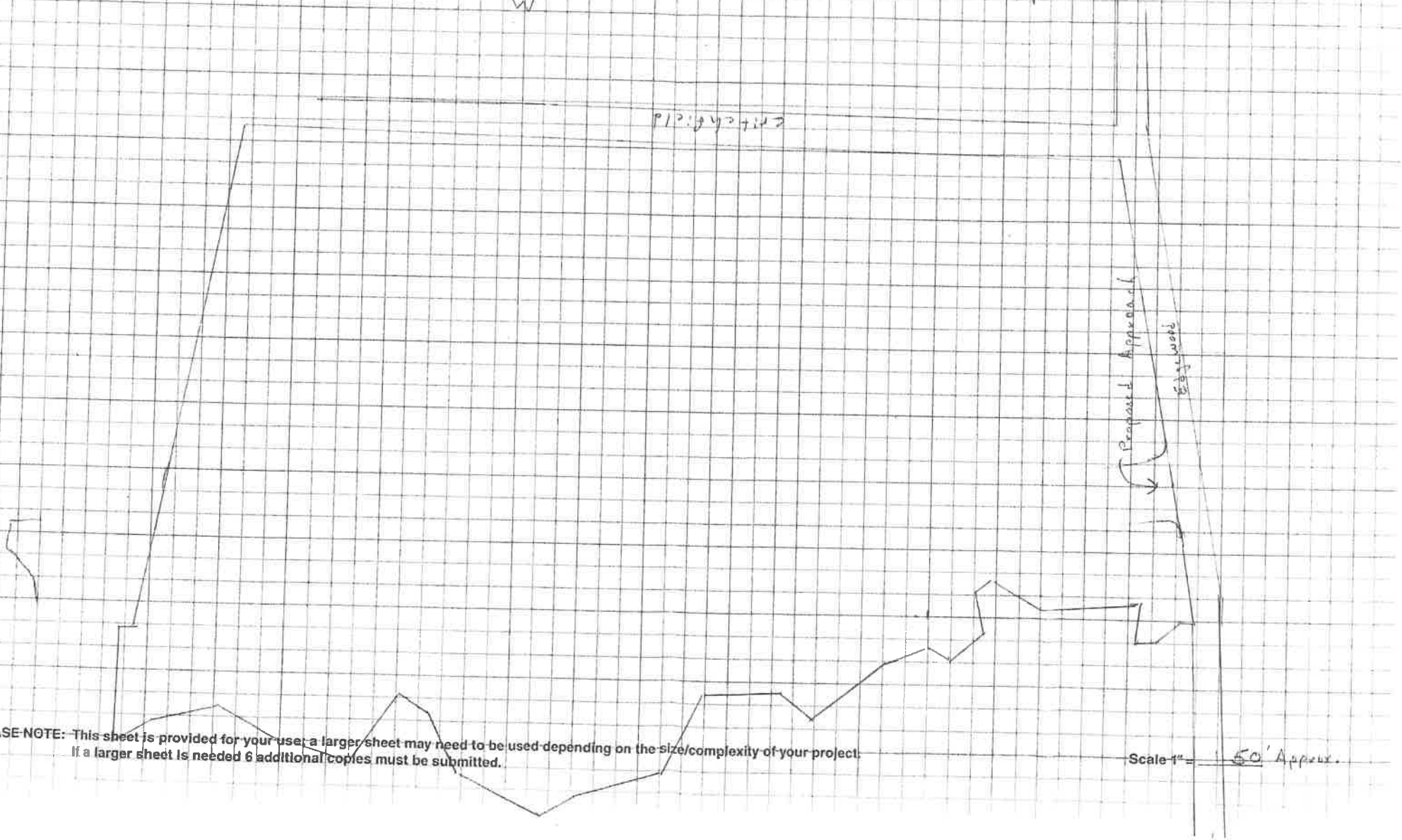
W

Please Indicate Direction

Applicant Delbert Jud Jr. Staff Initials

Parcel # 07-30-12-12-0075 Permit #

Applicant Signature/Date A.J. Sample



PLEASE NOTE: This sheet is provided for your use; a larger sheet may need to be used depending on the size/complexity of your project.
If a larger sheet is needed 6 additional copies must be submitted.

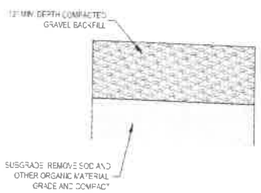
Scale 1" = 50' Approx.

LEGEND: (UNLESS OTHERWISE NOTED)

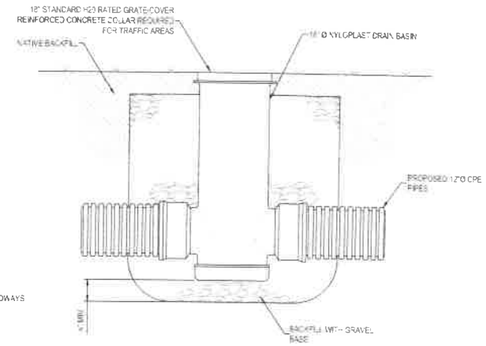
- PROPERTY BOUNDARY
- SETBACK
- EXISTING DITCH LINE
- EDGE OF GRAVEL
- SILT FENCE
- EXISTING 2' MINOR CONTOURS
- EXISTING 10' MAJOR CONTOURS
- PROPOSED 5' CONTOURS
- EDGE OF ASPHALT
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- STRAW WATTLES
- EXISTING TY 1 CATCH BASIN
- PROPOSED TY 2 CATCH BASIN
- EXISTING GRAVEL
- PROPOSED GRAVEL
- EXISTING FORESTED AREA

DRAINAGE NOTES:

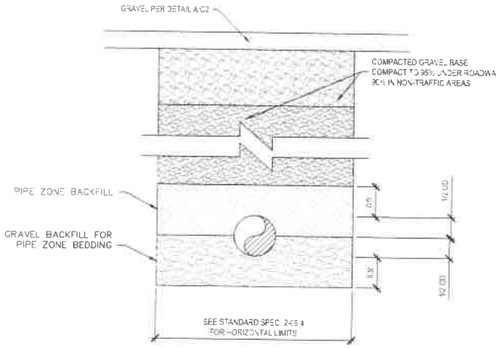
1. ALL CONSTRUCTION SHALL CONFORM WITH THESE PLANS AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION
2. CONTRACTOR SHALL NOTIFY UTILITY LOCATOR SERVICE AND ARRANGE FOR FIELD LOCATION AND MARKING OF ALL UNDERGROUND UTILITIES IN AFFECTED AREAS PRIOR TO EXCAVATION.
3. FINAL ELEVATIONS, GRADES AND ACTUAL PIPE LOCATIONS ARE TO BE DETERMINED BY OTHERS SUCH THAT THE FINAL ELEVATIONS AND DRAINAGE PATTERNS CONFORM WITH THE PLAN AND DETAILS HEREON. ANY CHANGES MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
4. EXISTING DETENTION/WETPOND TO BE REVISED TO MEET STORMWATER TREATMENT (WETLAND) REQUIREMENTS INCLUDING REGRADING AND REPLANTING. SEE NOTES BELOW PLANTING REQUIREMENTS AND SHEET C1 FOR ADDITIONAL DETAILS AND SECTIONS.
5. REVISED WETPOOLS TO BE VEGETATED WITH THE FOLLOWING PLANT SPECIES
   - SCIRPUS ACUTUS (HARDSTEM BULRUSH) 2 - 5' DEPTH
   - SCIRPUS MICROCARPUS (SMALL-FRUITED BULRUSH) 1' - 2.5' DEPTH
   - SPARGANIUM EMERSUM (BURREED) 1 - 3' DEPTH
   - SPARGANIUM EURYCARPUM (BURREED) 1 - 2' DEPTH
   - VERONICA SP. (MARSH SPEEDWELL) 0 - 1' DEPTH



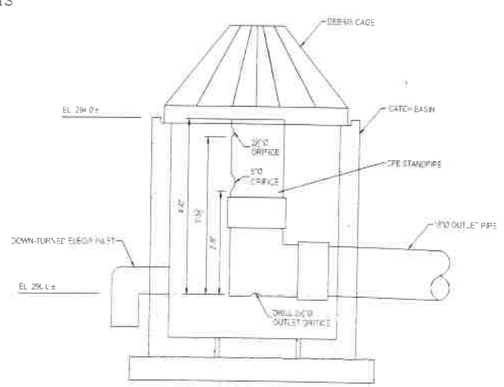
A / C2 TYPICAL GRAVEL SECTION
Scale: NTS



C / C2 NYLOPLAST DRAIN BASIN
Scale: N.T.S.

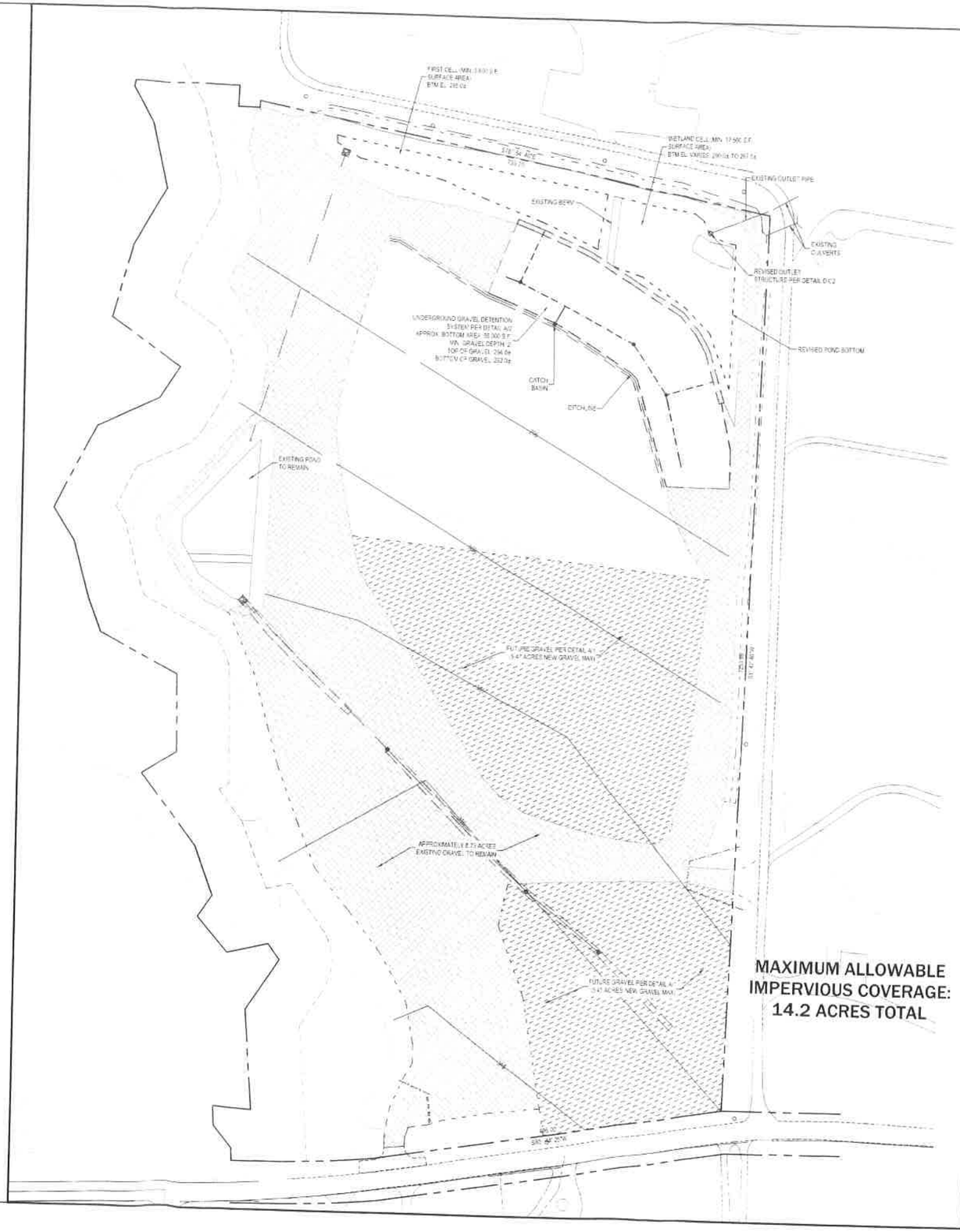


B / C2 TYPICAL TRENCHING DETAL
Scale: NTS



D / C2 OUTLET STRUCTURE REVISION
Scale: N.T.S.

SITE PLAN
Scale: 1" = 80'



ZENOVIC & ASSOCIATES
INCORPORATED
301 E. 6TH STREET, SUITE 1
PORT ANGELES, WA 98362
PHONE: (360) 417-0261
FAX: (360) 417-0634
EMAIL ZENOVIA@ZENOVIC.NET

REVISIONS:

DATE	MARK	NOTE

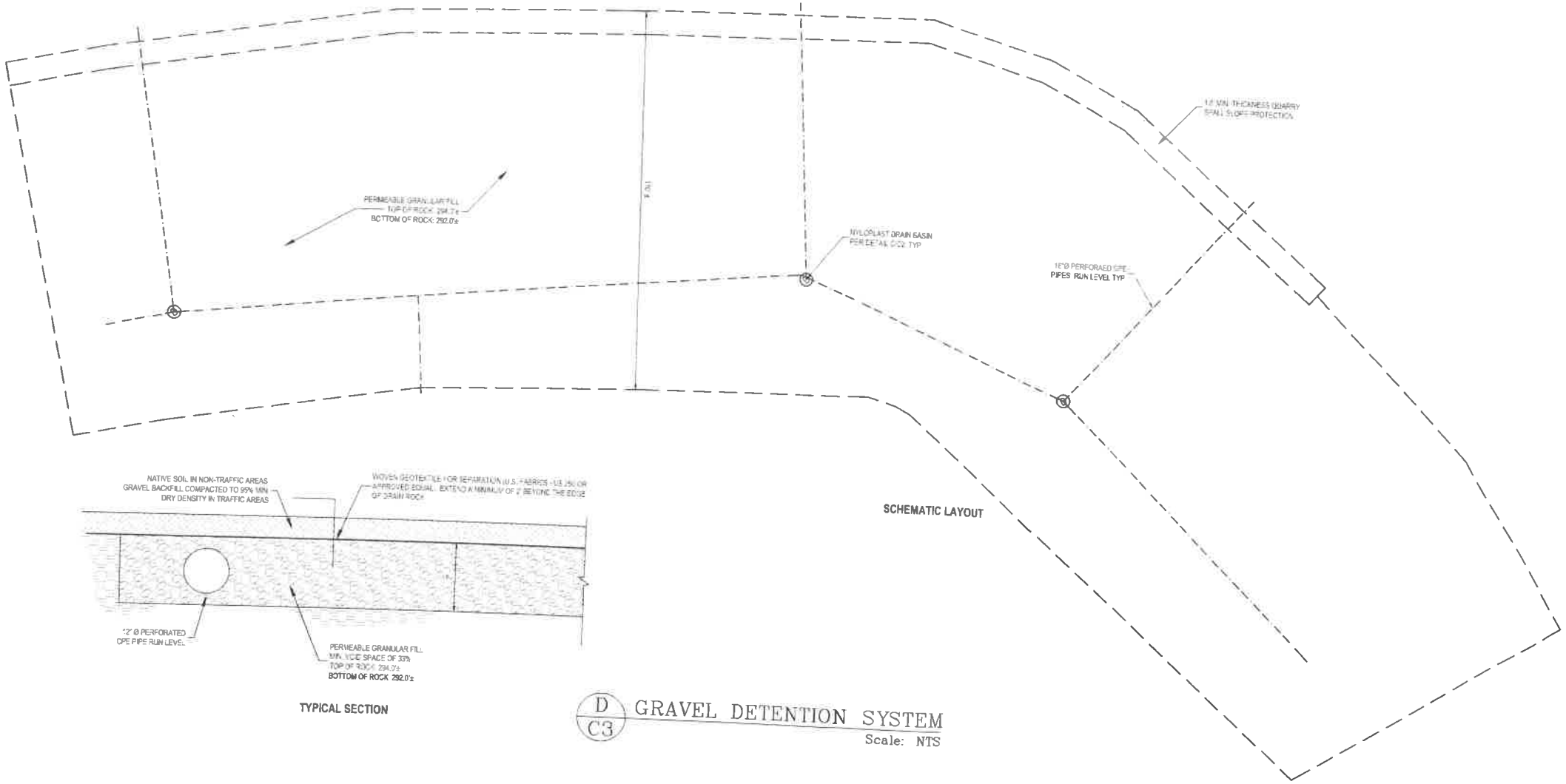
TITLE: STORM DRAINAGE PLAN FOR CRITCHFIELD PROPERTY DEVELOPMENT (CITY OF PORT ANGELES) WA PARCEL NO. 07-30-12-2-0015

AS-BUILT

CLIENT: DELHUR INDUSTRIES, INC
P.O. BOX 1116
Port Angeles, WA 98362

SCALE: 1" = 80'
FILE: 19041-AB
JOB NO: 19041
DATE: February 28, 2020
SET: AS-BUILT

SHEET 1



SCHEMATIC LAYOUT

TYPICAL SECTION

D/C3 GRAVEL DETENTION SYSTEM
Scale: NTS

ZENOVIC & ASSOCIATES
INCORPORATED
301 E. 6TH STREET, SUITE 1
PORT ANGELES, WA 98362
PHONE: (360) 417-0501
FAX: (360) 417-0514
EMAIL: ZENOVIC@ZENOVIC.NET

REVISIONS:

DATE	MARK	NOTE

TITLE: STORM DRAINAGE PLAN FOR CRITICHELD PROPERTY DEVELOPMENT, CITY OF PORT ANGELES WA - PARCEL NO. 07-30-12-0076

STORMWATER DETAILS

CLIENT: DELHUR INDUSTRIES, INC
P.O. BOX 1116
Port Angeles, WA 98362

SCALE: NTS
FILE: 19041-AB
JOB NO: 19041
DATE: December 20, 2023
SET: AS-BUILT

12/20/2023

SHEET 2

APPLICATION / STRUCTR	PROPERTY ADDRESS / PERMIT		ASSESSOR PARCEL NUMBER / INSPECTION	ALTERNATE ID / RESULT DATE/STATUS	INSPECTOR
20 00000312	3610 S CRITCHFIELD RD		07-30-12-1-2-0075-0000-	073012120075	
000 000	CG 00 CLEAR & GRADE	REQ COMM:	ER99 0001 STORMWATER FINAL	9/27/24 APPROVED	SMA
		RES COMM:			
000 000	CG 00 CLEAR & GRADE	REQ COMM:	PW99 0001 PUBLIC WORKS FINAL	9/27/24 APPROVED	SMA
		RES COMM:			

Docusign Envelope ID: E9732BC0-AC00-4DFF-B339-4078C3405E9B

CITY OF PORT ANGELES
PUBLIC WORKS & UTILITIES
321 E. 5TH STREET, PORT ANGELES, WA 98362

Application Number . . . . . 20-00000312 Date 9/25/24
Application pin number . . . 099448
Property Address . . . . . 3610 S CRITCHFIELD RD
ASSESSOR PARCEL NUMBER: 07-30-12-1-2-0075-0000-
Application type description CLEARING & GRADING
Subdivision Name . . . . . .
Property Use . . . . . INDUSTRIAL HEAVY
Property Zoning . . . . . INDUSTRIAL HEAVY
Application valuation 0

Application desc
Stormwater Detention Improvements

Owner	Contractor
DELHUR INDUSTRIES INC	OWNER
PO BOX 5270	
WEST RICHLAND WA 99353	

Permit . . . . . CLEAR & GRADE
Additional desc . . C&G#20-0312
Permit Fee . . . . 1123.91 Plan Check Fee . . .00
Issue Date . . . . 9/25/24 Valuation 0
Expiration Date . . 9/25/25

Qty	Unit Charge	Per		Extension
1.00	180.9100	ECH	CLEARING & DRAINAGE 0-1 ACRE	180.91
1.00	213.0000	ECH	GRADING & FILL 0-250 CY	213.00
1.00	55.0000	HR	PW INSPECTION	55.00
5.00	135.0000	EA	SAN SEW / STM CON OTHER	675.00

Permit . . . . . PW ENGINEERING REVIEW STORM
Additional desc . .
Permit Fee . . . . 1455.00 Plan Check Fee . . .00
Issue Date . . . . 9/25/24 Valuation 0
Expiration Date . . 3/24/25

Qty	Unit Charge	Per		Extension
			BASE FEE	300.00
15.00	55.0000	HR	PW INSPECTION	825.00
1.00	330.0000	ECH	PW ENG REVIEW STORM BASE	330.00

Special Notes and Comments
-Public Works Electrical Engineering Comments-
Maintain safe working distances from overhead energized utility lines per WAC 296-155-53408. Contact the City of Port Angeles electrical engineering office at 360-461-6062 for coordination if scope of work will require cranes or like equipment to operate within 20 feet of utility lines.

-Public Works & Utilities Engineering General Comments-
Prior to start of work, surety for 50% of estimated value of work is required Per PAMC 15.28.140, an Engineers estimate

REPORT SALES TAX
on your state excise tax form to the City of Port Angeles
(Location Code 0502)

The issuance of a permit does not authorize any construction or other activity in violation of, nor does the issuance supersede or cancel the provisions of, any state or local law regulating construction or the performance of construction. The permit does not authorize any construction or other activity in violation of the Governor's COVID-19 Emergency Proclamations and related Guidance Memoranda. Separate Permits are required for electrical work, SEPA, Environmentally Sensitive Area, utilities, and private/public Improvements. This permit becomes null and void if the work or construction authorized is not commenced, or if required inspections have not been requested, with 180 days from the last inspection. During the Governor's COVID-19 Emergency Proclamation the City, in its sole discretion, may allow for or extend the life of building permits beyond the typical 180-day lifespan. All work done pursuant to this permit must comply with all applicable local, state, and federal laws and regulations governing the work even if such local, state, or federal laws or regulation is not expressly specified herein

Docusign Envelope ID: E9732BC0-AC66-4DFF-B339-4078C3405E9B

CITY OF PORT ANGELES
PUBLIC WORKS & UTILITIES
321 E. 5TH STREET, PORT ANGELES, WA 98362

Application Number 20-00000312
Application pin number . . . 099448
Date 9/25/24

Special Notes and Comments
must be submitted to PWKS Engineering for approval at publicworksinbox@cityofpa.us.

Per PAMC 15.28.140, The City Engineer may require the applicant to furnish security in the form of a bond, cash escrow account, an irrevocable letter of credit, or other security which may be acceptable to the City in its sole discretion, in an amount determined by the City Engineer to be sufficient to reimburse the City if it should become necessary for the City to enter the property to correct hazardous conditions relating to soil stability, erosion, or environmental damage caused by failure to complete the work or improper action.

Per USSG 6.10.3, The permittee may secure the services of an engineer, subject to the approval of the City Engineer, to inspect the construction of the facilities and provide the City with a fully documented certification that all construction is in accordance with the provisions of the approved plan, applicable rules, regulations, permit conditions and specifications. If inspection certification is provided to the City, then the normal inspections performed by the City for the permit may be waived. In these cases the City shall be notified at the required inspection points and may make spot inspections. The engineer shall use the Engineers Construction Inspection Report form attached for certification of the construction or other similar form approved by the City Engineer.

Required Public Works Final Inspection: A PWKS final inspection and sign off is required prior to permit close-out. All temporary erosion and sediment controls to be removed and all disturbed soils are required to be permanently stabilized prior to final inspection.

PWKS ENGINEERING INSPECTION REQUEST PROCEDURE
Notify Public Works Engineering in advance of start of work by calling the Public Works inspection request line at (360)417-4831. An inspection request must be made no later than noon of the business day preceding an on-site inspection of permitted work.

-Public Works Engineering Stormwater Comments-
1. Per MR#5, BMP T5.13 Post-Const. Soil Quality and Depth applies to all soils disturbed as part of this project (under the current and previous C&G permits) that are not covered by new hard surfaces, including, but not limited to: perimeter berms, wetpond sidewalls, pond bottoms, and pond cell-dividing berms. Final site stabilization and wetpond/detention pond/wetland planting plans shall be

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on your state excise tax form to the City of Port Angeles
(Location Code 0502)

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Docusign Envelope ID: E9732BC0-AC60-4DFF-B339-4078C3405E9B

CITY OF PORT ANGELES
PUBLIC WORKS & UTILITIES
321 E. 5TH STREET, PORT ANGELES, WA 98362

Application Number . . . . . 20-00000312 Date 9/25/24
Application pin number . . . 099448

Special Notes and Comments
preceded with soil amendment meeting SWMMWW minimum requirements.
2. If good vegetative cover is not established on berms, erosion control measures or supplements (i.e. nets, blankets, etc.) shall be required to prevent erosion.
3. An emergency overflow spillway consistent with dimensions and requirements in the SWMMWW is required for ponds.
4. If the first cell cannot be maintained from the top of the pond, an access road shall be installed according to requirements for detention ponds.
5. Prior to land disturbing activities occurring, the CESCL shall submit a copy of their active certification to the City.
6. Pond sidewalls shall not exceed the maximum slope detailed on the plans, 3H:1V, without prior approval and appropriate responsive measures being activated such as installation of a fence or other applicable measures.
7. Stormwater treatment wetlands rely on aquatic vegetation and the associated microbiological community to facilitate pollutant removal; therefore, it is critical for healthy emergent aquatic vegetation to be established and maintained throughout the year. An adequate water supply must be available through most of the year and the applicant should be prepared to supplement water in the summer months, if necessary, especially during the first three years. Additional to watering, the applicant may be required to provide physical support, mulching, weeding, and replanting during the first three years. The wetland cell planting plan shall be consistent with Table 10.1 of the SWMMWW or determined by a wetland scientist.
8. Early submittal of the draft O&M manual and agreement for City review and comment is strongly encouraged.

-Department of Community & Economic Development Comments-
Any work inconsistent with the scope of activities reviewed for the SEPA DNS #1382 issued on October 24, 2016 will require submission of a revised SEPA checklist.

Fee summary	Charged	Paid	Credited	Due
Permit Fee Total	2578.91	2578.91	.00	.00
Plan Check Total	.00	.00	.00	.00
Grand Total	2578.91	2578.91	.00	.00

Applicant Signature DocuSigned by: John Doyle D31806F82EA34D1 Date: 9/27/2024

REPORT SALES TAX
on your state excise tax form to the City of Port Angeles
(Location Code 0502)

The issuance of a permit does not authorize any construction or other activity in violation of, nor does the issuance supersede or cancel the provisions of, any state or local law regulating construction or the performance of construction. The permit does not authorize any construction or other activity in violation of the Governor's COVID-19 Emergency Proclamations and related Guidance Memoranda. Separate Permits are required for electrical work, SEPA, Environmentally Sensitive Area, utilities, and private/public Improvements. This permit becomes null and void if the work or construction authorized is not commenced, or if required inspections have not been requested, with 180 days from the last inspection. During the Governor's COVID-19 Emergency Proclamation the City, in its sole discretion, may allow for or extend the life of building permits beyond the typical 180-day lifespan. All work done pursuant to this permit must comply with all applicable local, state, and federal laws and regulations governing the work even if such local, state, or federal laws or regulation is not expressly specified herein

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PERMIT INSPECTION RECORD

Notify Public Works Engineering in advance of start of work **you must request your inspection by noon the business day before the date of inspection. Go to the City's website, cityofpa.us**

IT IS UNLAWFUL TO COVER, INSULATE OR CONCEAL ANY WORK BEFORE INSPECTED AND ACCEPTED. POST PERMIT IN CONSPICUOUS LOCATION. KEEP PERMIT AND APPROVED PLANS AT JOB SITE.

Inspection Type	Date	Accepted		Comments
		YES	NO	
PUBLIC WORKS AND UTILITIES (ENGINEERING DIVISION)				
WATERLINE / METER				
SEWER CONNECTION				
SEWER REPAIR				
PARKING				
SIDEWALK				
CURB & GUTTER				
DRIVEWAY				
EROSION CONTROL:				
PRE-CONSTRUCTION				
DURING CONSTRUCTION				
DURING CONSTRUCTION				
DURING CONSTRUCTION				
DURING CONSTRUCTION				
POST CONSTRUCTION				
PERMANENT STORMWATER SYSTEM:				
ROUGH-IN				
STORMWATER CONNECTION				
FINAL				
STORMWATER FACILITIES				
ROUGH-IN				
FINAL				

FINAL INSPECTIONS REQUIRED PRIOR TO OCCUPANCY/USE

RESIDENTIAL		**DATE**	**YES**	**NO**	**COMMENTS**
PWKS ENGINEERING	360 417-4831				
FIRE	360 417-4653				
PLANNING DEPT.	360 417-4750				
BUILDING DEPT.	360 417 4815				
COMMERCIAL					**COMMENTS**
PWKS ENGINEERING	360 417-4831				
FIRE	360 417-4653				
PLANNING DEPT.	360 417-4750				
BUILDING DEPT.	360 417 4815				

Keri Lee Rhodefer <krhodefer@delhur.com>

wd: Critchfield Industrial Site - Final and O&M Inspection

1 message

John Doyle <jdoyle@delhur.com>
To: Keri Lee Rhodefer <krhodefer@delhur.com>

Wed, Dec 20, 2023 at 3:22 PM

Keri
Can you print these drawings out on 11 x 17 for me make three copies
Sent from my iPhone

Begin forwarded message:

From: Seth Rodman <seth@zenovic.net>
Date: December 20, 2023 at 2:35:29 PM PST
To: John Doyle <jdoyle@delhur.com>
Subject: RE: Critchfield Industrial Site - Final and O&M Inspection

John,

Attached is the updated as-built and drainage calculations for the as-built condition of the site. As noted, the maximum allowable impervious site coverage is 14.2 acres for the current system. Also, as I believe we discussed, there are still some plantings to be completed in the wetland cell of the stormwater pond, but obviously that will have to wait until it dries up a bit.

Thanks,

Seth Rodman, P.E.

Zenovic & Associates, Inc.

301 East 6th Street

Port Angeles, WA 98363

PH: (360) 417-0501

Fax: (360) 417-0514

From: John Doyle <jdoyle@delhur.com>
Sent: Monday, October 16, 2023 1:42 PM

To: Seth Rodman <Seth@zenovic.net>
Subject: Fwd: Critchfield Industrial Site - Final and O&M Inspection

Seth,

below is an email chain between my inhouse stormwater manager and the city. at the end of the email you will see the grading plan you designed with some notes from the city. I look forward to hearing from you soon in regards to this matter so we can finalize it.

Thank you

John

John M. Doyle

DelHur Industries, Inc.

1933 Jadwin Ave. ste. 110

Richland, Wa. 99354

509.727-7955 Cell

360.457-1133 ext. 12 Port Angeles Office

509.371.0678 Richland Office

541.567.8693 Hermiston Office

jdoyle@delhur.com

www.delhur.com

PLEASE NOTE: This message, including any attachments, may include confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

---------- Forwarded message ---------
From: **Alan Escuredo** <aescuredo@delhur.com>
Date: Mon, Oct 16, 2023 at 11:12 AM
Subject: Fwd: Critchfield Industrial Site - Final and O&M Inspection
To: John Doyle <jdoyle@delhur.com>

---------- Forwarded message ---------
From: **Matthew Moore** <Mmoore@cityofpa.us>
Date: Fri, Oct 13, 2023 at 4:42 PM
Subject: RE: Critchfield Industrial Site - Final and O&M Inspection
To: Alan Escuredo <aescuredo@delhur.com>

Hi Alan,

Thanks again for meeting me on site.

Please see the attached report for the annual O&M inspection of the stormwater facilities for the Critchfield Industrial Site. The good news is that the bulk of the infrastructure is holding up well despite a lack of intervention, but as you know, there are still a couple outstanding issues – some of which would have been addressed at a final inspection, which is still outstanding.

Regarding Delhur's failure to close out the permit, we have had an internal discussion about this, and it seems that our only course of action is to issue a notice of violation. I would prefer not to do this as it is a time intensive process. Please have a representative from Delhur reach out about finalizing their permit.

Finally, as I mentioned during the inspection, this is the first year that the stormwater program charge is in effect for the operation and maintenance program for private stormwater facilities, per PAMC 13.63.095. At the end of this month the entity named on the O&M agreement will receive a bill for $225.00. As I have explained, the inspection frequency can be reduced for given site where maintenance records justify; In this case, it is difficult to achieve that without a finalized O&M Manual, but I have attached an O&M maintenance log and you could always use the SWMMWW BMP Maintenance Tables to address the site specific needs to satisfy that requirement. Next year we should have a web portal for this, which should make compliance simple and save everyone time and money.

Thank you,

Matthew Moore

Engineer I | City of Port Angeles

360.417.4820 | Mmoore@cityofpa.us

321 E. 5th Street, Port Angeles, WA 98362

From: Alan Escuredo <aescuredo@delhur.com>
Sent: Tuesday, September 12, 2023 9:10 AM
To: Matthew Moore <Mmoore@cityofpa.us>
Subject: Re: Critchfield Industrial Site - Final and O&M Inspection

[CAUTION - EXTERNAL EMAIL]

Hi Matthew,

9/25 at 9am should work out.

The site has remained inactive so far.

Thank you,

Alan

On Thu, Aug 31, 2023 at 4:10 PM Matthew Moore <Mmoore@cityofpa.us> wrote:

> Hi Alan,
>
> I'm looking to schedule the annual Operations & Maintenance inspection for the Critchfield Industrial Site.

Please select from the following day/times that would work for you to join me onsite:

- Mon. 9/11 – anytime after 9 am.
- Mon. 9/18 – anytime after 9 am.
- Mon. 9/25 – anytime after 9 am.

Please allow 1 hour for the inspection and be sure to bring any special tools required for access of the facilities. Also, please send me a copy of your Inspection/Maint./Repair Log Sheet for the previous year.

Thank you,

Matthew Moore

Engineer I | City of Port Angeles

360.417.4820 | Mmoore@cityofpa.us

321 E. 5th Street, Port Angeles, WA 98362

From: Matthew Moore
Sent: Monday, July 10, 2023 2:13 PM
To: 'aescuredo@delhur.com' <aescuredo@delhur.com>
Subject: FW: Critchfield Industrial Site - Final and O&M Inspection

Hi Alan,

This is a little strange, because I thought I had sent you a follow up after last year's inspection of the Critchfield Industrial Site but just found that my email was never sent. For your records, the 2022 O&M Inspection Report is accessible here: https://acrobat.adobe.com/link/review?uri=urn:aaid:scds:US:35094ec4-13c2-40b6-942e-12b91381a412

I found out about my failed email because there was a recent inquiry made about this site regarding past Clearing & Grading permits, one of which (C&G 20-0312) has never been finalized. I shared your info with Zach Trevino from Community & Economic Development, who may reach out to you regarding officially closing out the Clearing & Grading Permit; If there is a better contact for the site, let me know.

Regarding Operations and Maintenance inspections, if there is a good date for you to schedule the 2023 O&M inspection, I can be available as soon as August.

Best,

Matthew Moore

Engineer I | City of Port Angeles

360.417.4820 | Mmoore@cityofpa.us

321 E. 5th Street, Port Angeles, WA 98362

From: Alan Escuredo <aescuredo@delhur.com>
Sent: Thursday, October 6, 2022 8:24 AM
To: Matthew Moore <Mmoore@cityofpa.us>
Cc: Vince McIntyre <Vmcintyr@cityofpa.us>
Subject: Re: Critchfield Industrial Site - Final and O&M Inspection

Hi Matthew,

The 17th at 9am looks open for me as of now. The site has remained inactive since the last inspection.

Thanks,

Alan.

On Wed, Oct 5, 2022 at 4:44 PM Matthew Moore <Mmoore@cityofpa.us> wrote:

> Hi Alan,
>
> Regarding the Critchfield Industrial Site, I'd like to set up a time with you to schedule for two back-to-back inspections: the final and Operations and Maintenance (O&M).
>
> Please select from the following day/times that would work for you to join me and Vince McIntyre onsite:
>
> - Mon. 10/17 – anytime after 9 am.
> - Wed. 10/19 – anytime after 9 am.
> - Other you propose.
>
> Please allow 2 hours for the inspection and be sure to bring any special tools required for access of the facilities. Also, please send me a copy of your Inspection/Maint./Repair Log Sheet for the previous year.
>
> Thanks,
>
> **Matthew Moore**
>
> Engineer I | City of Port Angeles
>
> 360.417.4820 | Mmoore@cityofpa.us
>
> 321 E. 5th Street, Port Angeles, WA 98362
>
> <image002.jpg>

From: Alan Escuredo <aescuredo@delhur.com>
Sent: Thursday, February 10, 2022 12:26 PM
To: Vince McIntyre <Vmcintyr@cityofpa.us>
Subject: Critchfield Nov21 Report

Hello Vince,

I wanted to touch base and see if there are any news on the inspection we held at our Critchfield property last November.

Additionally, I would appreciate if you could put me in touch with the staff that can handle our construction permit closure, to identify pending requirements.

Thank you,

--

Alan Escuredo

Quality Control Engineer

aescuredo@delhur.com

(360) 775-9422

NOTICE: This email and any attachments may be subject to disclosure as a public record under the Public Records Act, RCW Chapter 42.56

--

Alan Escuredo

Quality Control Engineer

aescuredo@delhur.com

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4 attachments

image001.jpg
5K

image002.jpg
4K

19041-As-Built 12-20-2023.pdf
1005K

As-Built 10-20-2023.pdf
2655K

WWHM2012

PROJECT REPORT

General Model Information

Project Name:	As-Built 10-20-2023
Site Name:	
Site Address:	
City:	
Report Date:	12/20/2023
Gage:	Port Angelis
Data Start:	1948/10/01
Data End:	2009/09/30
Timestep:	15 Minute
Precip Scale:	0.000 (adjusted)
Version Date:	2021/08/18
Version:	4.2.18

POC Thresholds

Low Flow Threshold for POC1:	50 Percent of the 2 Year
High Flow Threshold for POC1:	50 Year

Landuse Basin Data

Predeveloped Land Use

Basin 1

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
C, Forest, Mod	21.8
Pervious Total	21.8

Impervious Land Use	acre
Impervious Total	0
Basin Total	21.8

Element Flows To:

Surface	Interflow	Groundwater

Mitigated Land Use

Basin 2

Bypass:	No
GroundWater:	No

Pervious Land Use	acre
C, Pasture, Mod	6
Pervious Total	6

Impervious Land Use	acre
PARKING FLAT	10
POND	1
Impervious Total	11
Basin Total	17

Element Flows To:

Surface	Interflow	Groundwater
Pond 2	Pond 2	

Basin 1

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
Pervious Total	0
Impervious Land Use	acre
PARKING FLAT	4.2
POND	0.6
Impervious Total	4.8
Basin Total	4.8

Element Flows To:

Surface	Interflow	Groundwater
Pond 1	Pond 1	

Routing Elements
Predeveloped Routing

Mitigated Routing

Trapezoidal Pond 1

Bottom Length:	536.00 ft.	
Bottom Width:	87.00 ft.	
Depth:	5 ft.	
Volume at riser head:	5.0656 acre-feet.	
Side slope 1:	3 To 1	
Side slope 2:	3 To 1	
Side slope 3:	3 To 1	
Side slope 4:	3 To 1	
Discharge Structure		
Riser Height:	4 ft.	
Riser Diameter:	18 in.	
Orifice 1 Diameter:	2.43 in.	Elevation:0 ft.
Orifice 2 Diameter:	5 in.	Elevation:2.75 ft.
Orifice 3 Diameter:	2.5 in.	Elevation:3.458 ft.
Element Flows To:		
Outlet 1	Outlet 2	

Pond Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	1.070	0.000	0.000	0.000
0.0556	1.075	0.059	0.037	0.000
0.1111	1.080	0.119	0.053	0.000
0.1667	1.084	0.179	0.065	0.000
0.2222	1.089	0.240	0.075	0.000
0.2778	1.094	0.300	0.084	0.000
0.3333	1.099	0.361	0.092	0.000
0.3889	1.104	0.422	0.099	0.000
0.4444	1.108	0.484	0.106	0.000
0.5000	1.113	0.546	0.113	0.000
0.5556	1.118	0.608	0.119	0.000
0.6111	1.123	0.670	0.125	0.000
0.6667	1.128	0.732	0.130	0.000
0.7222	1.132	0.795	0.136	0.000
0.7778	1.137	0.858	0.141	0.000
0.8333	1.142	0.922	0.146	0.000
0.8889	1.147	0.985	0.151	0.000
0.9444	1.152	1.049	0.155	0.000
1.0000	1.157	1.113	0.160	0.000
1.0556	1.162	1.178	0.164	0.000
1.1111	1.166	1.242	0.168	0.000
1.1667	1.171	1.307	0.173	0.000
1.2222	1.176	1.373	0.177	0.000
1.2778	1.181	1.438	0.181	0.000
1.3333	1.186	1.504	0.185	0.000
1.3889	1.191	1.570	0.188	0.000
1.4444	1.196	1.636	0.192	0.000
1.5000	1.201	1.703	0.196	0.000
1.5556	1.206	1.770	0.199	0.000
1.6111	1.210	1.837	0.203	0.000
1.6667	1.215	1.904	0.206	0.000
1.7222	1.220	1.972	0.210	0.000
1.7778	1.225	2.040	0.213	0.000

1.8333	1.230	2.108	0.217	0.000
1.8889	1.235	2.177	0.220	0.000
1.9444	1.240	2.245	0.223	0.000
2.0000	1.245	2.314	0.226	0.000
2.0556	1.250	2.384	0.229	0.000
2.1111	1.255	2.453	0.232	0.000
2.1667	1.260	2.523	0.235	0.000
2.2222	1.265	2.593	0.238	0.000
2.2778	1.270	2.664	0.241	0.000
2.3333	1.275	2.735	0.244	0.000
2.3889	1.280	2.806	0.247	0.000
2.4444	1.285	2.877	0.250	0.000
2.5000	1.290	2.948	0.253	0.000
2.5556	1.295	3.020	0.256	0.000
2.6111	1.300	3.092	0.258	0.000
2.6667	1.305	3.165	0.261	0.000
2.7222	1.310	3.237	0.264	0.000
2.7778	1.315	3.310	0.380	0.000
2.8333	1.320	3.383	0.465	0.000
2.8889	1.325	3.457	0.525	0.000
2.9444	1.330	3.531	0.574	0.000
3.0000	1.335	3.605	0.616	0.000
3.0556	1.340	3.679	0.655	0.000
3.1111	1.345	3.754	0.690	0.000
3.1667	1.350	3.829	0.723	0.000
3.2222	1.355	3.904	0.753	0.000
3.2778	1.360	3.979	0.783	0.000
3.3333	1.365	4.055	0.810	0.000
3.3889	1.370	4.131	0.837	0.000
3.4444	1.375	4.207	0.862	0.000
3.5000	1.381	4.284	0.922	0.000
3.5556	1.386	4.361	0.964	0.000
3.6111	1.391	4.438	1.000	0.000
3.6667	1.396	4.515	1.033	0.000
3.7222	1.401	4.593	1.065	0.000
3.7778	1.406	4.671	1.095	0.000
3.8333	1.411	4.749	1.123	0.000
3.8889	1.416	4.828	1.151	0.000
3.9444	1.421	4.907	1.178	0.000
4.0000	1.427	4.986	1.203	0.000
4.0556	1.432	5.065	1.437	0.000
4.1111	1.437	5.145	1.841	0.000
4.1667	1.442	5.225	2.351	0.000
4.2222	1.447	5.305	2.937	0.000
4.2778	1.452	5.386	3.572	0.000
4.3333	1.457	5.467	4.228	0.000
4.3889	1.463	5.548	4.877	0.000
4.4444	1.468	5.629	5.493	0.000
4.5000	1.473	5.711	6.049	0.000
4.5556	1.478	5.793	6.528	0.000
4.6111	1.483	5.875	6.920	0.000
4.6667	1.489	5.958	7.226	0.000
4.7222	1.494	6.041	7.466	0.000
4.7778	1.499	6.124	7.761	0.000
4.8333	1.504	6.207	7.999	0.000
4.8889	1.509	6.291	8.230	0.000
4.9444	1.515	6.375	8.455	0.000
5.0000	1.520	6.459	8.673	0.000

5.0556	1.525	6.544	8.885	0.000

Gravel Trench Bed 1

Bottom Length:	500.00 ft.
Bottom Width:	100.00 ft.
Trench bottom slope 1:	0.01 To 1
Trench Left side slope 0:	0.01 To 1
Trench right side slope 2:	0.01 To 1
Material thickness of first layer:	2
Pour Space of material for first layer:	0.33333
Material thickness of second layer:	0
Pour Space of material for second layer:	0
Material thickness of third layer:	0
Pour Space of material for third layer:	0

Discharge Structure

Riser Height:	2 ft.
Riser Diameter:	18 in.

Element Flows To:

Outlet 1 Outlet 2

Gravel Trench Bed Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	1.147	0.000	0.000	0.000
0.0333	1.147	0.012	0.000	0.000
0.0667	1.147	0.025	0.000	0.000
0.1000	1.147	0.038	0.000	0.000
0.1333	1.147	0.051	0.000	0.000
0.1667	1.147	0.063	0.000	0.000
0.2000	1.147	0.076	0.000	0.000
0.2333	1.147	0.089	0.000	0.000
0.2667	1.147	0.102	0.000	0.000
0.3000	1.147	0.114	0.000	0.000
0.3333	1.147	0.127	0.000	0.000
0.3667	1.147	0.140	0.000	0.000
0.4000	1.148	0.153	0.000	0.000
0.4333	1.148	0.165	0.000	0.000
0.4667	1.148	0.178	0.000	0.000
0.5000	1.148	0.191	0.000	0.000
0.5333	1.148	0.204	0.000	0.000
0.5667	1.148	0.216	0.000	0.000
0.6000	1.148	0.229	0.000	0.000
0.6333	1.148	0.242	0.000	0.000
0.6667	1.148	0.255	0.000	0.000
0.7000	1.148	0.267	0.000	0.000
0.7333	1.148	0.280	0.000	0.000
0.7667	1.148	0.293	0.000	0.000
0.8000	1.148	0.306	0.000	0.000
0.8333	1.148	0.318	0.000	0.000
0.8667	1.148	0.331	0.000	0.000
0.9000	1.148	0.344	0.000	0.000
0.9333	1.148	0.357	0.000	0.000
0.9667	1.148	0.369	0.000	0.000
1.0000	1.148	0.382	0.000	0.000
1.0333	1.148	0.395	0.000	0.000
1.0667	1.148	0.408	0.000	0.000
1.1000	1.148	0.420	0.000	0.000
1.1333	1.148	0.433	0.000	0.000

1.1667	1.148	0.446	0.000	0.000
1.2000	1.148	0.459	0.000	0.000
1.2333	1.148	0.472	0.000	0.000
1.2667	1.148	0.484	0.000	0.000
1.3000	1.148	0.497	0.000	0.000
1.3333	1.148	0.510	0.000	0.000
1.3667	1.148	0.523	0.000	0.000
1.4000	1.148	0.535	0.000	0.000
1.4333	1.148	0.548	0.000	0.000
1.4667	1.148	0.561	0.000	0.000
1.5000	1.148	0.574	0.000	0.000
1.5333	1.148	0.586	0.000	0.000
1.5667	1.148	0.599	0.000	0.000
1.6000	1.148	0.612	0.000	0.000
1.6333	1.148	0.625	0.000	0.000
1.6667	1.148	0.637	0.000	0.000
1.7000	1.148	0.650	0.000	0.000
1.7333	1.148	0.663	0.000	0.000
1.7667	1.148	0.676	0.000	0.000
1.8000	1.148	0.688	0.000	0.000
1.8333	1.148	0.701	0.000	0.000
1.8667	1.148	0.714	0.000	0.000
1.9000	1.148	0.727	0.000	0.000
1.9333	1.148	0.739	0.000	0.000
1.9667	1.148	0.752	0.000	0.000
2.0000	1.148	0.790	0.000	0.000
2.0333	1.148	0.829	0.096	0.000
2.0667	1.148	0.867	0.273	0.000
2.1000	1.148	0.905	0.502	0.000
2.1333	1.148	0.944	0.771	0.000
2.1667	1.148	0.982	1.074	0.000
2.2000	1.148	1.020	1.404	0.000
2.2333	1.148	1.058	1.756	0.000
2.2667	1.148	1.097	2.123	0.000
2.3000	1.148	1.135	2.501	0.000
2.3333	1.148	1.173	2.882	0.000
2.3667	1.148	1.212	3.261	0.000
2.4000	1.148	1.250	3.632	0.000
2.4333	1.148	1.288	3.988	0.000
2.4667	1.148	1.326	4.326	0.000
2.5000	1.148	1.365	4.639	0.000
2.5333	1.148	1.403	4.924	0.000
2.5667	1.148	1.441	5.178	0.000
2.6000	1.148	1.480	5.401	0.000
2.6333	1.148	1.518	5.592	0.000
2.6667	1.148	1.556	5.754	0.000
2.7000	1.148	1.594	5.892	0.000
2.7333	1.148	1.633	6.014	0.000
2.7667	1.148	1.671	6.205	0.000
2.8000	1.148	1.709	6.338	0.000
2.8333	1.148	1.748	6.469	0.000
2.8667	1.148	1.786	6.597	0.000
2.9000	1.148	1.824	6.723	0.000
2.9333	1.148	1.862	6.846	0.000
2.9667	1.148	1.901	6.967	0.000
3.0000	1.148	1.939	7.086	0.000

Pond 2

Depth: 5 ft.
Discharge Structure: 1
Riser Height: 4 ft.
Riser Diameter: 18 in.
Orifice 1 Diameter: 2.4 in. Elevation:0 ft.
Orifice 2 Diameter: 5 in. Elevation:2.75 ft.
Orifice 3 Diameter: 2.5 in. Elevation:3.45 ft.
Element Flows To:
Outlet 1 Outlet 2

SSD Table Hydraulic Table

Stage (feet)	Area (ac.)	Volume (ac-ft.)	Outlet Struct	NotUsed	NotUsed	NotUsed	NotUsed
0.000	1.071	0.000	0.000	0.000	0.000	0.000	0.000
0.056	1.075	0.060	0.037	0.000	0.000	0.000	0.000
0.111	1.080	0.119	0.052	0.000	0.000	0.000	0.000
0.167	1.085	0.180	0.064	0.000	0.000	0.000	0.000
0.222	1.090	0.240	0.074	0.000	0.000	0.000	0.000
0.278	1.094	0.301	0.082	0.000	0.000	0.000	0.000
0.333	1.099	0.362	0.090	0.000	0.000	0.000	0.000
0.389	1.104	0.423	0.097	0.000	0.000	0.000	0.000
0.444	1.109	0.484	0.104	0.000	0.000	0.000	0.000
0.500	1.114	0.546	0.111	0.000	0.000	0.000	0.000
0.556	1.118	0.608	0.117	0.000	0.000	0.000	0.000
0.611	1.123	0.670	0.122	0.000	0.000	0.000	0.000
0.667	1.128	0.733	0.128	0.000	0.000	0.000	0.000
0.722	1.133	0.796	0.133	0.000	0.000	0.000	0.000
0.778	1.138	0.859	0.138	0.000	0.000	0.000	0.000
0.833	1.143	0.922	0.143	0.000	0.000	0.000	0.000
0.889	1.147	0.986	0.147	0.000	0.000	0.000	0.000
0.944	1.152	1.050	0.152	0.000	0.000	0.000	0.000
1.000	1.157	1.114	0.156	0.000	0.000	0.000	0.000
1.056	1.162	1.178	0.161	0.000	0.000	0.000	0.000
1.111	1.167	1.243	0.165	0.000	0.000	0.000	0.000
1.167	1.172	1.308	0.169	0.000	0.000	0.000	0.000
1.222	1.177	1.373	0.173	0.000	0.000	0.000	0.000
1.278	1.182	1.439	0.177	0.000	0.000	0.000	0.000
1.333	1.186	1.504	0.180	0.000	0.000	0.000	0.000
1.389	1.191	1.570	0.184	0.000	0.000	0.000	0.000
1.444	1.196	1.637	0.188	0.000	0.000	0.000	0.000
1.500	1.201	1.703	0.191	0.000	0.000	0.000	0.000
1.556	1.206	1.770	0.195	0.000	0.000	0.000	0.000
1.611	1.211	1.837	0.198	0.000	0.000	0.000	0.000
1.667	1.216	1.905	0.202	0.000	0.000	0.000	0.000
1.722	1.221	1.972	0.205	0.000	0.000	0.000	0.000
1.778	1.226	2.040	0.208	0.000	0.000	0.000	0.000
1.833	1.231	2.109	0.212	0.000	0.000	0.000	0.000
1.889	1.236	2.177	0.215	0.000	0.000	0.000	0.000
1.944	1.241	2.246	0.218	0.000	0.000	0.000	0.000
2.000	2.393	2.315	0.221	0.000	0.000	0.000	0.000
2.056	2.398	2.405	0.224	0.000	0.000	0.000	0.000
2.111	2.403	2.496	0.227	0.000	0.000	0.000	0.000
2.167	2.408	2.587	0.230	0.000	0.000	0.000	0.000
2.222	2.413	2.679	0.233	0.000	0.000	0.000	0.000

2.278	2.418	2.770	0.236	0.000	0.000	0.000	0.000
2.333	2.423	2.862	0.239	0.000	0.000	0.000	0.000
2.389	2.428	2.955	0.242	0.000	0.000	0.000	0.000
2.444	2.433	3.047	0.244	0.000	0.000	0.000	0.000
2.500	2.438	3.140	0.247	0.000	0.000	0.000	0.000
2.556	2.443	3.233	0.250	0.000	0.000	0.000	0.000
2.611	2.448	3.326	0.253	0.000	0.000	0.000	0.000
2.667	2.453	3.420	0.255	0.000	0.000	0.000	0.000
2.722	2.458	3.514	0.258	0.000	0.000	0.000	0.000
2.778	2.463	3.608	0.374	0.000	0.000	0.000	0.000
2.833	2.468	3.702	0.459	0.000	0.000	0.000	0.000
2.889	2.473	3.797	0.519	0.000	0.000	0.000	0.000
2.944	2.478	3.892	0.567	0.000	0.000	0.000	0.000
3.000	2.483	3.987	0.610	0.000	0.000	0.000	0.000
3.056	2.488	4.083	0.649	0.000	0.000	0.000	0.000
3.111	2.493	4.179	0.683	0.000	0.000	0.000	0.000
3.167	2.498	4.275	0.716	0.000	0.000	0.000	0.000
3.222	2.503	4.371	0.747	0.000	0.000	0.000	0.000
3.278	2.509	4.468	0.776	0.000	0.000	0.000	0.000
3.333	2.514	4.565	0.803	0.000	0.000	0.000	0.000
3.389	2.519	4.662	0.830	0.000	0.000	0.000	0.000
3.444	2.524	4.760	0.855	0.000	0.000	0.000	0.000
3.500	2.529	4.858	0.918	0.000	0.000	0.000	0.000
3.556	2.534	4.956	0.959	0.000	0.000	0.000	0.000
3.611	2.539	5.054	0.995	0.000	0.000	0.000	0.000
3.667	2.544	5.153	1.028	0.000	0.000	0.000	0.000
3.722	2.549	5.252	1.059	0.000	0.000	0.000	0.000
3.778	2.554	5.351	1.089	0.000	0.000	0.000	0.000
3.833	2.559	5.450	1.117	0.000	0.000	0.000	0.000
3.889	2.565	5.550	1.145	0.000	0.000	0.000	0.000
3.944	2.570	5.650	1.171	0.000	0.000	0.000	0.000
4.000	2.575	5.751	1.197	0.000	0.000	0.000	0.000
4.056	2.580	5.851	1.433	0.000	0.000	0.000	0.000
4.111	2.585	5.952	1.833	0.000	0.000	0.000	0.000
4.167	2.590	6.054	2.348	0.000	0.000	0.000	0.000
4.222	2.595	6.155	2.928	0.000	0.000	0.000	0.000
4.278	2.601	6.257	3.568	0.000	0.000	0.000	0.000
4.333	2.606	6.359	4.217	0.000	0.000	0.000	0.000
4.389	2.611	6.461	4.872	0.000	0.000	0.000	0.000
4.444	2.616	6.564	5.481	0.000	0.000	0.000	0.000
4.500	2.621	6.667	6.042	0.000	0.000	0.000	0.000
4.556	2.626	6.770	6.524	0.000	0.000	0.000	0.000
4.611	2.632	6.874	6.912	0.000	0.000	0.000	0.000
4.667	2.637	6.977	7.220	0.000	0.000	0.000	0.000
4.722	2.642	7.082	7.458	0.000	0.000	0.000	0.000
4.778	2.647	7.186	7.754	0.000	0.000	0.000	0.000
4.833	2.652	7.291	7.990	0.000	0.000	0.000	0.000
4.889	2.658	7.396	8.223	0.000	0.000	0.000	0.000
4.944	2.663	7.501	8.445	0.000	0.000	0.000	0.000
5.000	2.668	7.606	8.665	0.000	0.000	0.000	0.000

Pond 1

Bottom Length:	160.00 ft.
Bottom Width:	90.00 ft.
Depth:	5 ft.
Volume at riser head:	1.6422 acre-feet.
Side slope 1:	3 To 1
Side slope 2:	3 To 1
Side slope 3:	3 To 1
Side slope 4:	3 To 1
Discharge Structure	
Riser Height:	4 ft.
Riser Diameter:	18 in.
Notch Type:	Rectangular
Notch Width:	0.015 ft.
Notch Height:	1.514 ft.
Orifice 1 Diameter:	0.875 in. Elevation:0 ft.
Element Flows To:	
Outlet 1	Outlet 2
Pond 2	

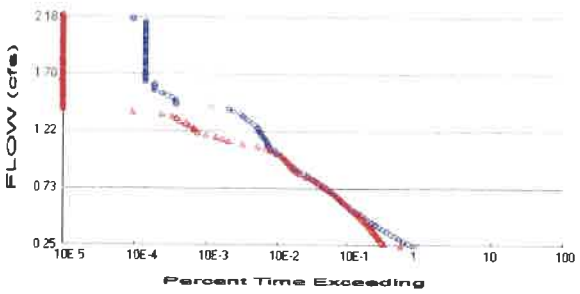
Pond Hydraulic Table

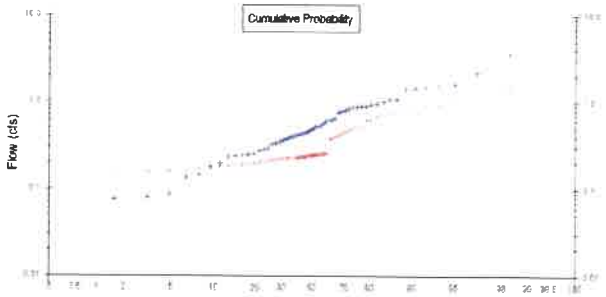
Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
0.0000	0.330	0.000	0.000	0.000
0.0556	0.332	0.018	0.004	0.000
0.1111	0.334	0.036	0.006	0.000
0.1667	0.336	0.055	0.008	0.000
0.2222	0.338	0.074	0.009	0.000
0.2778	0.340	0.093	0.011	0.000
0.3333	0.342	0.112	0.012	0.000
0.3889	0.344	0.131	0.013	0.000
0.4444	0.346	0.150	0.013	0.000
0.5000	0.348	0.169	0.014	0.000
0.5556	0.350	0.189	0.015	0.000
0.6111	0.351	0.208	0.016	0.000
0.6667	0.353	0.228	0.017	0.000
0.7222	0.355	0.247	0.017	0.000
0.7778	0.357	0.267	0.018	0.000
0.8333	0.359	0.287	0.019	0.000
0.8889	0.361	0.307	0.019	0.000
0.9444	0.363	0.327	0.020	0.000
1.0000	0.365	0.348	0.020	0.000
1.0556	0.367	0.368	0.021	0.000
1.1111	0.369	0.388	0.021	0.000
1.1667	0.371	0.409	0.022	0.000
1.2222	0.373	0.430	0.023	0.000
1.2778	0.375	0.451	0.023	0.000
1.3333	0.378	0.472	0.024	0.000
1.3889	0.380	0.493	0.024	0.000
1.4444	0.382	0.514	0.025	0.000
1.5000	0.384	0.535	0.025	0.000
1.5556	0.386	0.556	0.025	0.000
1.6111	0.388	0.578	0.026	0.000
1.6667	0.390	0.600	0.026	0.000
1.7222	0.392	0.621	0.027	0.000
1.7778	0.394	0.643	0.027	0.000
1.8333	0.396	0.665	0.028	0.000

1.8889	0.398	0.687	0.028	0.000
1.9444	0.400	0.709	0.029	0.000
2.0000	0.402	0.732	0.029	0.000
2.0556	0.404	0.754	0.029	0.000
2.1111	0.407	0.777	0.030	0.000
2.1667	0.409	0.799	0.030	0.000
2.2222	0.411	0.822	0.031	0.000
2.2778	0.413	0.845	0.031	0.000
2.3333	0.415	0.868	0.031	0.000
2.3889	0.417	0.891	0.032	0.000
2.4444	0.419	0.915	0.032	0.000
2.5000	0.421	0.938	0.032	0.000
2.5556	0.424	0.961	0.034	0.000
2.6111	0.426	0.985	0.035	0.000
2.6667	0.428	1.009	0.037	0.000
2.7222	0.430	1.033	0.039	0.000
2.7778	0.432	1.057	0.042	0.000
2.8333	0.434	1.081	0.044	0.000
2.8889	0.437	1.105	0.047	0.000
2.9444	0.439	1.129	0.049	0.000
3.0000	0.441	1.154	0.052	0.000
3.0556	0.443	1.178	0.055	0.000
3.1111	0.445	1.203	0.058	0.000
3.1667	0.447	1.228	0.061	0.000
3.2222	0.450	1.253	0.064	0.000
3.2778	0.452	1.278	0.067	0.000
3.3333	0.454	1.303	0.070	0.000
3.3889	0.456	1.328	0.073	0.000
3.4444	0.459	1.354	0.076	0.000
3.5000	0.461	1.379	0.079	0.000
3.5556	0.463	1.405	0.083	0.000
3.6111	0.465	1.431	0.087	0.000
3.6667	0.468	1.457	0.091	0.000
3.7222	0.470	1.483	0.095	0.000
3.7778	0.472	1.509	0.099	0.000
3.8333	0.474	1.535	0.103	0.000
3.8889	0.477	1.562	0.128	0.000
3.9444	0.479	1.588	0.134	0.000
4.0000	0.481	1.615	0.139	0.000
4.0556	0.483	1.642	0.348	0.000
4.1111	0.486	1.669	0.728	0.000
4.1667	0.488	1.696	1.215	0.000
4.2222	0.490	1.723	1.777	0.000
4.2778	0.493	1.750	2.390	0.000
4.3333	0.495	1.778	3.024	0.000
4.3889	0.497	1.805	3.651	0.000
4.4444	0.499	1.833	4.245	0.000
4.5000	0.502	1.861	4.781	0.000
4.5556	0.504	1.889	5.240	0.000
4.6111	0.506	1.917	5.611	0.000
4.6667	0.509	1.945	5.897	0.000
4.7222	0.511	1.974	6.118	0.000
4.7778	0.514	2.002	6.393	0.000
4.8333	0.516	2.031	6.613	0.000
4.8889	0.518	2.059	6.825	0.000
4.9444	0.521	2.088	7.031	0.000
5.0000	0.523	2.117	7.231	0.000
5.0556	0.525	2.146	7.425	0.000

Analysis Results

POC 1





\+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #1
Total Pervious Area: 21.8
Total Impervious Area: 0

Mitigated Landuse Totals for POC #1
Total Pervious Area: 6
Total Impervious Area: 15.8

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #1

Return Period	Flow(cfs)
2 year	0.504015
5 year	0.983277
10 year	1.341597
25 year	1.817209
50 year	2.178261
100 year	2.539412

Flow Frequency Return Periods for Mitigated. POC #1

Return Period	Flow(cfs)
2 year	0.298965
5 year	0.516908
10 year	0.713421
25 year	1.034729
50 year	1.336654
100 year	1.701082

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #1

Year	Predeveloped	Mitigated
1949	0.618	0.452
1950	0.480	0.251
1951	0.430	0.234
1952	0.196	0.145
1953	0.253	0.241
1954	1.547	1.384
1955	1.082	0.245
1956	0.520	0.251
1957	0.650	0.252
1958	0.231	0.201

1959	0.519	0.746
1960	0.877	0.233
1961	1.072	0.674
1962	0.240	0.156
1963	0.395	0.223
1964	0.390	0.213
1965	0.411	0.229
1966	0.431	0.197
1967	0.943	0.500
1968	0.274	0.171
1969	0.133	0.186
1970	0.291	0.184
1971	3.595	0.178
1972	1.490	0.377
1973	0.616	0.471
1974	0.329	0.428
1975	0.365	0.223
1976	0.418	0.515
1977	0.144	0.230
1978	0.078	0.163
1979	0.075	0.227
1980	0.893	0.859
1981	0.566	0.923
1982	0.756	0.240
1983	0.793	0.405
1984	0.333	0.202
1985	1.615	0.774
1986	1.437	0.899
1987	0.618	0.249
1988	0.459	0.618
1989	0.371	0.194
1990	0.451	0.233
1991	0.933	0.917
1992	0.828	0.510
1993	0.281	0.175
1994	0.029	0.160
1995	0.180	0.211
1996	0.488	0.211
1997	1.013	0.710
1998	0.085	0.155
1999	1.433	1.108
2000	0.519	0.226
2001	0.244	0.168
2002	0.863	0.381
2003	0.562	0.241
2004	0.893	1.123
2005	0.348	0.224
2006	0.778	0.250
2007	2.157	0.613
2008	0.245	0.411
2009	0.411	0.233

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	3.5949	1.3836
2	2.1574	1.1229
3	1.6149	1.1077

4	1.5465	0.9234
5	1.4903	0.9167
6	1.4369	0.8987
7	1.4335	0.8594
8	1.0818	0.7745
9	1.0716	0.7460
10	1.0130	0.7095
11	0.9434	0.6744
12	0.9333	0.6185
13	0.8928	0.6128
14	0.8926	0.5147
15	0.8770	0.5099
16	0.8626	0.4995
17	0.8277	0.4713
18	0.7925	0.4521
19	0.7777	0.4280
20	0.7562	0.4109
21	0.6499	0.4047
22	0.6183	0.3812
23	0.6182	0.3767
24	0.6163	0.2519
25	0.5663	0.2515
26	0.5615	0.2506
27	0.5202	0.2496
28	0.5194	0.2491
29	0.5186	0.2451
30	0.4877	0.2407
31	0.4797	0.2405
32	0.4594	0.2400
33	0.4514	0.2338
34	0.4315	0.2334
35	0.4296	0.2329
36	0.4180	0.2327
37	0.4115	0.2298
38	0.4109	0.2287
39	0.3951	0.2273
40	0.3897	0.2256
41	0.3714	0.2237
42	0.3647	0.2235
43	0.3483	0.2229
44	0.3326	0.2129
45	0.3288	0.2114
46	0.2911	0.2111
47	0.2806	0.2020
48	0.2742	0.2012
49	0.2534	0.1967
50	0.2452	0.1939
51	0.2436	0.1862
52	0.2395	0.1844
53	0.2306	0.1784
54	0.1960	0.1745
55	0.1799	0.1712
56	0.1441	0.1679
57	0.1326	0.1627
58	0.0846	0.1601
59	0.0779	0.1562
60	0.0747	0.1548
61	0.0291	0.1445

Duration Flows
The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2520	17992	12053	66	Pass
0.2715	15462	7067	45	Pass
0.2909	13377	6573	49	Pass
0.3104	11552	6192	53	Pass
0.3298	10121	5876	58	Pass
0.3493	8834	5544	62	Pass
0.3688	7815	5219	66	Pass
0.3882	6879	4840	70	Pass
0.4077	6096	4545	74	Pass
0.4271	5390	4286	79	Pass
0.4466	4857	4051	83	Pass
0.4660	4329	3782	87	Pass
0.4855	3903	3435	88	Pass
0.5049	3514	3155	89	Pass
0.5244	3099	2941	94	Pass
0.5439	2776	2740	98	Pass
0.5633	2477	2513	101	Pass
0.5828	2252	2239	99	Pass
0.6022	2019	2055	101	Pass
0.6217	1825	1893	103	Pass
0.6411	1671	1759	105	Pass
0.6606	1550	1621	104	Pass
0.6801	1407	1468	104	Pass
0.6995	1295	1327	102	Pass
0.7190	1161	1200	103	Pass
0.7384	1039	1085	104	Pass
0.7579	929	974	104	Pass
0.7773	835	850	101	Pass
0.7968	749	761	101	Pass
0.8163	680	666	97	Pass
0.8357	589	570	96	Pass
0.8552	511	456	89	Pass
0.8746	437	414	94	Pass
0.8941	393	378	96	Pass
0.9135	363	350	96	Pass
0.9330	333	322	96	Pass
0.9525	300	306	102	Pass
0.9719	283	291	102	Pass
0.9914	260	270	103	Pass
1.0108	238	252	105	Pass
1.0303	208	217	104	Pass
1.0497	194	178	91	Pass
1.0692	177	149	84	Pass
1.0887	165	112	67	Pass
1.1081	160	70	43	Pass
1.1276	153	44	28	Pass
1.1470	144	36	25	Pass
1.1665	136	29	21	Pass
1.1859	128	21	16	Pass
1.2054	123	16	13	Pass
1.2249	118	14	11	Pass
1.2443	113	14	12	Pass
1.2638	104	12	11	Pass

1.2832	92	11	11	Pass
1.3027	84	9	10	Pass
1.3221	76	8	10	Pass
1.3416	71	7	9	Pass
1.3611	63	5	7	Pass
1.3805	52	2	3	Pass
1.4000	44	0	0	Pass
1.4194	25	0	0	Pass
1.4389	8	0	0	Pass
1.4583	8	0	0	Pass
1.4778	8	0	0	Pass
1.4973	7	0	0	Pass
1.5167	6	0	0	Pass
1.5362	5	0	0	Pass
1.5556	4	0	0	Pass
1.5751	4	0	0	Pass
1.5945	4	0	0	Pass
1.6140	4	0	0	Pass
1.6335	3	0	0	Pass
1.6529	3	0	0	Pass
1.6724	3	0	0	Pass
1.6918	3	0	0	Pass
1.7113	3	0	0	Pass
1.7307	3	0	0	Pass
1.7502	3	0	0	Pass
1.7697	3	0	0	Pass
1.7891	3	0	0	Pass
1.8086	3	0	0	Pass
1.8280	3	0	0	Pass
1.8475	3	0	0	Pass
1.8669	3	0	0	Pass
1.8864	3	0	0	Pass
1.9059	3	0	0	Pass
1.9253	3	0	0	Pass
1.9448	3	0	0	Pass
1.9642	3	0	0	Pass
1.9837	3	0	0	Pass
2.0031	3	0	0	Pass
2.0226	3	0	0	Pass
2.0421	3	0	0	Pass
2.0615	3	0	0	Pass
2.0810	3	0	0	Pass
2.1004	3	0	0	Pass
2.1199	3	0	0	Pass
2.1393	3	0	0	Pass
2.1588	2	0	0	Pass
2.1783	2	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #1

On-line facility volume:	0 acre-feet
On-line facility target flow:	0 cfs.
Adjusted for 15 min:	0 cfs.
Off-line facility target flow:	0 cfs.
Adjusted for 15 min:	0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Pond 2 POC	☐	1780.65			☐	0.00			
Pond 1	☐	490.41			☐	0.00			
Total Volume Infiltrated		2271.06	0.00	0.00		0.00	0.00	0%	No Treat. Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Failed

POC 2

POC #2 was not reported because POC must exist in both scenarios and both scenarios must have been run.

Model Default Modifications

Total of 0 changes have been made.

PERLND Changes

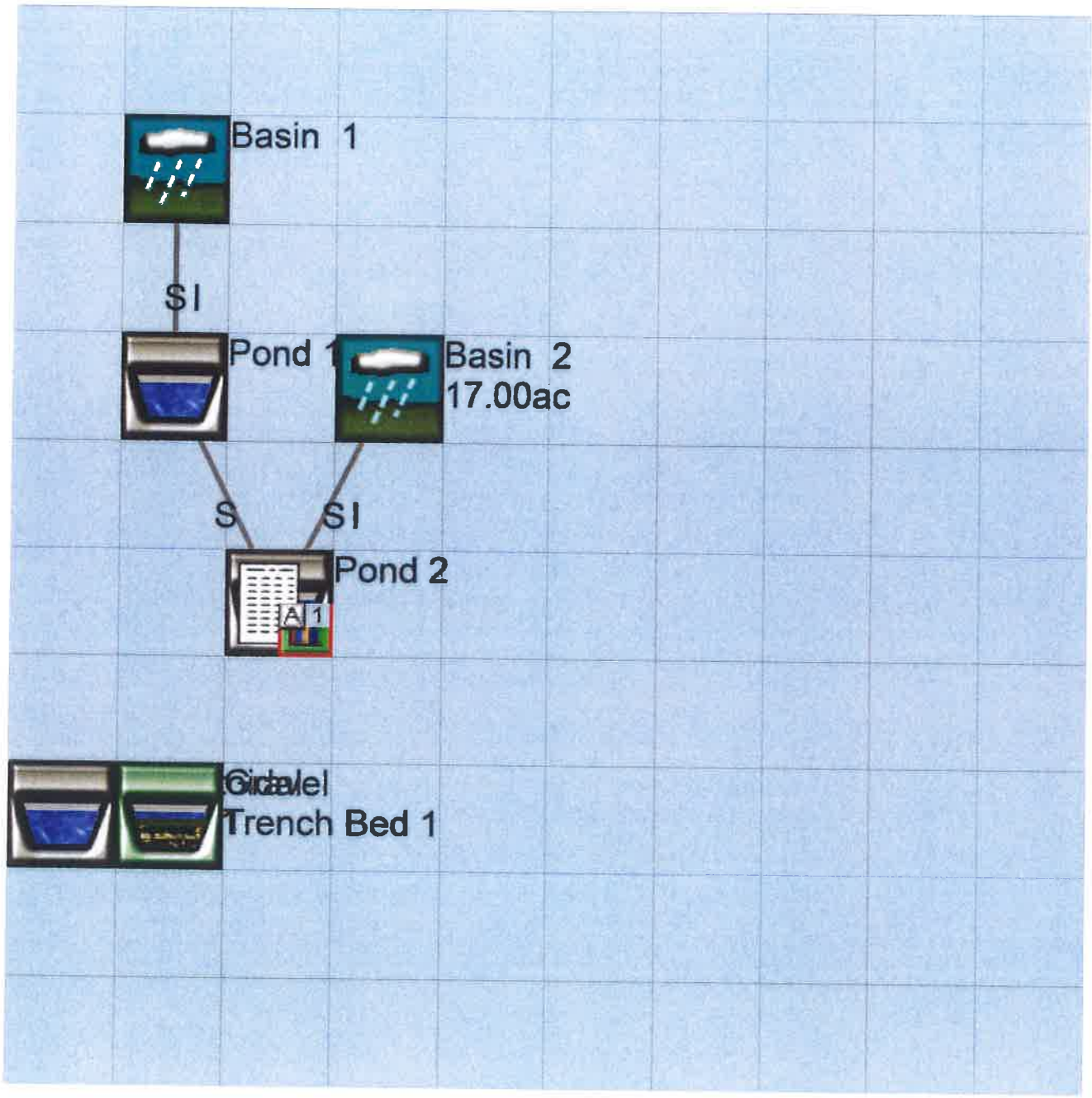
No PERLND changes have been made.

IMPLND Changes

No IMPLND changes have been made.

Appendix
Predeveloped Schematic

Mitigated Schematic



Predeveloped UCI File

Mitigated UCI File

```
RUN

GLOBAL
  WWHM4 model simulation
  START       1948 10 01        END    2009 09 30
  RUN INTERP OUTPUT LEVEL    3    0
  RESUME     0 RUN     1                    UNIT SYSTEM     1
END GLOBAL

FILES
<File>  <Un#>   <-----------File Name------------------------------>***
<-ID->                                                               ***
WDM         26   As-Built 10-20-2023.wdm
MESSU       25   MitAs-Built 10-20-2023.MES
            27   MitAs-Built 10-20-2023.L61
            28   MitAs-Built 10-20-2023.L62
            30   POCAs-Built 10-20-20231.dat
END FILES

OPN SEQUENCE
    INGRP                INDELT 00:15
      PERLND      14
      IMPLND      11
      IMPLND      14
      RCHRES       1
      RCHRES       2
      RCHRES       3
      RCHRES       4
      COPY         1
      COPY       501
      DISPLY       1
    END INGRP
END OPN SEQUENCE
DISPLY
  DISPLY-INFO1
    # -  #<----------Title---------->***TRAN PIVL DIG1 FIL1  PYR DIG2 FIL2 YRND
    1        Pond 2                    MAX                    1    2   30    9
  END DISPLY-INFO1
END DISPLY
COPY
  TIMESERIES
    # -  #  NPT  NMN ***
    1         1    1
  501         1    1
  END TIMESERIES
END COPY
GENER
  OPCODE
    #    # OPCD ***
  END OPCODE
  PARM
    #    #          K ***
  END PARM
END GENER
PERLND
  GEN-INFO
    <PLS ><-------Name------->NBLKS   Unit-systems   Printer ***
    # -  #                          User  t-series Engl Metr ***
                                      in  out           ***
   14     C, Pasture, Mod         1    1    1    1   27    0
  END GEN-INFO
  *** Section PWATER***

  ACTIVITY
    <PLS > ************ Active Sections ******************************
    # -  # ATMP SNOW PWAT  SED  PST  PWG PQAL MSTL PEST NITR PHOS TRAC ***
   14         0    0    1    0    0    0    0    0    0    0    0    0
  END ACTIVITY
```

```
    PRINT-INFO
      <PLS > ***************** Print-flags ***************************** PIVL  PYR
      # -   # ATMP SNOW PWAT  SED  PST  PWG PQAL MSTL PEST NITR PHOS TRAC  *********
     14         0    0    4    0    0    0    0    0    0    0    0    0    1    9
    END PRINT-INFO

    PWAT-PARM1
      <PLS >  PWATER variable monthly parameter value flags  ***
      # -   # CSNO RTOP UZFG  VCS  VUZ  VNN VIFW VIRC  VLE INFC  HWT ***
     14         0    0    0    0    0    0    0    0    0    0    0
    END PWAT-PARM1

    PWAT-PARM2
      <PLS >       PWATER input info: Part 2          ***
      # -   # ***FOREST      LZSN     INFILT      LSUR     SLSUR     KVARY     AGWRC
     14              0       4.5       0.06       400       0.1       0.5     0.996
    END PWAT-PARM2

    PWAT-PARM3
      <PLS >       PWATER input info: Part 3          ***
      # -   # ***PETMAX    PETMIN    INFEXP    INFILD    DEEPFR    BASETP    AGWETP
     14              0         0         2         2         0         0         0
    END PWAT-PARM3
    PWAT-PARM4
      <PLS >      PWATER input info: Part 4                                  ***
      # -   #      CEPSC      UZSN      NSUR     INTFW       IRC     LZETP ***
     14           0.15       0.4       0.3         6       0.5       0.4
    END PWAT-PARM4

    PWAT-STATE1
      <PLS > *** Initial conditions at start of simulation
                ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 ***
      # -   # ***  CEPS      SURS       UZS      IFWS       LZS      AGWS       GWVS
     14              0         0         0         0       2.5         1          0
    END PWAT-STATE1

  END PERLND

  IMPLND
    GEN-INFO
      <PLS ><-------Name------->   Unit-systems   Printer ***
      # -   #                     User  t-series Engl Metr ***
                                      in  out           ***
     11       PARKING/FLAT           1    1    1   27    0
     14       POND                   1    1    1   27    0
    END GEN-INFO
    *** Section IWATER***

    ACTIVITY
      <PLS > ************* Active Sections ******************************
      # -   # ATMP SNOW IWAT  SLD  IWG IQAL   ***
     11         0    0    1    0    0    0
     14         0    0    1    0    0    0
    END ACTIVITY

    PRINT-INFO
      <ILS > ******** Print-flags ******** PIVL  PYR
      # -   # ATMP SNOW IWAT  SLD  IWG IQAL    *********
     11         0    0    4    0    0    0    1    9
     14         0    0    4    0    0    0    1    9
    END PRINT-INFO

    IWAT-PARM1
      <PLS >  IWATER variable monthly parameter value flags  ***
      # -   # CSNO RTOP  VRS  VNN RTLI     ***
     11         0    0    0    0    0
     14         0    0    0    0    0
    END IWAT-PARM1
```

```
  IWAT-PARM2
    <PLS >       IWATER input info: Part 2          ***
    # -   # ***  LSUR      SLSUR      NSUR      RETSC
   11             400       0.01       0.1        0.1
   14             400       0.01       0.1        0.1
  END IWAT-PARM2

  IWAT-PARM3
    <PLS >       IWATER input info: Part 3          ***
    # -   # ***PETMAX     PETMIN
   11               0          0
   14               0          0
  END IWAT-PARM3

  IWAT-STATE1
    <PLS > *** Initial conditions at start of simulation
    # -   # ***  RETS       SURS
   11               0          0
   14               0          0
  END IWAT-STATE1

END IMPLND

SCHEMATIC
<-Source->                  <--Area-->      <-Target->   MBLK    ***
<Name>   #                  <-factor->      <Name>   #   Tbl#    ***
Basin  2***
PERLND  14                         6      RCHRES   4      2
PERLND  14                         6      RCHRES   4      3
IMPLND  11                        10      RCHRES   4      5
IMPLND  14                         1      RCHRES   4      5
Basin  1***
IMPLND  11                       4.2      RCHRES   3      5
IMPLND  14                       0.6      RCHRES   3      5

******Routing******
PERLND  14                         6      COPY     1     12
IMPLND  11                        10      COPY     1     15
IMPLND  14                         1      COPY     1     15
PERLND  14                         6      COPY     1     13
RCHRES   3                         1      RCHRES   4      6
RCHRES   3                                COPY     1     16
RCHRES   4                         1      COPY   501     16
END SCHEMATIC

NETWORK
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member->  ***
<Name>   #        <Name> # #<-factor->strg <Name>   #   #        <Name> # #  ***
COPY   501 OUTPUT MEAN   1 1   48.4        DISPLY   1     INPUT  TIMSER 1



<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member->  ***
<Name>   #        <Name> # #<-factor->strg <Name>   #   #        <Name> # #  ***
END NETWORK

RCHRES
  GEN-INFO
    RCHRES       Name        Nexits   Unit Systems   Printer                ***
    # -   #<------------------><---> User T-series  Engl Metr LKFG          ***
                                        in  out                             ***
    1     Trapezoidal Pond-005    1    1    1    1   28    0    1
    2     Gravel Trench Be-007    1    1    1    1   28    0    1
    3     Pond 1                  1    1    1    1   28    0    1
    4     Pond 2                  1    1    1    1   28    0    1
  END GEN-INFO
  *** Section RCHRES***

  ACTIVITY
    <PLS > ************ Active Sections ****************************
```

```
    # -  # HYFG ADFG CNFG HTFG SDFG GQFG OXFG NUFG PKFG PHFG ***
    1         1    0    0    0    0    0    0    0    0    0
    2         1    0    0    0    0    0    0    0    0    0
    3         1    0    0    0    0    0    0    0    0    0
    4         1    0    0    0    0    0    0    0    0    0
  END ACTIVITY

  PRINT-INFO
    <PLS > ***************** Print-flags ******************** PIVL  PYR
    # -  # HYDR ADCA CONS HEAT  SED  GQL OXRX NUTR PLNK PHCB PIVL  PYR  *********
    1         4    0    0    0    0    0    0    0    0    0    1    9
    2         4    0    0    0    0    0    0    0    0    0    1    9
    3         4    0    0    0    0    0    0    0    0    0    1    9
    4         4    0    0    0    0    0    0    0    0    0    1    9
  END PRINT-INFO

  HYDR-PARM1
    RCHRES  Flags for each HYDR Section                                  ***
    # -  #  VC A1 A2 A3  ODFVFG for each *** ODGTFG for each     FUNCT  for each
          FG FG FG FG  possible  exit  *** possible  exit      possible  exit
           *  *  *  *    *  *  *  *  *       *  *  *  *  *        ***
    1      0  1  0  0    4  0  0  0  0       0  0  0  0  0        2  2  2  2  2
    2      0  1  0  0    4  0  0  0  0       0  0  0  0  0        2  2  2  2  2
    3      0  1  0  0    4  0  0  0  0       0  0  0  0  0        2  2  2  2  2
    4      0  1  0  0    4  0  0  0  0       0  0  0  0  0        2  2  2  2  2
  END HYDR-PARM1

  HYDR-PARM2
    # -  #     FTABNO       LEN      DELTH     STCOR      KS       DB50       ***
  <------><--------><--------><--------><--------><--------><--------->       ***
    1               1       0.1        0.0       0.0       0.5       0.0
    2               2      0.09        0.0       0.0       0.5       0.0
    3               3      0.03        0.0       0.0       0.5       0.0
    4               4      0.01        0.0       0.0       0.5       0.0
  END HYDR-PARM2
  HYDR-INIT
    RCHRES  Initial conditions for each HYDR section                     ***
    # -  # ***   VOL     Initial value of COLIND     Initial value of OUTDGT
         *** ac-ft     for each possible exit        for each possible exit
  <------><--------->     <---><---><---><---><---> *** <---><---><---><---><--->
    1              0        4.0  0.0  0.0  0.0  0.0       0.0  0.0  0.0  0.0  0.0
    2              0        4.0  0.0  0.0  0.0  0.0       0.0  0.0  0.0  0.0  0.0
    3              0        4.0  0.0  0.0  0.0  0.0       0.0  0.0  0.0  0.0  0.0
    4              0        4.0  0.0  0.0  0.0  0.0       0.0  0.0  0.0  0.0  0.0
  END HYDR-INIT
END RCHRES

SPEC-ACTIONS
END SPEC-ACTIONS
FTABLES
  FTABLE      1
   91    4
     Depth      Area     Volume  Outflow1 Velocity  Travel Time***
      (ft)    (acres) (acre-ft)    (cfs)   (ft/sec)    (Minutes)***
  0.000000  1.070523  0.000000  0.000000
  0.055556  1.075293  0.059606  0.037769
  0.111111  1.080068  0.119477  0.053413
  0.166667  1.084848  0.179614  0.065418
  0.222222  1.089634  0.240016  0.075538
  0.277778  1.094424  0.300684  0.084454
  0.333333  1.099219  0.361619  0.092515
  0.388889  1.104020  0.422820  0.099927
  0.444444  1.108826  0.484288  0.106827
  0.500000  1.113636  0.546023  0.113307
  0.555556  1.118452  0.608025  0.119436
  0.611111  1.123273  0.670296  0.125265
  0.666667  1.128099  0.732834  0.130836
  0.722222  1.132930  0.795640  0.136178
  0.777778  1.137767  0.858715  0.141319
  0.833333  1.142608  0.922059  0.146279
```

0.888889	1.147454	0.985672	0.151076
0.944444	1.152306	1.049554	0.155725
1.000000	1.157163	1.113706	0.160240
1.055556	1.162024	1.178128	0.164631
1.111111	1.166891	1.242820	0.168908
1.166667	1.171763	1.307782	0.173079
1.222222	1.176640	1.373016	0.177152
1.277778	1.181522	1.438520	0.181134
1.333333	1.186410	1.504296	0.185029
1.388889	1.191302	1.570344	0.188845
1.444444	1.196199	1.636663	0.192585
1.500000	1.201102	1.703255	0.196253
1.555556	1.206010	1.770119	0.199855
1.611111	1.210922	1.837256	0.203392
1.666667	1.215840	1.904666	0.206869
1.722222	1.220763	1.972349	0.210289
1.777778	1.225691	2.040307	0.213653
1.833333	1.230624	2.108538	0.216966
1.888889	1.235563	2.177043	0.220229
1.944444	1.240506	2.245822	0.223444
2.000000	1.245455	2.314877	0.226614
2.055556	1.250408	2.384206	0.229740
2.111111	1.255367	2.453811	0.232824
2.166667	1.260331	2.523692	0.235867
2.222222	1.265299	2.593848	0.238872
2.277778	1.270273	2.664281	0.241839
2.333333	1.275253	2.734990	0.244771
2.388889	1.280237	2.805976	0.247668
2.444444	1.285226	2.877238	0.250531
2.500000	1.290220	2.948779	0.253362
2.555556	1.295220	3.020596	0.256162
2.611111	1.300224	3.092692	0.258931
2.666667	1.305234	3.165066	0.261671
2.722222	1.310249	3.237718	0.264383
2.777778	1.315269	3.310649	0.380137
2.833333	1.320294	3.383859	0.465567
2.888889	1.325324	3.457349	0.525188
2.944444	1.330359	3.531118	0.574117
3.000000	1.335399	3.605167	0.616754
3.055556	1.340445	3.679496	0.655113
3.111111	1.345495	3.754105	0.690317
3.166667	1.350551	3.828995	0.723068
3.222222	1.355612	3.904166	0.753839
3.277778	1.360677	3.979619	0.782970
3.333333	1.365748	4.055353	0.810709
3.388889	1.370824	4.131369	0.837250
3.444444	1.375906	4.207667	0.862743
3.500000	1.380992	4.284247	0.922070
3.555556	1.386083	4.361111	0.964027
3.611111	1.391179	4.438257	1.000416
3.666667	1.396281	4.515686	1.033850
3.722222	1.401388	4.593399	1.065265
3.777778	1.406499	4.671396	1.095139
3.833333	1.411616	4.749677	1.123762
3.888889	1.416738	4.828242	1.151332
3.944444	1.421865	4.907093	1.177989
4.000000	1.426997	4.986228	1.203841
4.055556	1.432134	5.065648	1.437246
4.111111	1.437277	5.145354	1.841263
4.166667	1.442424	5.225345	2.351617
4.222222	1.447577	5.305623	2.937638
4.277778	1.452734	5.386187	3.572371
4.333333	1.457897	5.467038	4.228427
4.388889	1.463065	5.548176	4.877765
4.444444	1.468238	5.629601	5.493005
4.500000	1.473416	5.711314	6.049608
4.555556	1.478599	5.793314	6.528651
4.611111	1.483787	5.875603	6.920078
4.666667	1.488981	5.958180	7.226346
4.722222	1.494179	6.041045	7.466418

4.777778	1.499383	6.124200	7.761024
4.833333	1.504591	6.207643	7.999617
4.888889	1.509805	6.291377	8.230745
4.944444	1.515024	6.375400	8.455085
5.000000	1.520248	6.459713	8.673217

END FTABLE 1
FTABLE 2
92 4

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	1.147842	0.000000	0.000000		
0.033333	1.147851	0.012754	0.000000		
0.066667	1.147860	0.025508	0.000000		
0.100000	1.147870	0.038261	0.000000		
0.133333	1.147879	0.051016	0.000000		
0.166667	1.147888	0.063770	0.000000		
0.200000	1.147897	0.076524	0.000000		
0.233333	1.147906	0.089278	0.000000		
0.266667	1.147916	0.102033	0.000000		
0.300000	1.147925	0.114787	0.000000		
0.333333	1.147934	0.127542	0.000000		
0.366667	1.147943	0.140297	0.000000		
0.400000	1.147952	0.153051	0.000000		
0.433333	1.147961	0.165806	0.000000		
0.466667	1.147971	0.178561	0.000000		
0.500000	1.147980	0.191317	0.000000		
0.533333	1.147989	0.204072	0.000000		
0.566667	1.147998	0.216827	0.000000		
0.600000	1.148007	0.229583	0.000000		
0.633333	1.148017	0.242338	0.000000		
0.666667	1.148026	0.255094	0.000000		
0.700000	1.148035	0.267850	0.000000		
0.733333	1.148044	0.280605	0.000000		
0.766667	1.148053	0.293361	0.000000		
0.800000	1.148062	0.306118	0.000000		
0.833333	1.148072	0.318874	0.000000		
0.866667	1.148081	0.331630	0.000000		
0.900000	1.148090	0.344386	0.000000		
0.933333	1.148099	0.357143	0.000000		
0.966667	1.148108	0.369899	0.000000		
1.000000	1.148118	0.382656	0.000000		
1.033333	1.148127	0.395413	0.000000		
1.066667	1.148136	0.408170	0.000000		
1.100000	1.148145	0.420927	0.000000		
1.133333	1.148154	0.433684	0.000000		
1.166667	1.148163	0.446441	0.000000		
1.200000	1.148173	0.459198	0.000000		
1.233333	1.148182	0.471956	0.000000		
1.266667	1.148191	0.484713	0.000000		
1.300000	1.148200	0.497471	0.000000		
1.333333	1.148209	0.510229	0.000000		
1.366667	1.148219	0.522986	0.000000		
1.400000	1.148228	0.535744	0.000000		
1.433333	1.148237	0.548502	0.000000		
1.466667	1.148246	0.561260	0.000000		
1.500000	1.148255	0.574019	0.000000		
1.533333	1.148264	0.586777	0.000000		
1.566667	1.148274	0.599535	0.000000		
1.600000	1.148283	0.612294	0.000000		
1.633333	1.148292	0.625052	0.000000		
1.666667	1.148301	0.637811	0.000000		
1.700000	1.148310	0.650570	0.000000		
1.733333	1.148320	0.663329	0.000000		
1.766667	1.148329	0.676088	0.000000		
1.800000	1.148338	0.688847	0.000000		
1.833333	1.148347	0.701606	0.000000		
1.866667	1.148356	0.714366	0.000000		
1.900000	1.148366	0.727125	0.000000		
1.933333	1.148375	0.739885	0.000000		
1.966667	1.148384	0.752644	0.000000		

```
2.000000  1.148393  0.790924  0.000000
2.033333  1.148402  0.829204  0.096853
2.066667  1.148411  0.867484  0.273695
2.100000  1.148421  0.905765  0.502178
2.133333  1.148430  0.944045  0.771465
2.166667  1.148439  0.982327  1.074270
2.200000  1.148448  1.020608  1.404464
2.233333  1.148457  1.058890  1.756250
2.266667  1.148467  1.097172  2.123824
2.300000  1.148476  1.135454  2.501261
2.333333  1.148485  1.173737  2.882519
2.366667  1.148494  1.212020  3.261505
2.400000  1.148503  1.250303  3.632201
2.433333  1.148512  1.288587  3.988826
2.466667  1.148522  1.326871  4.326027
2.500000  1.148531  1.365155  4.639092
2.533333  1.148540  1.403439  4.924197
2.566667  1.148549  1.441724  5.178660
2.600000  1.148558  1.480009  5.401220
2.633333  1.148568  1.518295  5.592337
2.666667  1.148577  1.556581  5.754494
2.700000  1.148586  1.594867  5.892534
2.733333  1.148595  1.633153  6.013989
2.766667  1.148604  1.671440  6.205051
2.800000  1.148613  1.709727  6.338508
2.833333  1.148623  1.748014  6.469213
2.866667  1.148632  1.786301  6.597328
2.900000  1.148641  1.824589  6.723003
2.933333  1.148650  1.862877  6.846371
2.966667  1.148659  1.901166  6.967555
3.000000  1.148669  1.939455  7.086668
3.033333  1.148678  1.977744  7.203811
END FTABLE  2
FTABLE      4
 91    4
   Depth      Area    Volume  Outflow1 Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)   (ft/sec)    (Minutes)***
0.000000  1.071000  0.000000  0.000000
0.056000  1.075000  0.060000  0.036989
0.111000  1.080000  0.119000  0.052077
0.167000  1.085000  0.180000  0.063876
0.222000  1.090000  0.240000  0.073647
0.278000  1.094000  0.301000  0.082414
0.333000  1.099000  0.362000  0.090199
0.389000  1.104000  0.423000  0.097489
0.444000  1.109000  0.484000  0.104153
0.500000  1.114000  0.546000  0.110526
0.556000  1.118000  0.608000  0.116552
0.611000  1.123000  0.670000  0.122180
0.667000  1.128000  0.733000  0.127657
0.722000  1.133000  0.796000  0.132816
0.778000  1.138000  0.859000  0.137870
0.833000  1.143000  0.922000  0.142660
0.889000  1.147000  0.986000  0.147378
0.944000  1.152000  1.050000  0.151868
1.000000  1.157000  1.114000  0.156308
1.056000  1.162000  1.178000  0.160625
1.111000  1.167000  1.243000  0.164755
1.167000  1.172000  1.308000  0.168856
1.222000  1.177000  1.373000  0.172789
1.278000  1.182000  1.439000  0.176704
1.333000  1.186000  1.504000  0.180466
1.389000  1.191000  1.570000  0.184218
1.444000  1.196000  1.637000  0.187830
1.500000  1.201000  1.703000  0.191437
1.556000  1.206000  1.770000  0.194978
1.611000  1.211000  1.837000  0.198394
1.667000  1.216000  1.905000  0.201813
1.722000  1.221000  1.972000  0.205115
1.778000  1.226000  2.040000  0.208424
```

```
1.833000  1.231000  2.109000  0.211623
1.889000  1.236000  2.177000  0.214831
1.944000  1.241000  2.246000  0.217936
2.000000  2.393000  2.315000  0.221053
2.056000  2.398000  2.405000  0.224126
2.111000  2.403000  2.496000  0.227104
2.167000  2.408000  2.587000  0.230097
2.222000  2.413000  2.679000  0.232999
2.278000  2.418000  2.770000  0.235916
2.333000  2.423000  2.862000  0.238747
2.389000  2.428000  2.955000  0.241596
2.444000  2.433000  3.047000  0.244361
2.500000  2.438000  3.140000  0.247145
2.556000  2.443000  3.233000  0.249897
2.611000  2.448000  3.326000  0.252572
2.667000  2.453000  3.420000  0.255266
2.722000  2.458000  3.514000  0.257885
2.778000  2.463000  3.608000  0.374045
2.833000  2.468000  3.702000  0.458541
2.889000  2.473000  3.797000  0.518611
2.944000  2.478000  3.892000  0.567008
3.000000  2.483000  3.987000  0.609943
3.056000  2.488000  4.083000  0.648532
3.111000  2.493000  4.179000  0.683314
3.167000  2.498000  4.275000  0.716260
3.222000  2.503000  4.371000  0.746662
3.278000  2.509000  4.468000  0.775964
3.333000  2.514000  4.565000  0.803368
3.389000  2.519000  4.662000  0.830063
3.444000  2.524000  4.760000  0.855246
3.500000  2.529000  4.858000  0.917879
3.556000  2.534000  4.956000  0.959044
3.611000  2.539000  5.054000  0.994587
3.667000  2.544000  5.153000  1.027984
3.722000  2.549000  5.252000  1.058867
3.778000  2.554000  5.351000  1.088805
3.833000  2.559000  5.450000  1.116997
3.889000  2.565000  5.550000  1.144660
3.944000  2.570000  5.650000  1.170939
4.000000  2.575000  5.751000  1.196895
4.056000  2.580000  5.851000  1.432902
4.111000  2.585000  5.952000  1.833201
4.167000  2.590000  6.054000  2.347712
4.222000  2.595000  6.155000  2.927873
4.278000  2.601000  6.257000  3.567585
4.333000  2.606000  6.359000  4.217021
4.389000  2.611000  6.461000  4.871502
4.444000  2.616000  6.564000  5.480679
4.500000  2.621000  6.667000  6.041930
4.556000  2.626000  6.770000  6.524390
4.611000  2.632000  6.874000  6.911571
4.667000  2.637000  6.977000  7.220076
4.722000  2.642000  7.082000  7.457602
4.778000  2.647000  7.186000  7.753989
4.833000  2.652000  7.291000  7.990142
4.889000  2.658000  7.396000  8.223072
4.944000  2.663000  7.501000  8.445128
5.000000  2.668000  7.606000  8.664970
END FTABLE  4
FTABLE      3
 91    4
   Depth      Area     Volume  Outflow1 Velocity  Travel Time***
    (ft)   (acres) (acre-ft)   (cfs)   (ft/sec)    (Minutes)***
0.000000  0.330579  0.000000  0.000000
0.055556  0.332494  0.018419  0.004897
0.111111  0.334415  0.036944  0.006926
0.166667  0.336341  0.055576  0.008482
0.222222  0.338272  0.074315  0.009794
0.277778  0.340208  0.093162  0.010950
0.333333  0.342149  0.112116  0.011995
```

0.388889	0.344095	0.131179	0.012956
0.444444	0.346046	0.150349	0.013851
0.500000	0.348003	0.169628	0.014691
0.555556	0.349964	0.189016	0.015486
0.611111	0.351931	0.208513	0.016242
0.666667	0.353903	0.228120	0.016964
0.722222	0.355880	0.247836	0.017657
0.777778	0.357861	0.267662	0.018323
0.833333	0.359848	0.287599	0.018966
0.888889	0.361841	0.307645	0.019588
0.944444	0.363838	0.327803	0.020191
1.000000	0.365840	0.348072	0.020777
1.055556	0.367848	0.368452	0.021346
1.111111	0.369860	0.388944	0.021900
1.166667	0.371878	0.409548	0.022441
1.222222	0.373901	0.430264	0.022969
1.277778	0.375928	0.451093	0.023486
1.333333	0.377961	0.472034	0.023991
1.388889	0.379999	0.493089	0.024485
1.444444	0.382043	0.514256	0.024970
1.500000	0.384091	0.535538	0.025446
1.555556	0.386144	0.556933	0.025913
1.611111	0.388203	0.578443	0.026372
1.666667	0.390266	0.600067	0.026822
1.722222	0.392335	0.621806	0.027266
1.777778	0.394409	0.643660	0.027702
1.833333	0.396488	0.665629	0.028132
1.888889	0.398572	0.687714	0.028555
1.944444	0.400661	0.709915	0.028972
2.000000	0.402755	0.732232	0.029383
2.055556	0.404854	0.754666	0.029788
2.111111	0.406958	0.777216	0.030188
2.166667	0.409068	0.799884	0.030582
2.222222	0.411183	0.822668	0.030972
2.277778	0.413302	0.845571	0.031357
2.333333	0.415427	0.868591	0.031737
2.388889	0.417557	0.891729	0.032112
2.444444	0.419692	0.914986	0.032484
2.500000	0.421832	0.938362	0.032933
2.555556	0.423977	0.961857	0.034117
2.611111	0.426127	0.985471	0.035728
2.666667	0.428283	1.009204	0.037625
2.722222	0.430443	1.033058	0.039744
2.777778	0.432609	1.057031	0.042041
2.833333	0.434780	1.081126	0.044487
2.888889	0.436955	1.105340	0.047058
2.944444	0.439136	1.129676	0.049735
3.000000	0.441322	1.154134	0.052501
3.055556	0.443513	1.178712	0.055342
3.111111	0.445710	1.203413	0.058247
3.166667	0.447911	1.228236	0.061204
3.222222	0.450117	1.253181	0.064203
3.277778	0.452329	1.278249	0.067234
3.333333	0.454545	1.303440	0.070290
3.388889	0.456767	1.328754	0.073363
3.444444	0.458994	1.354192	0.076445
3.500000	0.461226	1.379754	0.079672
3.555556	0.463463	1.405439	0.083378
3.611111	0.465705	1.431250	0.087171
3.666667	0.467952	1.457184	0.091049
3.722222	0.470205	1.483244	0.095009
3.777778	0.472462	1.509430	0.099051
3.833333	0.474725	1.535740	0.103172
3.888889	0.476992	1.562177	0.128634
3.944444	0.479265	1.588740	0.134184
4.000000	0.481543	1.615429	0.139833
4.055556	0.483826	1.642244	0.348392
4.111111	0.486114	1.669187	0.728211
4.166667	0.488407	1.696257	1.214960
4.222222	0.490705	1.723455	1.777917

```
   4.277778  0.493008  1.750780  2.390088
   4.333333  0.495317  1.778234  3.024049
   4.388889  0.497630  1.805816  3.651727
   4.444444  0.499949  1.833526  4.245714
   4.500000  0.502273  1.861366  4.781446
   4.555556  0.504602  1.889334  5.239979
   4.611111  0.506936  1.917433  5.611236
   4.666667  0.509275  1.945661  5.897657
   4.722222  0.511619  1.974019  6.118189
   4.777778  0.513968  2.002507  6.393547
   4.833333  0.516322  2.031126  6.613170
   4.888889  0.518682  2.059877  6.825593
   4.944444  0.521046  2.088758  7.031482
   5.000000  0.523416  2.117771  7.231405
  END FTABLE  3
END FTABLES

EXT SOURCES
<-Volume-> <Member> SsysSgap<--Mult-->Tran <-Target vols> <-Grp> <-Member->  ***
<Name>   # <Name> # tem strg<-factor->strg <Name>   #   #        <Name> # #  ***
WDM      2 PREC     ENGL    1.143          PERLND   1 999 EXTNL  PREC
WDM      2 PREC     ENGL    1.143          IMPLND   1 999 EXTNL  PREC
WDM      1 EVAP     ENGL    0.76           PERLND   1 999 EXTNL  PETINP
WDM      1 EVAP     ENGL    0.76           IMPLND   1 999 EXTNL  PETINP

END EXT SOURCES

EXT TARGETS
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Volume-> <Member> Tsys Tgap Amd ***
<Name>   #        <Name> # #<-factor->strg <Name>   # <Name>    tem strg strg***
RCHRES   4 HYDR   RO     1 1        1      WDM   1000 FLOW     ENGL      REPL
RCHRES   4 HYDR   STAGE  1 1        1      WDM   1001 STAG     ENGL      REPL
COPY     1 OUTPUT MEAN   1 1     48.4      WDM    701 FLOW     ENGL      REPL
COPY   501 OUTPUT MEAN   1 1     48.4      WDM    801 FLOW     ENGL      REPL
END EXT TARGETS

MASS-LINK
<Volume>   <-Grp> <-Member-><--Mult-->     <Target>       <-Grp> <-Member->***
<Name>            <Name> # #<-factor->     <Name>                <Name> # #***
  MASS-LINK        2
PERLND     PWATER SURO       0.083333      RCHRES         INFLOW IVOL
  END MASS-LINK    2

  MASS-LINK        3
PERLND     PWATER IFWO       0.083333      RCHRES         INFLOW IVOL
  END MASS-LINK    3

  MASS-LINK        5
IMPLND     IWATER SURO       0.083333      RCHRES         INFLOW IVOL
  END MASS-LINK    5

  MASS-LINK        6
RCHRES     ROFLOW                          RCHRES         INFLOW
  END MASS-LINK    6

  MASS-LINK       12
PERLND     PWATER SURO       0.083333      COPY           INPUT  MEAN
  END MASS-LINK   12

  MASS-LINK       13
PERLND     PWATER IFWO       0.083333      COPY           INPUT  MEAN
  END MASS-LINK   13

  MASS-LINK       15
IMPLND     IWATER SURO       0.083333      COPY           INPUT  MEAN
  END MASS-LINK   15

  MASS-LINK       16
RCHRES     ROFLOW                          COPY           INPUT  MEAN
  END MASS-LINK   16
```

```
END MASS-LINK

END RUN
```

Predeveloped HSPF Message File

```
ERROR/WARNING ID:   238   1

The continuity error reported below is greater than 1 part in 1000 and is
therefore considered high.

Did you specify any "special actions"?  If so, they could account for it.

Relevant data are:
DATE/TIME: 1948/12/31 24: 0

RCHRES :    3

RELERR       STORS        STOR       MATIN      MATDIF
-1.227E-01     0.00000  0.0000E+00     0.00000  -1.042E-09

Where:

RELERR is the relative error (ERROR/REFVAL).
ERROR  is (STOR-STORS) - MATDIF.
REFVAL is the reference value (STORS+MATIN).
STOR   is the storage of material in the processing unit (land-segment or
reach/reservior) at the end of the present interval.
STORS  is the storage of material in the pu at the start of the present
printout reporting period.
MATIN  is the total inflow of material to the pu during the present printout
reporting period.
MATDIF is the net inflow (inflow-outflow) of material to the pu during the
present printout reporting period.

ERROR/WARNING ID:   238   1

The continuity error reported below is greater than 1 part in 1000 and is
therefore considered high.

Did you specify any "special actions"?  If so, they could account for it.

Relevant data are:
DATE/TIME: 1973/ 7/31 24: 0

RCHRES :    3

RELERR       STORS        STOR       MATIN      MATDIF
-3.735E-03     0.00000  0.0000E+00     0.00000  -3.895E-08

Where:

RELERR is the relative error (ERROR/REFVAL).
ERROR  is (STOR-STORS) - MATDIF.
REFVAL is the reference value (STORS+MATIN).
STOR   is the storage of material in the processing unit (land-segment or
reach/reservior) at the end of the present interval.
STORS  is the storage of material in the pu at the start of the present
printout reporting period.
MATIN  is the total inflow of material to the pu during the present printout
reporting period.
MATDIF is the net inflow (inflow-outflow) of material to the pu during the
present printout reporting period.

ERROR/WARNING ID:   238   1

The continuity error reported below is greater than 1 part in 1000 and is
therefore considered high.

Did you specify any "special actions"?  If so, they could account for it.

Relevant data are:
```

DATE/TIME: 1974/ 5/31 24: 0

RCHRES : 3

RELERR	STORS	STOR	MATIN	MATDIF
-2.057E-01	0.00000	0.0000E+00	0.00000	-5.628E-10

Where:

RELERR is the relative error (ERROR/REFVAL).
ERROR is (STOR-STORS) - MATDIF.
REFVAL is the reference value (STORS+MATIN).
STOR is the storage of material in the processing unit (land-segment or reach/reservior) at the end of the present interval.
STORS is the storage of material in the pu at the start of the present printout reporting period.
MATIN is the total inflow of material to the pu during the present printout reporting period.
MATDIF is the net inflow (inflow-outflow) of material to the pu during the present printout reporting period.

ERROR/WARNING ID: 238 1

The continuity error reported below is greater than 1 part in 1000 and is therefore considered high.

Did you specify any "special actions"? If so, they could account for it.

Relevant data are:
DATE/TIME: 1975/ 5/31 24: 0

RCHRES : 3

RELERR	STORS	STOR	MATIN	MATDIF
-3.387E-01	0.00000	0.0000E+00	0.00000	-2.863E-10

Where:

RELERR is the relative error (ERROR/REFVAL).
ERROR is (STOR-STORS) - MATDIF.
REFVAL is the reference value (STORS+MATIN).
STOR is the storage of material in the processing unit (land-segment or reach/reservior) at the end of the present interval.
STORS is the storage of material in the pu at the start of the present printout reporting period.
MATIN is the total inflow of material to the pu during the present printout reporting period.
MATDIF is the net inflow (inflow-outflow) of material to the pu during the present printout reporting period.

ERROR/WARNING ID: 238 1

The continuity error reported below is greater than 1 part in 1000 and is therefore considered high.

Did you specify any "special actions"? If so, they could account for it.

Relevant data are:
DATE/TIME: 1986/ 8/31 24: 0

RCHRES : 3

RELERR	STORS	STOR	MATIN	MATDIF
-2.010E-03	0.00000	0.0000E+00	0.00000	-7.255E-08

Where:

RELERR is the relative error (ERROR/REFVAL).
ERROR is (STOR-STORS) - MATDIF.

REFVAL is the reference value (STORS+MATIN).
STOR is the storage of material in the processing unit (land-segment or reach/reservior) at the end of the present interval.
STORS is the storage of material in the pu at the start of the present printout reporting period.
MATIN is the total inflow of material to the pu during the present printout reporting period.
MATDIF is the net inflow (inflow-outflow) of material to the pu during the present printout reporting period.

The count for the WARNING printed above has reached its maximum.

If the condition is encountered again the message will not be repeated.

Disclaimer

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APPENDIX D-2

Vicinity Documents

Krazan & ASSOCIATES, INC.

GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING & INSPECTION

February 28, 2024 Project No. 104-21030

Mr. Brian Payne
Payne Industrial Park and Storage, LLC
1921 West Highway 101
Port Angeles, Washington 98363

RE: Groundwater Quarterly Monitoring – First 2024 Quarter Summary Letter
Payne Industrial Park
1921 West Highway 101
Port Angeles, Washington 98363

Dear Mr. Payne:

This letter summarizes the results of groundwater monitoring activities for the referenced site in Port Angeles, Washington (see Figure 1, Vicinity Map). The monitoring is being conducted to confirm that contaminants of potential concern (COPCs) in groundwater downgradient of Areas 4 and 8 remain below MTCA Method A cleanup levels; and monitor groundwater for a sufficient time-frame to request a No Further Action (NFA) designation for the site. The scope of services was determined by and is compliant with Krazan's Sampling and Analysis Plan (FSID 61984337) dated October 20, 2021, and Ecology's Further Action response letter dated September 15, 2022. The work was conducted in general accordance with Proposal No. E21044WAP, dated July 21, 2021, which was approved by Mr. Brian Payne of Payne Industrial Park and Storage, LLC. on July 26, 2021.

GROUNDWATER SAMPLING

Three monitoring wells were installed within the Payne Industrial Park property on November 1, 2022. Monitoring well locations are provided in Figure 2, the Site Map. The monitoring wells were first developed on November 28, 2022 using a submersible pump to remove sediment from the wells. Approximately 37 gallons of water were pumped from each well, until the water appeared clear.

The first quarter of groundwater monitoring was conducted in wells MW-1, MW-2, and MW-4 on December 5, 2022, and from the existing well (MW-3) on December 19, 2022 and reported in our February 7, 2023 report. Results from the first-quarter monitoring event showed diesel-range hydrocarbons were detected in concentrations slightly greater than Model Toxics Control Act (MTCA) Method A cleanup level in MW-1. However, review of the analytical chromatograms indicated that the material detected in the DRO analysis was a poor match for the standard chromatogram of diesel-range organics. This indicated that some level of biogenic interferences or polar metabolites from diesel biodegradation may have been present, and that the results were biased high or even potentially false positives. Thus, subsequent rounds beginning in March 2023 would include both unmodified and silica gel extracted-analyses to confirm this hypothesis.

Prior to the first 2024 quarter sampling during February 14, 2024, the static water level was measured in each well as shown in the water sampling logs provided in Appendix A. Each well was purged until conventional water parameters stabilized to ensure collection of a representative groundwater sample. The sample was then collected utilizing a low-flow peristaltic pump and dispensed into laboratory-supplied sample bottles. Each sample bottle was labeled with the project name, number, and the sequential sample number. Following labeling, the samples were placed in an ice chest with synthetic ice and maintained at a temperature of approximately 4° Celsius.

The groundwater table in February was encountered in all monitoring wells at depths ranging from 3.51 feet to 4.99 feet below the tops of casings. The groundwater flow direction is to the north, indicated by the water table slope downward to the north. The static water level measurements and groundwater elevations are listed below in Table 1 and the water table configuration is shown in Figure 3.

All samples were transported to Friedman & Bruya, Inc. in Seattle, Washington for analysis. The groundwater samples were analyzed for Total Petroleum Hydrocarbons (TPH) in the gasoline range by Method NWTPH-Gx, Total Petroleum Hydrocarbons in the diesel-extended range by Method NWTPH-Dx, TPH in the diesel-extended range after silica gel extraction in all wells, volatile organic compounds (VOCs) by EPA Method 8260D, and both total and dissolved lead and cadmium by EPA Method 6020B.

Table 1. Groundwater Elevations, February 14, 2024

Well Location	Date Sampled	Top of Well Casing Elevation (ft)	Static Water Level Depth (ft)	Groundwater Elevation (ft)
MW-1	2/14/24	409.75	4.48	405.27
MW-2	2/14/24	410.20	4.99	405.21
MW-3	2/14/24	410.36	4.42	405.94
MW-4	2/14/24	409.50	3.51	405.99

GROUNDWATER MONITORING RESULTS

Groundwater samples were collected for analysis from the wells MW-1, MW-2, MW-3, and MW-4 on February 14, 2024. The February laboratory analytical results for the groundwater hydrocarbon compounds are listed in Tables 2 and 3 and the analytical results for total and dissolved metals are listed in Table 4. The laboratory report and Chain-of-Custody record for the February 14, 2024, sampling event are provided in Appendix B.

Diesel-range organic hydrocarbons (DRO) were detected in water samples from all monitoring wells and was slightly above MTCA Method A cleanup level for unrestricted land uses in MW-1, but were under the MTCA Method A cleanup level in MW-2, MW-3, and MW-4. Oil-range organic hydrocarbons were detected in the water sample from monitoring well MW-1 and was above the MTCA Method A Cleanup Level but were at non-detected concentrations in the remainder of the wells. Review of the analytical chromatograms also indicated that the material detected in the diesel and motor oil analyses were a poor match for the standard chromatogram for diesel and oil-range organics. This indicates that some level of biogenic interferences is present, the results are biased high, or they are potentially false positives. The

data was X qualified by the laboratory for this reason. Silica Gel Cleanup (SGC) was then conducted, which resulted in all non-detectable concentrations for diesel and oil-range hydrocarbons.

All VOCs (including BTEX, Table 3) and metals analyzed from each sample were at non-detected concentrations and below the MTCA Method A cleanup levels. Note that sample number KA-MW5-05 is a field duplicate (of MW-2) utilized for quality assurance purposes.

TABLE 2. Summary of Groundwater Total Petroleum Hydrocarbon Results
Payne Industrial Park, February 14, 2024

Sample No.	Sample Location	Date Sampled	NWTPH-Dx				NWTPH-Gx (µg/l)
			Diesel Range (µg/l)	Diesel Range (µg/l)	Oil Range (µg/l)	Oil Range (µg/l)	
KA-MW1-04	MW-1	2/14/24	740.x	<60.*	990.x	<300.*	<100.
KA-MW2-04	MW-2	2/14/24	160.x	<60.*	<300.	<300.*	<100.
KA-MW3-04	MW-3	2/14/24	250.x	<65.*	<320.	<320.*	<100.
KA-MW4-04	MW-4	2/14/24	180.x	<80.*	<400.	<400.*	<100.
KA-MW5-04	MW-2	2/14/24	62.x	<60.*	<300.	<300.*	<100.
MTCA Method A Cleanup Levels			**500.**	**500.**	**500.**	**500.**	**1,000.**

Notes:
Concentrations listed in micrograms per liter (µg/l), or parts per billion (ppb).
MTCA = the Model Toxics Control Act regulation and the regulations promulgated thereunder (Washington Administrative Code, Chapter 173-340).
* = Sample extracts were passed through a silica gel column prior to analysis.
k = The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

TABLE 3. Summary of Groundwater BTEX Results
Payne Industrial Park, February 14, 2024

Sample Number	Sample Location	Date Sampled	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)
KA-MW1-04	MW-1	2/14/24	<0.35.	<1.	<1.	<3.
KA-MW2-04	MW-2	2/14/24	<0.35.	<1.	<1.	<3.
KA-MW3-04	MW-3	2/14/24	<0.35.	<1.	<1.	<3.
KA-MW4-04	MW-4	2/14/24	<0.35.	<1.	<1.	<3.
KA-MW5-04	MW-2	2/14/24	<0.35.	<1.	<1.	<3.
MTCA Method A Cleanup Levels			**5.**	**1,000.**	**700.**	**1,000.**

Notes:
Concentrations listed in micrograms per liter (µg/l), or parts per billion (ppb).
MTCA = the Model Toxics Control Act regulation and the regulations promulgated thereunder (Washington Administrative Code, Chapter 173-340).

TABLE 4. Summary of Total and Dissolved Metals Results
Payne Industrial Park, February 14, 2024

Sample Number	Sample Location	Date Sampled	Total Metals		Dissolved Metals	
			Lead (µg/l)	Cadmium (µg/l)	Lead (µg/l)	Cadmium (µg/l)
KA-MW1-04	MW-1	2/14/24	<1.	<1.	<1.	<1.
KA-MW2-04	MW-2	2/14/24	<1.	<1.	<1.	<1.
KA-MW3-04	MW-3	2/14/24	<1.	<1.	<1.	<1.
KA-MW4-04	MW-4	2/14/24	<1.	<1.	<1.	<1.
KA-MW5-04	MW-2	2/14/24	<1.	<1.	<1.	<1.
MTCA Method A Cleanup Levels			**15.**	**10.**	**15.**	**10.**

Notes:
Concentrations listed in micrograms per liter (µg/l), or parts per billion (ppb).
MTCA = the Model Toxics Control Act regulation and the regulations promulgated thereunder (Washington Administrative Code, Chapter 173-340).

Data Quality Analyses

Friedman and Bruya Inc. of Seattle, Washington performed all analyses for this project. All samples were collected in accordance with the Quality Assurance specifications in the Sampling and Analysis Plan.

Samples were submitted under chain-of-custody procedures within 24 hours of collection, and no deviations from custody protocols were noted. Samples all arrived in good condition and at appropriate temperatures.

All sample holding times and quality control measures (matrix spikes/matrix spike duplicates, field duplicates etc.) were within control limits and run at the correct frequencies. Detection levels for all analyses met data quality objective requirements.

CONCLUSIONS

Diesel-range TPH was detected in water samples from all monitoring wells and was slightly above MTCA Method A cleanup level for unrestricted land uses in MW-1, but were under the MTCA Method A cleanup level in MW-2, MW-3, and MW-4. Oil-range organic hydrocarbons were detected in the water sample from monitoring well MW-1 and was above the MTCA Method A Cleanup Level, but were at non-detected concentrations in the remainder of the wells. Silica Gel Cleanup was also conducted, which resulted in all non-detectable concentrations for diesel and oil-range hydrocarbons in all wells, supporting our hypothesis that biogenic interferences or polar metabolites from diesel biodegradation may have been present, and that the results are biased high or even potentially false positives. All VOCs (including BTEX) and metals (lead and cadmium) analyzed from each well were at non-detected concentrations.

No further groundwater sampling is proposed at this time.

LIMITATIONS

The findings of this report were based upon the results of field and laboratory investigations, coupled with the interpretation of surface and subsurface conditions associated with our water samples. Therefore, the data are accurate only to the degree implied by review of the data obtained and by professional interpretation.

A laboratory certified by the State of Washington, Department of Ecology, did the analytical testing. The results of the chemical testing are accurate only to the degree of care of ensuring the testing accuracy and the representative nature of the water samples obtained.

The findings presented herewith are based on professional interpretation using state of the art methods and equipment and a degree of conservatism deemed proper as of this report date. It is not warranted that such data cannot be superseded by future geotechnical, environmental, or technical developments.

We appreciate the opportunity to be of service. If you have any questions, or if we can be of further assistance, please do not hesitate to contact our office.

Respectfully submitted,
Krazan & Associates, Inc.

Shawn E. Williams, L.G.
Regional Environmental Manager

2/28/24

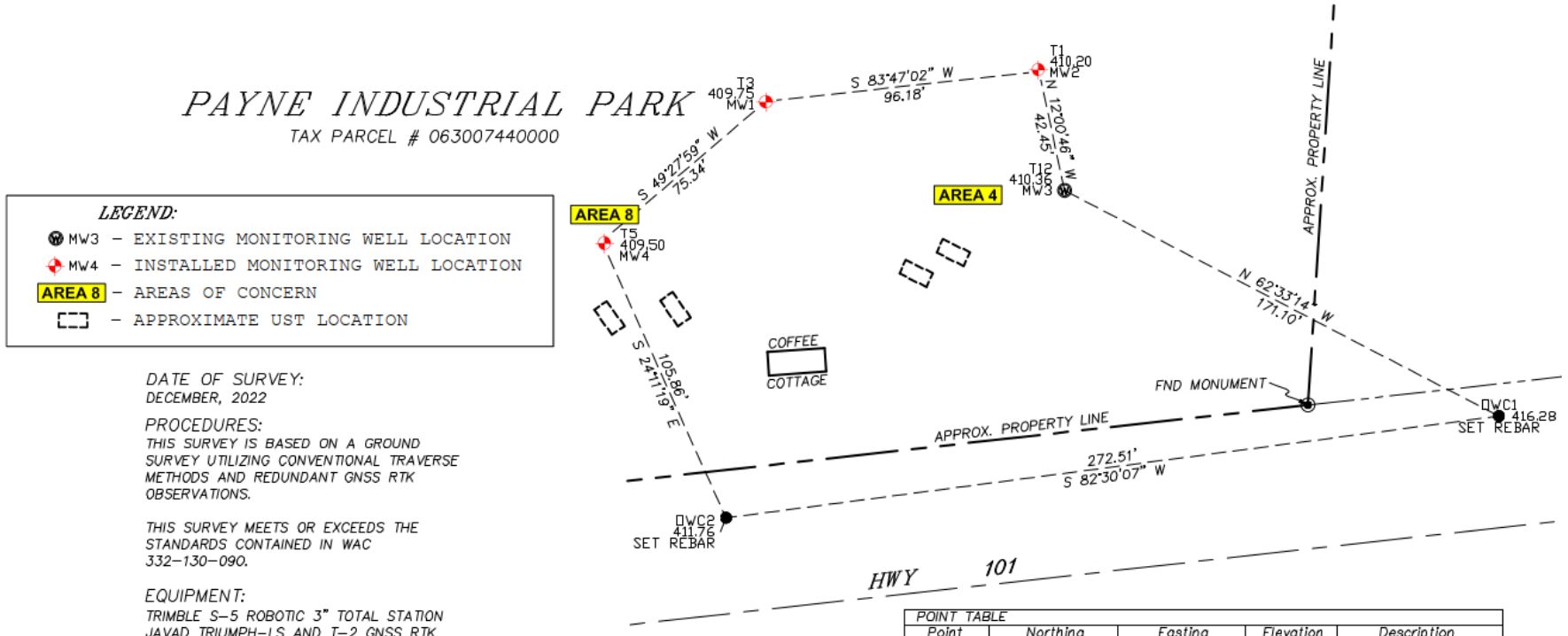
Attachments:
Figures
Appendix A. Water Sampling Logs
Appendix B. Certified Analytical Results and Chain-of-Custody Record

Source: Google Maps

Vicinity Map	**Scale:** NTS	**Date:** August-2023	Krazan **SITE DEVELOPMENT ENGINEERS** ***Conducting Assessments Nationwide***
Payne Industrial Park Groundwater Monitoring Report 1921 W Highway 101 Port Angeles, Washington	**Modified by:** AG	**Approved by:** SEW	
	Project No. 104-21030	**Figure No.** 1	

PAYNE INDUSTRIAL PARK

TAX PARCEL # 063007440000



DATE OF SURVEY:
DECEMBER, 2022

PROCEDURES:
THIS SURVEY IS BASED ON A GROUND SURVEY UTILIZING CONVENTIONAL TRAVERSE METHODS AND REDUNDANT GNSS RTK OBSERVATIONS.

THIS SURVEY MEETS OR EXCEEDS THE STANDARDS CONTAINED IN WAC 332–130–090.

EQUIPMENT:
TRIMBLE S–5 ROBOTIC 3" TOTAL STATION
JAVAD TRIUMPH–LS AND T–2 GNSS RTK RECEIVERS.

BASIS OF BEARINGS:
WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE, (NAD 83/91) AS DETERMINED FROM DIRECT GPS OBSERVATIONS.

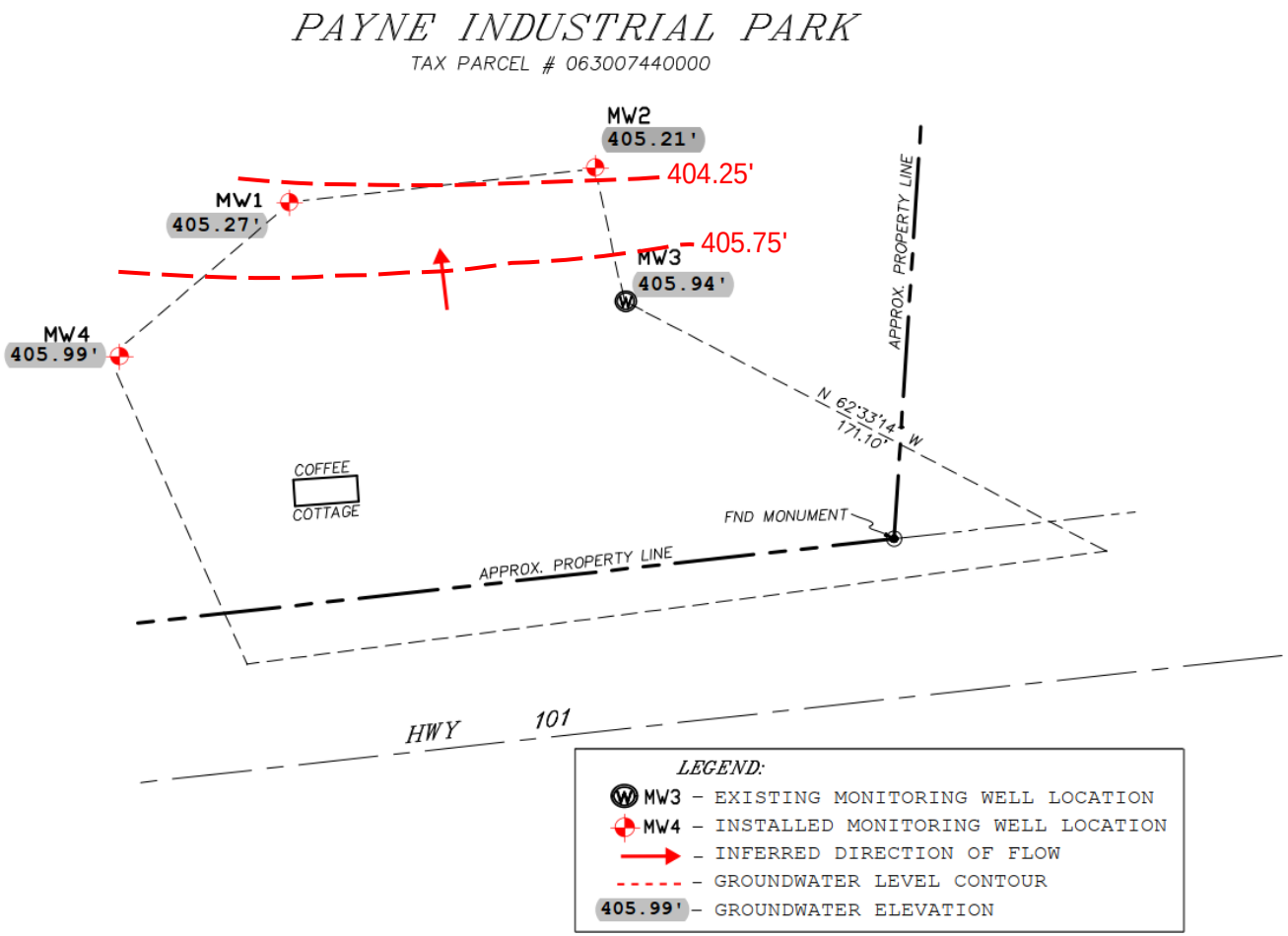
VERTICAL DATUM:
NAVD 88, BASED ON THE ABOVE CITED FIELD MEASUREMENTS.

POINT TABLE

Point	Northing	Easting	Elevation	Description
OWC1	414032.223	991883.782	416.28	SET REBAR
OWC2	413996.662	991613.601	411.76	SET REBAR
T1	414152.610	991723.101	410.20	WW/MW2
T3	414142.196	991627.488	409.75	WW/MW1
T5	414093.231	991570.225	409.50	WW/MW4
T12	414111.087	991731.937	410.36	WW/MW3

Reference: B. R. Lymangrover Land Surveying's "Sketch Showing Monitor Well Locations," dated 2022.

Site Map	**Scale:** NTS	**Date:** August-2023	Krazan **SITE DEVELOPMENT ENGINEERS** ***Conducting Assessments Nationwide***
Payne Industrial Park **Groundwater Monitoring Report** **1921 W Highway 101** **Port Angeles, Washington**	**Modified by:** EA	**Approved by:** SEW	
	Project No. 104-21030	**Figure No.** 2	



Reference: B. R. Lymangrover Land Surveying's "Sketch Showing Monitor Well Locations," dated December, 2022.

Water Table Contour Map	**Scale:** NTS	**Date:** February-2024	Krazan **SITE DEVELOPMENT ENGINEERS** ***Conducting Assessments Nationwide***
Payne Industrial Park Groundwater Monitoring Report 1921 W Highway 101 Port Angeles, Washington	**Modified by:** EA	**Approved by:** SEW	
	Project No. 104-21030	**Figure No.** 3	

Appendix A

Krazan

WATER SAMPLING LOG

Project Name: Payne Industrial Park Property Phase II Project Number: 104-21030

Sample Location: MW1 Inspector(s): EA Date/ Time: 2/14/24 10:50

Weather/ Temperature: 36 °F

Well Data

Diameter of Well Casing (inches): 2 Depth to Water Below Top of Casing (feet): 4.48

Total Depth of Well Below Top of Casing (feet): 20 Sampling/ Purge Method: Peristaltic pump

Calculate if well parameters do not stabilize per the work plan:

Length of Water Column in Well (feet): 15.52

Liters per Foot: 0.62 Liters in Well: 9.62 *1 Gallon = 3.79 Liters*

3 Times Casing Volume (liters): 28.87 Liters Purged from Well: ~3.8

Water Sample Data

Sample ID(s): KA-MW1-05 Time of Collection: 11:45

Remarks (Color/ Odor): none

Sheen on purge water? Yes (No) Stabilized? (Yes) No 3 Casing Volumes Removed? Yes (No)

Purge Volume	Time	Temperature	pH	Oxidation Reduction Potential	Conductivity	Turbidity	Dissolved Oxygen	Total Dissolved Solids	Depth to Water
(liters)	-	(°F)	(pH units)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)	(ft)
Criteria for three consecutive readings		±10%	±0.1 SU	±10 mV	±3%	±10% or <10 NTU	±10%	-	-
	11:20	50.8	6.68	291	0.894	0.0	10.40	0.573	
	11:25	52.8	6.20	181	0.889	0.0	7.42	0.569	
	11:30	52.9	6.21	170	0.893	0.0	6.41	0.571	
	11:35	52.8	6.36	161	0.893	0.0	5.49	0.571	
	11:40	52.7	6.39	158	0.890	0.0	5.61	0.570	

Notes: PID - 0.0 ppm

Well Casing Volumes

Liters/ Foot ½" = 0.04 1 to ¼" = 0.24 2" = 0.62 3" = 1.39 4" = 2.47
1 to ½" = 0.35 2 to ½" = 0.97 3 to ½" = 1.89 6" = 5.56

Krazan

WATER SAMPLING LOG

Project Name: Payne Industrial Park Property Phase II Project Number: 104-21630

Sample Location: MW2 Inspector(s): EA Date/ Time: 2/14/24 12:30

Weather/ Temperature: 36 °F

Well Data

Diameter of Well Casing (inches): 2" Depth to Water Below Top of Casing (feet): 4.99

Total Depth of Well Below Top of Casing (feet): 20 Sampling/ Purge Method: Peristaltic pump

Calculate if well parameters do not stabilize per the work plan:

Length of Water Column in Well (feet): 15.01

Liters per Foot: 0.162 Liters in Well: 9.31 *1 Gallon = 3.79 Liters*

3 Times Casing Volume (liters): 28.0 Liters Purged from Well: ~11.4

Water Sample Data

Sample ID(s): KA-MW2-05 & KA-MW5-05 Time of Collection: 13:05 / 13:15

Remarks (Color/ Odor): musty odor

Sheen on purge water? Yes (No) Stabilized? (Yes) No 3 Casing Volumes Removed? Yes (No)

Purge Volume	Time	Temperature	pH	Oxidation Reduction Potential	Conductivity	Turbidity	Dissolved Oxygen	Total Dissolved Solids	Depth to Water
(liters)	-	(°F)	(pH units)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)	(ft)
Criteria for three consecutive readings		±10%	±0.1 SU	±10 mV	±3%	±10% or <10 NTU	±10%	-	-
	12:35	50.5	6.53	318	0.256	204	9.20	0.167	
	12:40	52.6	5.59	341	0.256	121	6.08	0.167	
	12:45	52.6	5.49	337	0.257	113	5.25	0.167	
	12:50	52.5	5.50	331	0.255	84.4	5.19	0.166	
	12:55	52.3	5.49	328	0.252	30.7	5.17	0.164	
	13:00	52.0	5.50	326	0.251	39.3	5.19	0.163	

Notes: PID - 0.4 ppm. field duplicate taken (KA-MW5-05)

Well Casing Volumes

Liters/ Foot ½" = 0.04 1 to ¼" = 0.24 2" = 0.62 3" = 1.39 4" = 2.47

1 to ½" = 0.35 2 to ½" = 0.97 3 to ½" = 1.89 6" = 5.56

Krazan

WATER SAMPLING LOG

Project Name: Payne Industrial Park Property Phase II Project Number: 104-21030

Sample Location: MW3 Inspector(s): EA Date/ Time: 2/14/24 13:50

Weather/ Temperature: 36 °F

Well Data

Diameter of Well Casing (inches): 2 Depth to Water Below Top of Casing (feet): 4.42

Total Depth of Well Below Top of Casing (feet): 19.5 Sampling/ Purge Method: Peristaltic Pump

Calculate if well parameters do not stabilize per the work plan:

Length of Water Column in Well (feet): 15.08

Liters per Foot: 0.62 Liters in Well: 9.35 *1 Gallon = 3.79 Liters*

3 Times Casing Volume (liters): 28.04 Liters Purged from Well: ~11.4

Water Sample Data

Sample ID(s): KA - MW3 - 05 Time of Collection: 15:00

Remarks (Color/ Odor): none

Sheen on purge water? Yes (No) Stabilized? (Yes) No 3 Casing Volumes Removed? Yes (No)

Purge Volume	Time	Temperature	pH	Oxidation Reduction Potential	Conductivity	Turbidity	Dissolved Oxygen	Total Dissolved Solids	Depth to Water
(liters)	-	(°F)	(pH units)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)	(ft)
Criteria for three consecutive readings		±10%	±0.1 SU	±10 mV	±3%	±10% or <10 NTU	±10%	-	-
	14:00	51.6	5.88	124	0.433	64.6	7.52	0.282	
	14:05	52.5	5.72	122	0.433	49.5	7.50	0.282	
	14:10	52.7	5.77	114	0.440	21.4	5.49	0.286	
	14:15	52.7	5.93	102	0.442	21.4	5.97	0.287	
	14:20	52.7	5.98	99	0.443	39.6	5.33	0.288	
	14:25	52.7	6.01	98	0.446	65.3	5.41	0.290	
	14:30	52.7	6.04	98	0.453	101	5.46	0.295	
	14:35	52.7	6.05	100	0.458	137	5.28	0.298	
	14:40	52.8	6.07	102	0.472	195	5.20	0.307	
	14:45	52.8	6.07	106	0.483	287	5.11	0.314	
	14:50	52.9	6.08	109	0.487	327	5.06	0.317	
	14:55	52.9	6.09	115	0.489	323	5.00	0.318	

Notes: PID 0.0 ppm

Well Casing Volumes

Liters/ Foot ½" = 0.04 1 to ¼" = 0.24 2" = 0.62 3" = 1.39 4" = 2.47
1 to ½" = 0.35 2 to ½" = 0.97 3 to ½" = 1.89 6" = 5.56

Krazan

WATER SAMPLING LOG

Project Name: Payne Industrial Park Property Phase II Project Number: 104-21030

Sample Location: MW4 Inspector(s): EA Date/ Time: 2/14/24 9:20

Weather/ Temperature: 36°F

Well Data

Diameter of Well Casing (inches): 2" Depth to Water Below Top of Casing (feet): 3.51

Total Depth of Well Below Top of Casing (feet): 20 Sampling/ Purge Method: Peristaltic pump

Calculate if well parameters do not stabilize per the work plan:

Length of Water Column in Well (feet): 16.49

Liters per Foot: 0.62 Liters in Well: 10.22 *1 Gallon = 3.79 Liters*

3 Times Casing Volume (liters): 30.67 Liters Purged from Well: ~13.3

Water Sample Data

Sample ID(s): KA-MW4-05 Time of Collection: 10:20

Remarks (Color/ Odor): none

Sheen on purge water? Yes (No) Stabilized? (Yes) No 3 Casing Volumes Removed? Yes (No)

Purge Volume	Time	Temperature	pH	Oxidation Reduction Potential	Conductivity	Turbidity	Dissolved Oxygen	Total Dissolved Solids	Depth to Water
(liters)	-	(°F)	(pH units)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)	(ft)
Criteria for three consecutive readings		±10%	±0.1 SU	±10 mV	±3%	±10% or <10 NTU	±10%	-	-
	9:50	49.3	7.69	259	0.688	12.6	9.68	0.440	
	9:55	53.0	6.40	131	0.574	0.0	5.77	0.367	
	10:00	53.1	6.35	121	0.567	0.0	5.94	0.363	
	10:05	53.2	6.33	120	0.566	0.0	5.14	0.362	
	10:10	53.2	6.31	121	0.564	0.0	5.10	0.361	

Notes: MS/MSD taken for this well. PID - 1.3 ppm

Well Casing Volumes

Liters/ Foot ½" = 0.04 1 to ¼" = 0.24 2" = 0.62 3" = 1.39 4" = 2.47
1 to ½" = 0.35 2 to ½" = 0.97 3 to ½" = 1.89 6" = 5.56

Appendix B

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

February 21, 2024

Shawn Williams, Project Manager
Krazan & Associates (Poulsbo)
1230 Finn Hill Rd NW, Suite A
Poulsbo, WA 98370

Dear Mr Williams:

Included are the results from the testing of material submitted on February 16, 2024 from the Payne Industrial Park 104-21030, F&BI 402224 project. There are 31 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
KZP0221R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on February 16, 2024 by Friedman & Bruya, Inc. from the Krazan & Associates (Poulsbo) Payne Industrial Park 104-21030, F&BI 402224 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Krazan & Associates (Poulsbo)
402224 -01	KA-MW1-05
402224 -02	KA-MW2-05
402224 -03	KA-MW3-05
402224 -04	KA-MW4-05
402224 -05	KA-MW5-05
402224 -06	Trip Blank & Temp Blank

The 8260D calibration standard did not meet the acceptance criteria for several analytes. The data were flagged accordingly.

All other quality control requirements were acceptable.

Date of Report: 02/21/24
Date Received: 02/16/24
Project: Payne Industrial Park 104-21030, F&BI 402224
Date Extracted: 02/19/24
Date Analyzed: 02/19/24

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
KA-MW1-05 402224-01	<100	102
KA-MW2-05 402224-02	<100	97
KA-MW3-05 402224-03	<100	97
KA-MW4-05 402224-04	<100	98
KA-MW5-05 402224-05	<100	97
Method Blank 04-218 MB	<100	96

Date of Report: 02/21/24
Date Received: 02/16/24
Project: Payne Industrial Park 104-21030, F&BI 402224
Date Extracted: 02/19/24
Date Analyzed: 02/19/24

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES USING EPA METHOD 8021B

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Surrogate (% Recovery) Limit (50-150)
Trip Blank & Temp Blank 402224-06	<1	<1	<1	<3	77
Method Blank 04-218 MB	<1	<1	<1	<3	80

Date of Report: 02/21/24
Date Received: 02/16/24
Project: Payne Industrial Park 104-21030, F&BI 402224
Date Extracted: 02/19/24
Date Analyzed: 02/19/24

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
KA-MW1-05 402224-01 1/1.2	<60	<300	142
KA-MW2-05 402224-02 1/1.2	<60	<300	135
KA-MW3-05 402224-03 1/1.3	<65	<320	128
KA-MW4-05 402224-04 1/1.6	<80	<400	127
KA-MW5-05 402224-05 1/1.2	<60	<300	130
Method Blank 04-360 MB	<50	<250	126

Date of Report: 02/21/24
Date Received: 02/16/24
Project: Payne Industrial Park 104-21030, F&BI 402224
Date Extracted: 02/19/24
Date Analyzed: 02/19/24

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
KA-MW1-05 402224-01 1/1.2	740 x	990 x	151
KA-MW2-05 402224-02 1/1.2	160 x	<300	119
KA-MW3-05 402224-03 1/1.3	250 x	<320	115
KA-MW4-05 402224-04 1/1.6	180 x	<400	129
KA-MW5-05 402224-05 1/1.2	62 x	<300	132
Method Blank 04-360 MB	<50	<250	114

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	KA-MW1-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-01
Date Analyzed:	02/16/24	Data File:	402224-01.068
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	KA-MW2-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-02
Date Analyzed:	02/16/24	Data File:	402224-02.069
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	KA-MW3-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-03
Date Analyzed:	02/16/24	Data File:	402224-03.070
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	KA-MW4-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-04
Date Analyzed:	02/16/24	Data File:	402224-04.083
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	KA-MW5-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-05
Date Analyzed:	02/16/24	Data File:	402224-05.086
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Krazan & Associates (Poulsbo)
Date Received:	NA	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	I4-123 mb
Date Analyzed:	02/16/24	Data File:	I4-123 mb.064
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	KA-MW1-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-01
Date Analyzed:	02/16/24	Data File:	402224-01.071
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	KA-MW2-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-02
Date Analyzed:	02/16/24	Data File:	402224-02.072
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	KA-MW3-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-03
Date Analyzed:	02/16/24	Data File:	402224-03.091
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	KA-MW4-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-04
Date Analyzed:	02/16/24	Data File:	402224-04.092
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	KA-MW5-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-05
Date Analyzed:	02/16/24	Data File:	402224-05.095
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Krazan & Associates (Poulsbo)
Date Received:	NA	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	I4-124 mb
Date Analyzed:	02/16/24	Data File:	I4-124 mb.066
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Cadmium	<1
Lead	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	KA-MW1-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-01
Date Analyzed:	02/16/24	Data File:	021621.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	108	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1 ca	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1 ca	Ethylbenzene	<1
Acetone	<50 ca	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5 ca
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1 ca
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	KA-MW2-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-02
Date Analyzed:	02/16/24	Data File:	021622.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	71	132
Toluene-d8	95	68	139
4-Bromofluorobenzene	108	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1 ca	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1 ca	Ethylbenzene	<1
Acetone	<50 ca	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5 ca
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1 ca
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	KA-MW3-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-03
Date Analyzed:	02/16/24	Data File:	021623.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	71	132
Toluene-d8	103	68	139
4-Bromofluorobenzene	107	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1 ca	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1 ca	Ethylbenzene	<1
Acetone	<50 ca	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5 ca
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1 ca
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	KA-MW4-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-04
Date Analyzed:	02/16/24	Data File:	021624.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	108	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1 ca	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1 ca	Ethylbenzene	<1
Acetone	<50 ca	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5 ca
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1 ca
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	KA-MW5-05	Client:	Krazan & Associates (Poulsbo)
Date Received:	02/16/24	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	402224-05
Date Analyzed:	02/16/24	Data File:	021625.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	111	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1 ca	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1 ca	Ethylbenzene	<1
Acetone	<50 ca	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5 ca
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1 ca
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Krazan & Associates (Poulsbo)
Date Received:	Not Applicable	Project:	Payne Industrial Park 104-21030
Date Extracted:	02/16/24	Lab ID:	04-0443 mb
Date Analyzed:	02/16/24	Data File:	021608.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	71	132
Toluene-d8	99	68	139
4-Bromofluorobenzene	108	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1 ca	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1 ca	Ethylbenzene	<1
Acetone	<50 ca	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5 ca
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1 ca
2-Hexanone	<10		

Date of Report: 02/21/24
Date Received: 02/16/24
Project: Payne Industrial Park 104-21030, F&BI 402224

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 402224-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	ug/L (ppb)	50	<1	88	92	50-150	4
Toluene	ug/L (ppb)	50	<1	82	87	50-150	6
Ethylbenzene	ug/L (ppb)	50	<1	77	82	50-150	6
Xylenes	ug/L (ppb)	150	<3	75	81	50-150	8
Gasoline	ug/L (ppb)	1,000	<100	98	96	50-150	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	104	70-130
Toluene	ug/L (ppb)	50	96	70-130
Ethylbenzene	ug/L (ppb)	50	90	70-130
Xylenes	ug/L (ppb)	150	87	70-130
Gasoline	ug/L (ppb)	1,000	100	70-130

Date of Report: 02/21/24
Date Received: 02/16/24
Project: Payne Industrial Park 104-21030, F&BI 402224

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 402224-04 (Matrix Spike) Silica Gel

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	<50	124	120	50-150	3

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	104	104	72-139	0

Date of Report: 02/21/24
Date Received: 02/16/24
Project: Payne Industrial Park 104-21030, F&BI 402224

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 402224-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	<50	112	120	50-150	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	100	100	65-151	0

Date of Report: 02/21/24
Date Received: 02/16/24
Project: Payne Industrial Park 104-21030, F&BI 402224

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 6020B

Laboratory Code: 402224-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Cadmium	ug/L (ppb)	5	<1	97	94	75-125	3
Lead	ug/L (ppb)	10	<1	86	86	75-125	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Cadmium	ug/L (ppb)	5	97	80-120
Lead	ug/L (ppb)	10	97	80-120

Date of Report: 02/21/24
Date Received: 02/16/24
Project: Payne Industrial Park 104-21030, F&BI 402224

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 402224-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Cadmium	ug/L (ppb)	5	<1	98	95	75-125	3
Lead	ug/L (ppb)	10	<1	88	88	75-125	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Cadmium	ug/L (ppb)	5	97	80-120
Lead	ug/L (ppb)	10	97	80-120

Date of Report: 02/21/24
Date Received: 02/16/24
Project: Payne Industrial Park 104-21030, F&BI 402224

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 402224-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	<1	82	84	27-164	2
Chloromethane	ug/L (ppb)	10	<10	92	90	34-141	2
Vinyl chloride	ug/L (ppb)	10	<0.02	92	100	16-176	8
Bromomethane	ug/L (ppb)	10	<5	95	87	10-193	9
Chloroethane	ug/L (ppb)	10	<1	97	98	50-150	1
Trichlorofluoromethane	ug/L (ppb)	10	<1	86	93	50-150	8
Acetone	ug/L (ppb)	50	<50	43	50	15-179	15
1,1-Dichloroethene	ug/L (ppb)	10	<1	94	95	50-150	1
Hexane	ug/L (ppb)	10	<5	95	108	49-161	13
Methylene chloride	ug/L (ppb)	10	<5	91	90	40-143	1
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	94	94	50-150	0
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	95	96	50-150	1
1,1-Dichloroethane	ug/L (ppb)	10	<1	95	95	50-150	0
2,2-Dichloropropane	ug/L (ppb)	10	<1	91	90	62-152	1
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	97	97	50-150	0
Chloroform	ug/L (ppb)	10	<1	91	92	50-150	1
2-Butanone (MEK)	ug/L (ppb)	50	<20	72	71	34-168	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	88	89	50-150	1
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	92	93	50-150	1
1,1-Dichloropropene	ug/L (ppb)	10	<1	92	93	50-150	1
Carbon tetrachloride	ug/L (ppb)	10	<0.5	95	95	50-150	0
Benzene	ug/L (ppb)	10	<0.35	96	97	50-150	1
Trichloroethene	ug/L (ppb)	10	<0.5	92	92	43-133	0
1,2-Dichloropropane	ug/L (ppb)	10	<1	92	91	50-150	1
Bromodichloromethane	ug/L (ppb)	10	<0.5	89	92	50-150	3
Dibromomethane	ug/L (ppb)	10	<1	91	91	50-150	0
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	93	95	50-150	2
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	90	92	48-145	2
Toluene	ug/L (ppb)	10	<1	105	107	50-150	2
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	95	97	37-152	2
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	104	105	50-150	1
2-Hexanone	ug/L (ppb)	50	<10	96	98	50-150	2
1,3-Dichloropropane	ug/L (ppb)	10	<1	102	101	50-150	1
Tetrachloroethene	ug/L (ppb)	10	<1	101	102	50-150	1
Dibromochloromethane	ug/L (ppb)	10	<0.5	96	95	33-164	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<0.01	102	103	50-150	1
Chlorobenzene	ug/L (ppb)	10	<1	101	103	50-150	2
Ethylbenzene	ug/L (ppb)	10	<1	105	106	50-150	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	101	100	50-150	1
m,p-Xylene	ug/L (ppb)	20	<2	105	105	50-150	0
o-Xylene	ug/L (ppb)	10	<1	102	103	50-150	1
Styrene	ug/L (ppb)	10	<1	101	102	50-150	1
Isopropylbenzene	ug/L (ppb)	10	<1	95	97	50-150	2
Bromoform	ug/L (ppb)	10	<5	91	94	23-161	3
n-Propylbenzene	ug/L (ppb)	10	<1	107	105	50-150	2
Bromobenzene	ug/L (ppb)	10	<1	104	101	50-150	3
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	103	101	50-150	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	117	114	57-162	3
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	109	108	33-151	1
2-Chlorotoluene	ug/L (ppb)	10	<1	107	106	50-150	1
4-Chlorotoluene	ug/L (ppb)	10	<1	105	104	50-150	1
tert-Butylbenzene	ug/L (ppb)	10	<1	103	100	50-150	3
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	101	101	50-150	0
sec-Butylbenzene	ug/L (ppb)	10	<1	101	99	46-139	2
p-Isopropyltoluene	ug/L (ppb)	10	<1	101	99	46-140	2
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	100	99	50-150	1
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	100	102	50-150	2
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	99	98	50-150	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	97	96	50-150	1
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	84	85	50-150	1
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	85	84	42-150	1
Naphthalene	ug/L (ppb)	10	<1	90	91	50-150	1
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	80	80	44-155	0

Date of Report: 02/21/24
Date Received: 02/16/24
Project: Payne Industrial Park 104-21030, F&BI 402224

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	93	86	49-149	8
Chloromethane	ug/L (ppb)	10	96	87	34-143	10
Vinyl chloride	ug/L (ppb)	10	112	103	43-149	8
Bromomethane	ug/L (ppb)	10	119	100	28-182	17
Chloroethane	ug/L (ppb)	10	104	96	59-157	8
Trichlorofluoromethane	ug/L (ppb)	10	98	96	59-141	2
Acetone	ug/L (ppb)	50	47	43	20-139	9
1,1-Dichloroethene	ug/L (ppb)	10	100	91	67-138	9
Hexane	ug/L (ppb)	10	106	105	50-161	1
Methylene chloride	ug/L (ppb)	10	93	87	29-192	7
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	102	94	70-130	8
trans-1,2-Dichloroethene	ug/L (ppb)	10	103	93	70-130	10
1,1-Dichloroethane	ug/L (ppb)	10	102	93	70-130	9
2,2-Dichloropropane	ug/L (ppb)	10	117	107	71-148	9
cis-1,2-Dichloroethene	ug/L (ppb)	10	104	94	70-130	10
Chloroform	ug/L (ppb)	10	99	89	70-130	11
2-Butanone (MEK)	ug/L (ppb)	50	77	72	50-157	7
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	96	90	70-130	6
1,1,1-Trichloroethane	ug/L (ppb)	10	100	94	70-130	6
1,1-Dichloropropene	ug/L (ppb)	10	99	91	70-130	8
Carbon tetrachloride	ug/L (ppb)	10	103	97	70-130	6
Benzene	ug/L (ppb)	10	102	91	70-130	11
Trichloroethene	ug/L (ppb)	10	99	89	70-130	11
1,2-Dichloropropane	ug/L (ppb)	10	97	87	70-130	11
Bromodichloromethane	ug/L (ppb)	10	97	90	70-130	7
Dibromomethane	ug/L (ppb)	10	95	88	70-130	8
4-Methyl-2-pentanone	ug/L (ppb)	50	93	89	70-130	4
cis-1,3-Dichloropropene	ug/L (ppb)	10	100	91	70-130	9
Toluene	ug/L (ppb)	10	105	105	70-130	0
trans-1,3-Dichloropropene	ug/L (ppb)	10	98	96	70-130	2
1,1,2-Trichloroethane	ug/L (ppb)	10	100	102	70-130	2
2-Hexanone	ug/L (ppb)	50	90	93	66-132	3
1,3-Dichloropropane	ug/L (ppb)	10	97	98	70-130	1
Tetrachloroethene	ug/L (ppb)	10	102	104	70-130	2
Dibromochloromethane	ug/L (ppb)	10	96	93	63-142	3
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	99	99	70-130	0
Chlorobenzene	ug/L (ppb)	10	99	97	70-130	2
Ethylbenzene	ug/L (ppb)	10	103	102	70-130	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	99	99	70-130	0
m,p-Xylene	ug/L (ppb)	20	103	101	70-130	2
o-Xylene	ug/L (ppb)	10	101	99	70-130	2
Styrene	ug/L (ppb)	10	99	95	70-130	4
Isopropylbenzene	ug/L (ppb)	10	96	95	70-130	1
Bromoform	ug/L (ppb)	10	94	93	50-157	1
n-Propylbenzene	ug/L (ppb)	10	106	98	70-130	8
Bromobenzene	ug/L (ppb)	10	102	96	70-130	6
1,3,5-Trimethylbenzene	ug/L (ppb)	10	105	97	52-150	8
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	111	105	75-140	6
1,2,3-Trichloropropane	ug/L (ppb)	10	106	102	40-153	4
2-Chlorotoluene	ug/L (ppb)	10	105	97	70-130	8
4-Chlorotoluene	ug/L (ppb)	10	104	99	70-130	5
tert-Butylbenzene	ug/L (ppb)	10	102	95	70-130	7
1,2,4-Trimethylbenzene	ug/L (ppb)	10	102	95	70-130	7
sec-Butylbenzene	ug/L (ppb)	10	102	95	70-130	7
p-Isopropyltoluene	ug/L (ppb)	10	102	93	70-130	9
1,3-Dichlorobenzene	ug/L (ppb)	10	101	94	70-130	7
1,4-Dichlorobenzene	ug/L (ppb)	10	101	96	70-130	5
1,2-Dichlorobenzene	ug/L (ppb)	10	101	92	70-130	9
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	96	89	70-130	8
1,2,4-Trichlorobenzene	ug/L (ppb)	10	87	78	70-130	11
Hexachlorobutadiene	ug/L (ppb)	10	89	78	70-130	13
Naphthalene	ug/L (ppb)	10	88	80	61-133	10
1,2,3-Trichlorobenzene	ug/L (ppb)	10	80	72	69-143	11

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

402224

SAMPLE CHAIN OF CUSTODY

02/16/24

K4/VW2/F3

Page # 1 of 1

Report To Shawn Williams

Company Krazan & Associates

Address 1230 NW Finn Hill Rd, Ste. A

City, State, ZIP Poulsbo, WA. 98370

Phone 360-598-2126 Email ShawnWilliams@krazan.com

SAMPLERS (*signature*)

PROJECT NAME: Payne Industrial Park

PO #: 104-21030

REMARKS: Project specific RLs? - Yes / No

INVOICE TO: Krazan

TURNAROUND TIME
- ☒ Standard turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Archive samples
- ☐ Other
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Total Lead & Cadmium	Dissolved Lead & Cadmium	Silica Gel		Notes
KA-MW1-05	01 A-F	2/14/24	11:45	water	6	X	X	X		X			X	X	X		* All 250 mL polys were field filtered
KA-MW2-05	02		13:05			X	X	X		X			X	X	X		
KA-MW3-05	03		15:00			X	X	X		X			X	X	X		
KA-MW4-05	04 A-R		10:20		18	X	X	X		X			X	X	X		+ MS/MSD
KA-MW5-05	05 A-F		13:15		6	X	X	X		X			X	X	X		
Trip Blank & Temp Blank	06 A-B	—	—		2			X									—
							Samples received at 2 °C										

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Erliana Acob	Krazan & Associates	2/15/24	8:30
Received by:	ANH PHAN	FSB	02/16/24	08:54
Relinquished by:				
Received by:				

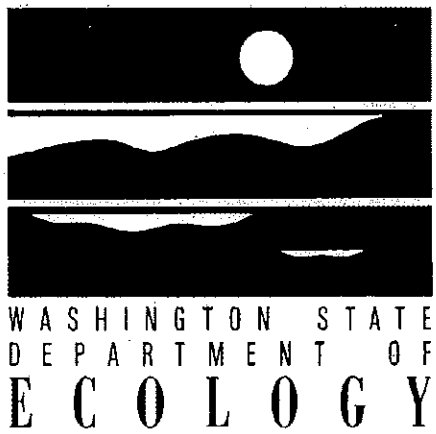
Friedman & Bruya, Inc.
Ph. (206) 285-8282

FORMERLY USED DEFENSE SITE

PORT ANGELES ARMY AIR FIELD

WASHINGTON STATE DEPARTMENT OF ECOLOGY

MAY 5, 1999



Prepared by Guy Barrett, Toxics Cleanup Program

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B. EXECUTIVE SUMMARY

C. SAMPLING LOCATIONS

D. SITE MAPS AND PHOTOS

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H LABORATORY RESULTS

I. CONCLUSIONS

Initial Investigation at the Formerly Used Defense Site
Port Angeles Army Air Field

A. Introduction

The Washington State Department of Ecology (Ecology) Toxics Cleanup Program has decided to perform initial investigations, including sampling, at ten Formerly Used Defense Sites (FUDS) in Washington State which have previously been classified as requiring No Further Action (NOFA) by the Seattle District Corps of Engineers. The FUDS Port Angeles Army Air Field is one of these sites.

The subject site, former Port Angeles Army Airfield, is located near Port Angeles, Clallam County, Washington, in Sections 5, 6, 7, and 8, Township 30 North, Range 6 West, and Section 1, Township 30 North, Range 7 West, Willamette Meridian. The Department of the Army acquired the existing Port Angeles Airport and certain adjacent properties in 1943-1944. A total of 741.10 acres were acquired. The facility was transferred to the Department of the Navy on July 4, 1944. The Port Angeles Army Airfield operated as a satellite to McChord Field (now McChord Air Force Base). The installation supported a squadron of P-38 Lightening fighter aircraft. Military personnel using these facilities numbered 34 during the period of 1943-1944.

The fee acres of the property were conveyed to Clallam County by quitclaim deed on May 24, 1948, under the provisions of the Surplus Property Act of 1944. As a condition of this conveyance, the County and its successors agreed to use the airport property (land, buildings, improvements) for public purposes, maintain the airport facilities, and adequately clear and protect approach areas.

The Model Toxics Control Act, (MTCA) Ch. 70.105D RCW, authorizes Ecology to adopt rules necessary to identify, investigate, and clean up hazardous waste sites in Washington State. The regulation Ecology has adopted, Ch. 173-340 WAC, clarifies the roles of both Ecology and owners or operators of facilities where hazardous substances have come to be located, and encourages public involvement in the decision-making at these facilities.

B. Executive Summary

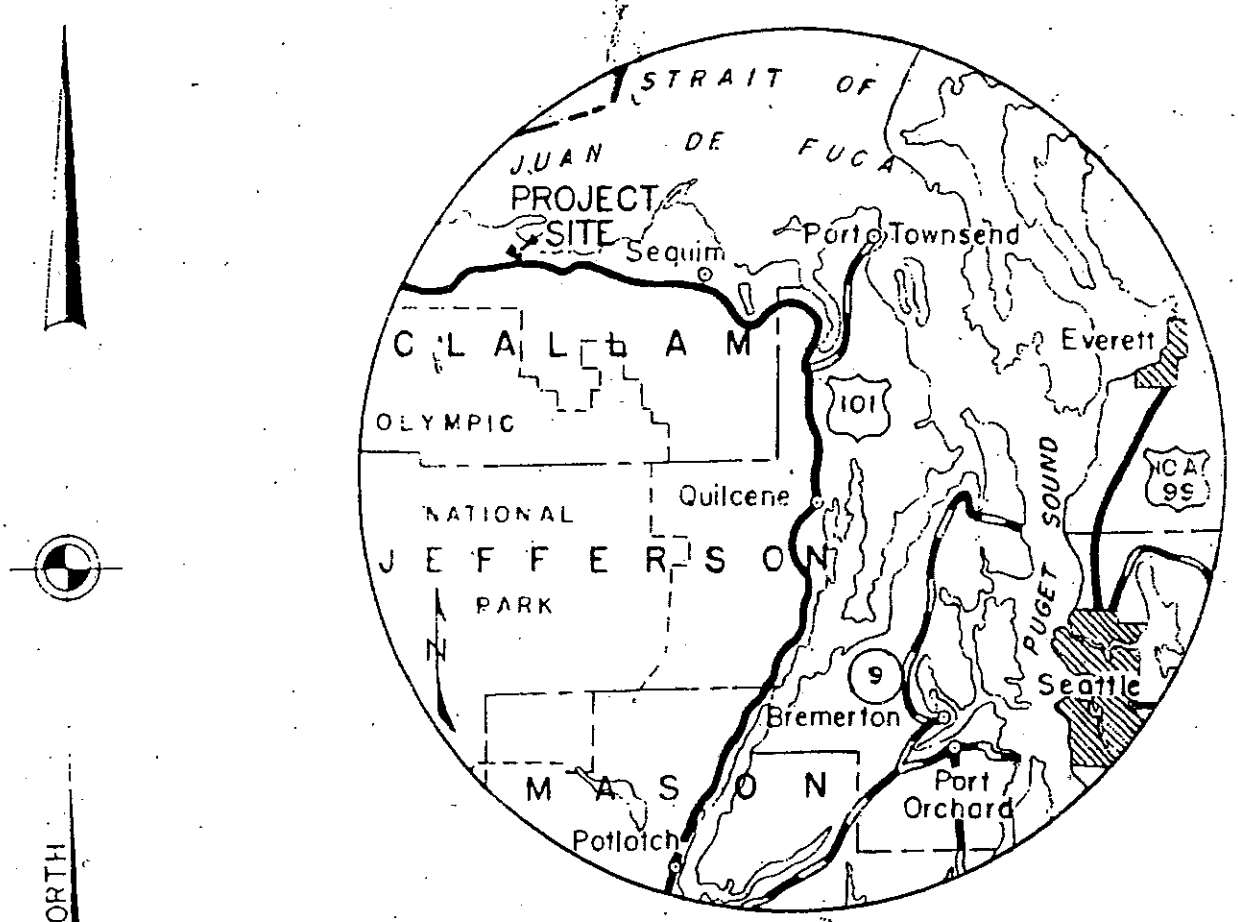
Ecology's investigation is designed to confirm or deny the presence of potential soil and groundwater contamination resulting from past Department of Defense practices. The overall goal of the proposed investigation is to determine the need for additional investigation or to support the belief that no further investigation or cleanup activity is warranted

The original site is located near Port Angeles in Clallam County, Washington in Sections 5, 6, 7, and 8, Township 30 North, Ranges 7 West, Willamette Meridian (Figure 1). The Department of the Army acquired 741.1 acres including the existing Port Angeles Airport and certain adjacent properties in 1943-1944. The fee acres of the property were conveyed to Clallam County by quitclaim deed on May 24, 1948, under the provisions of the Surplus Property Act of 1944.

Ecology obtained samples on May 5, 1999 at only a few select locations in upland soil. Based on analysis of the soil samples, Ecology found that contaminants are present which exceed cleanup levels. Lubricating oil and lead were found exceeding state cleanup levels.

C. Sampling Locations

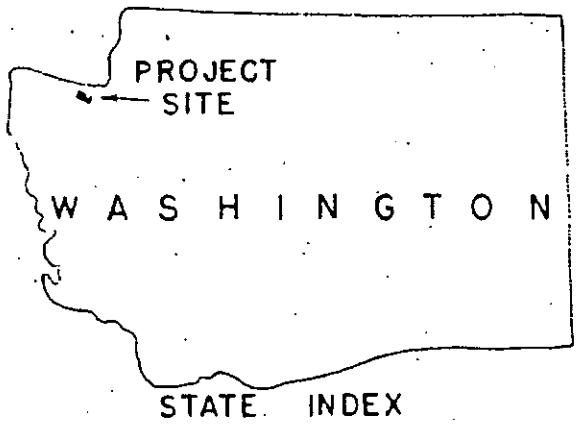
Mr. Kenneth Sweeney, Port of Port Angeles Planning & Environmental Manager, described locations of potential sources of contamination that had not been beneficially used at this site, at least to his knowledge, since DOD vacated the property. Following this, an inspection of the buildings and undeveloped areas allowed Ecology to refine sampling locations. A general layout of the Port Angeles Army Air Field site is provided with sampling locations identified (Figure 2). At each sample location, soil was collected from a depth interval of 0 to 2 inches with clean, stainless steel spoons and placed in pre-cleaned sample jars provided by Manchester Laboratory. Sample containers were labeled at the time of sampling with the project name, sampler's initials, sample location and depth, analysis to be performed, date, and time Samples were transferred with a completed chain of custody form to the Manchester Laboratory including sample identification, sampler's signature, date and time of sample collection, sample matrix, signatures of others in the chain of possession, and inclusive dates of possession. Sampling equipment that was not disposable was decontaminated by scrubbing and rinsing with distilled/deionized water. Sampling activities were documented in a field logbook. Samples were shipped to the lab in a cooler cooled to 4 degrees Celsius with ice and in a manner to ensure that holding times were not exceeded.



VICINITY MAP

MILES

0 5 10 20 30



STATE INDEX

Figure 1

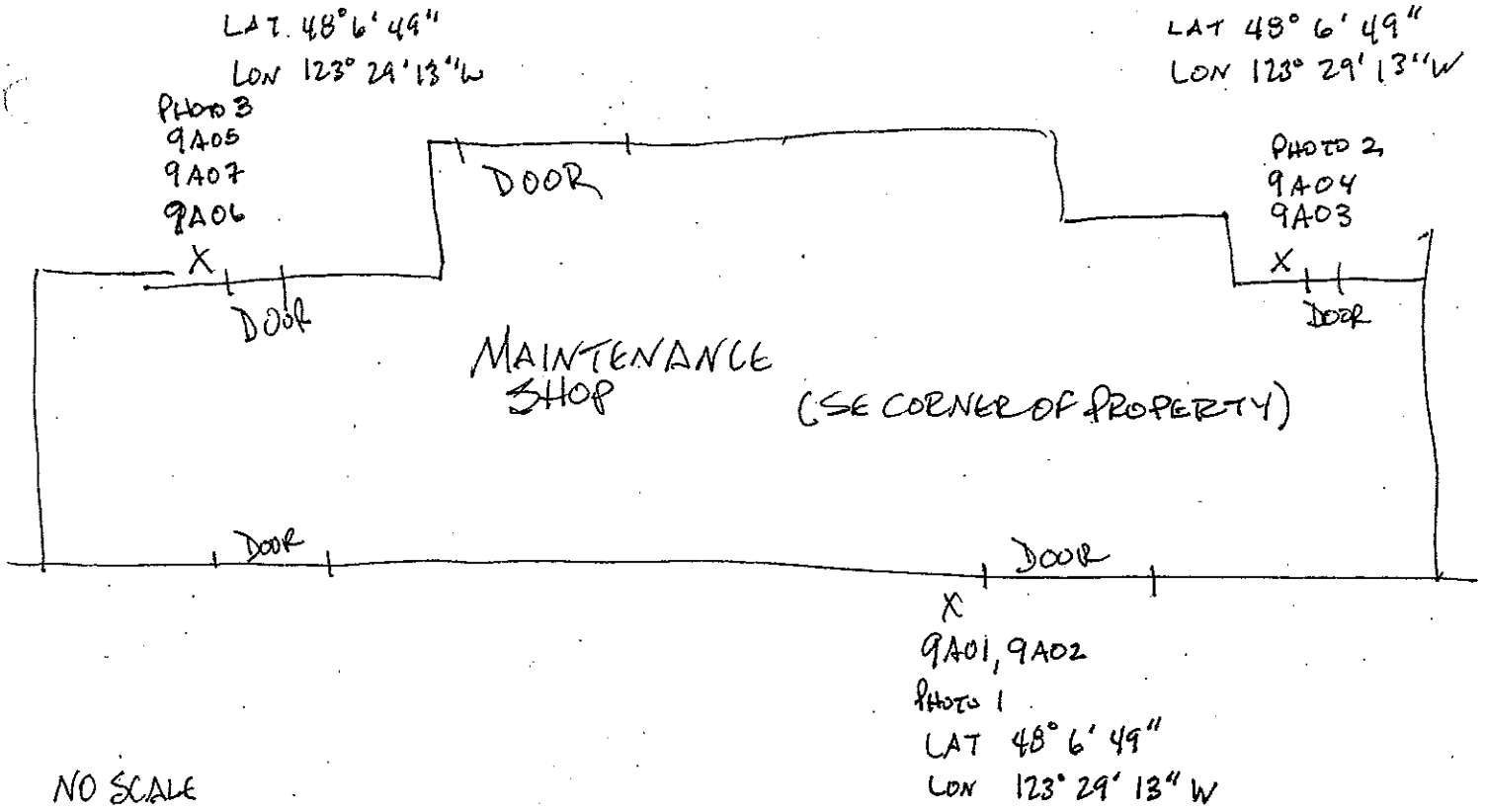


PHOTO 7 - NE SECTION OF PROPERTY
PHOTO 8. HANGAR
PHOTO 9 - HANGAR
PHOTO 10 - HANGAR

Figure 2

Site Access

Guy Barrett, FUDS Project Manager, contacted Mr. Phil Volk on April 14, 1999 to make arrangements for site access. Mr. Volk stated that the Department of Ecology was granted access to the Formerly Used Defense Site Port Angeles Army Air Field for the purpose of performing an initial investigation. Mr. Volk's telephone number is (360) 457-1138.

Applied Geotechnology Inc.

August 31, 1988

14,887.101

Ms. Nancy Walker
Shapiro & Associates, Inc.
506 Second Avenue
1400 Smith Tower
Seattle, Washington 98104

Dear Nancy:

Site Visit Report
Port Angeles Army Airfield

This letter summarizes our site visit to the Port Angeles Army Airfield in Port Angeles, Washington. Susan Penoyar, AGI project engineer, visited the site on August 18, 1988, with you and Cliff Lee of Shapiro & Associates, Inc. After speaking with Ken Sweeney at the Port of Port Angeles Administration Building, we toured the site with Dennis Ingram, the Port of Port Angeles Maintenance Supervisor. The following information was observed or acquired during our site visit.

Site History

In 1942, the War Department proclaimed there was a "military necessity for acquisition of land" to expand the existing airport in Port Angeles as a satellite field for McChord Air Force Base. Occupancy was transferred to the U.S. Navy in 1944. A 1948 Quitclaim deed gave the land to Clallam County. In 1951, the Port of Port Angeles acquired the airport from Clallam County. The Port of Port Angeles presently owns the property.

Structural Debris

Buildings

Two buildings present in 1948 remain on the airfield. One building, listed as P-23 in the 1948 Quitclaim deed, is located on the southeast portion of the airport property. The one-story wood frame building is approximately 100 feet by 20 feet in dimension. It has a wood floor over a crawl space and presently has a composite roof. The foundation is probably shallow spread footings. The structure is now used as a shop building, and does not present any apparent hazards related to DOD occupation.

The main airport terminal includes an approximately 75-foot by 50-foot hangar which was constructed prior to 1948. This wood-frame hangar is probably founded on shallow spread footings. A 25-foot by 25-foot one-story maintenance shop also remains attached to the west. These structures have tar and composite roofs and are both presently used by the airport. There is no apparent hazard related to DOD occupation.

Revetments

Several Department of Defense "revetments" still exist on the north side of the airport. These spurs off of the taxiway were reportedly used as stations to tie down and camouflage P-38 fighter planes. They presently are still asphalt paved and most are unused except occasionally for storage. Tie down bolts were noted on one revetment. These revetments present no apparent hazards related to DOD occupation.

Underground Fuel Tanks

Dennis Ingram reported that four 25,000-gallon tanks were indicated on plans of the area from the time of Department of Defense occupation. The Quit-claim deed from 1948 identifies these tanks as buried tanks. Two tanks were indicated in the northeast portion of the airport. This area has been extensively graded and developed since 1948, but the tanks have not been exposed. Three-inch galvanized fuel lines were unearthed in the area and appeared to be laid between the old taxiway and the reported tank locations. Dennis Ingram has not seen any evidence of these tanks in his 20-plus years as maintenance director. There is presently no indication of buried tanks in the area.

The second set of tanks were reported to be located between two revetments. Dennis reported that he had, many years ago, seen the remains of a concrete "vault with valves" in the approximate area where these tanks were to have been located. Dennis has never seen these tanks either. We were unable to locate the remains of the concrete vault due to thick vegetation in the reported tank area. We did locate a 1-1/2-inch diameter, thick-walled, steel pipe with several wooden stakes around it sticking up approximately 2-1/2 feet out of the ground. The significance of this pipe was not established. We found no evidence of the reported tanks.

It is possible that the reported tanks could have leaked fuel and contaminated groundwater, which would constitute a potential hazardous waste. The existence of reported tanks may be further evaluated through one of the following surface geophysical methods: metal detector, magnetometer, or ground penetrating radar. An aerial photograph review covering the 1940's to 1960's may also provide information.

Ordnance

No evidence of ordnance was reported or noted.

Hazardous or Toxic Waste

The reported 25,000 gallon tanks could potentially have leaked fuel which could be considered hazardous or toxic waste. Details of these tanks are discussed above.

Summary

The structures remaining from DOD occupation are presently used by the Port of Port Angeles and present no apparent hazards. No ordnance hazard was noted. Buried tanks could potentially present a hazardous or toxic waste problem if they leaked.

It is a pleasure to work with you on this interesting project. If you have any concerns regarding this letter, please call.

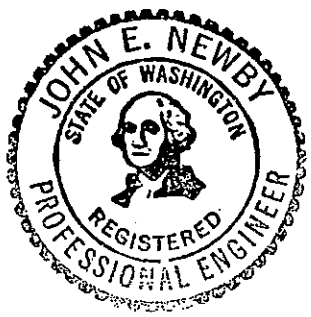
Yours very truly,

APPLIED GEOTECHNOLOGY INC.

Susan J. Penoyar
Project Engineer

John E. Newby, P.E.
President

SJP/JEN/tag



DEPARTMENT OF THE ARMY
NORTH PACIFIC DIVISION, CORPS OF ENGINEERS
P.O. BOX 2870
PORTLAND, OREGON 97208-2870

REPLY TO
ATTENTION OF:

June 23, 1989

Technical Engineering
Branch

SUBJECT: Port Angeles Army Air Field Site
PN: F10WA040100

Mr. William Conley
Manager
William R. Fairchild
International Airport
Post Office Box 1350
Port Angeles, Washington 98362

Dear Mr. Conley:

This letter is to notify you that the Port Angeles Army Air Field Site has been determined to be ineligible for restoration under the Defense Environmental Restoration Program for formerly-used sites. Our review indicated that this site does not contain any remnants from the Department of Defense use which would qualify for cleanup or restoration under the Defense Environmental Restoration Program.

The above determination is based on the 1984 Defense Authorization Act, the 1987 Superfund Amendment and Reauthorization Act, and other legislation authorizing the cleanup of unsafe debris and hazardous waste on lands which have been formerly-owned or used by the Department of Defense. The Defense Environmental Restoration Program was established to implement the cleanup and is being administered by the Office of the Secretary of Defense. Under the auspices of this program, the Seattle District Corps of Engineers is examining sites in Washington which are believed to have been formerly owned or used by the Department of Defense. Based on current legislation, a site visit, information from you as the land manager, and the public record, the abovementioned formal determination was made regarding the eligibility of the site for cleanup.

Should you or your staff have any questions regarding this decision, please contact Mr. Johathan A. Maas of the Seattle District Hazardous Waste Section staff at (206) 764-6745.

Sincerely,

Pat M. Stevens IV
Brigadier General, U.S. Army
Division Engineer

DETERMINATION

Based on the foregoing findings of fact, the site has been determined to be formerly used by the DOD. However, there is no evidence of unsafe conditions resulting from DOD use. Therefore it is determined that an environmental restoration project is not an appropriate undertaking within the purview of the Defense Environmental Restoration Program, established under 10 USC 2701 et seq., for the reasons stated above.

23 Jun 94
Date

PAT M. STEVENS IV
Brigadier General
Commanding

1988

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM (DERP)
FOR FORMERLY USED SITES
FINDINGS AND DETERMINATION OF ELIGIBILITY
PORT ANGELES ARMY AIRFIELD
CLALLAM COUNTY, WASHINGTON
PROJECT NO. F10WA040100

FINDINGS OF FACT

1. Project Identification. The former Port Angeles Army Airfield is located near Port Angeles, Clallam County, Washington, in Sections 5, 6, 7, and 8, Township 30 North, Range 6 West, and Section 1, Township 30 North, Range 7 West, Willamette Meridian. No work is proposed under DERP.

2. Acquisition. The Department of the Army acquired the existing Port Angeles Airport and certain adjacent properties in 1943-1944. A total of 741.10 acres were acquired as follows: 221.21 acres fee (105.12 acres by negotiated purchase and 116.09 acres by condemnation); 437.15 acres leased; 6 easements totaling 0.84-acre, 8 licenses totaling 0.28 acre, and 81.62 acres by permit. The facility was transferred to the Department of the Navy on July 4, 1944.

3. Utilization.

a. Port Angeles Army Airfield operated as a satellite to McChord Field (now McChord Air Force Base). The installation supported a squadron of P-38 Lightning fighter aircraft. Military personnel using these facilities numbered 34 during the period of 1943-1944.

b. In 1948 there were 15 buildings at the site. These buildings, including both pre-war civilian and later military construction, are as follows:

Motor repair shop	Pilot's alert building
Armament building	Control tower
Technical school building	Administration building
Pilot's building	Portable shed
Chlorinating house	Substation
Hangar	Oil house
Garage	Link trainer
Dispensary	

In addition, there were four 25,000 gallon underground gasoline storage tanks as well as revetments (aircraft parking areas with tie-downs), hardstands, and fueling stations.

4. Disposal. The fee acres of the site were conveyed to Clallam County by quitclaim deed on May 24, 1948, under the provisions of the Surplus Property Act of 1944. As a condition of this conveyance, the County and its successors agreed to use the airport property (land, buildings, improvements) for public purposes, maintain the airport facilities, and adequately clear and protect approach areas. Available records do not indicate the disposition of the

lesser interests; however, it is assumed that they were terminated prior to or concurrent with disposition of the fee acreage.

5. Evaluation.

a. A site investigation was conducted on August 18, 1988, by Nancy Walker and Clifford Lee of Shapiro and Associates, Inc., and Susan Penoyer of Applied Geotechnology, Inc., under contract to the Seattle District, U.S. Army Corps of Engineers. The installation, now called the William R. Fairchild International Airport, is owned and operated by the Port of Port Angeles. The southernmost section of the property is used for timber storage. The northernmost portion is the Port of Port Angeles Industrial Park.

b. With the exception of the motor repair shop and a hangar, all buildings existing at the time the property was turned over to Clallam County have been removed. The motor repair shop, listed as T-23 in the QCD and located in the southeast portion of the airport, has been extensively rebuilt and modified (presently used as a machine shop). The hangar (T-20) has also been extensively modified and is currently being used by the airport.

c. A 1946 plan view of the Army Airfield shows revetments and four 25,000 gallon underground fuel storage tanks located in the north section of the airport. The locations of the revetments are identifiable in a 1982 airport land use plan aerial photograph as patches of open ground extending north off the maintenance road which runs parallel to runways 1 and 2. The asphalt paved revetments remain, and are occasionally used for storage.

d. Mr. Dennis Ingram, Maintenance Supervisor, Port of Port Angeles, stated that the 1946 plan view showed two of the four 25,000 gallon underground fuel storage tanks located in an area east of the intersection of Runways 1 and 2, north of Runway 1, near the Rogerson-Hiller Corporation, a helicopter manufacturing facility. Previous excavations in this locality down to 4 feet revealed only sections of 3-inch galvanized fuel lines. There is no surface evidence suggesting the tanks remain in place, but there is no record that they were removed.

e. The second grouping of two tanks was reported to have been located between two revetments west of the runway intersection and north of Runway 2. Mr. Ingram stated that many years ago he observed the remains of what appeared to be a concrete "vault with valves" in the general area where these tanks were supposed to have been located. No surface indications of the vault or the two tanks were found during the site investigation, however there is considerable vegetation in this locality which restricts access and vision. There is no record that the tanks were removed.

f. There is no evidence of unsafe structures or debris, hazardous or toxic waste, or unexploded ordnance resulting from DOD use of this site.

Initial Investigation Safety Plan Checklist

1. General

Site name/address: Port Angeles Army Air Field
Sections 5,6,7,and 8, Township 30 North, Range 6 West, and Section 1, Township 30 North, Range 7 West, Willamette Meridian.
Clallam County, Washington

2. Project Manager: Guy Barrett
Plan Preparer: Guy Barrett
Review/approval: Carol Johnston

Proposed date of field activities: May 5, 1999

3. Sampling Objectives

a. Obtain representative samples of soil, surface water, groundwater and/or sediments as needed to establish, or confirm, identification of specific hazardous constituents;
b. Document off-site contamination release;
c. Document that contamination originated from the initial site area;
d. Use data to assign WARM scoring values; or
e. Document the absence of significant contamination concentrations and make a recommendation of "No Further Action" for the site.

3. Key Personnel/Duties Identified

Guy Barrett, WSDOE – Sampling, Recording
Carol Johnston, WSDOE – Recording & Technical Assistance
Mr. Phil Volk, Manager, Administration Building, Port of Port Angeles

4. Site Description/History

The subject site, former Port Angeles Army Airfield, is located near Port Angeles, Clallam County, Washington, in Sections 5, 6, 7, and 8, Township 30 North, Range 6 West, and Section 1, Township 30 North, Range 7 West, Willamette Meridian. The Department of the Army acquired the existing Port Angeles Airport and certain adjacent properties in 1943-1944. A total of 741.10 acres were acquired. The facility was transferred to the Department of the Navy on July 4, 1944. The Port Angeles Army Airfield operated as a satellite to McCord Field (now McChord Air Force Base). The installation supported a squadron of P-38 Lightening fighter aircraft. Military personnel using these facilities numbered 34 during the period of 1943-1944.

The fee acres of the property were conveyed to Clallam County by quitclaim deed on May 24, 1948, under the provisions of the Surplus Property Act of 1944.

Ecology has not been notified of environmental concerns at this site but has reason to believe that they may exist from investigative results at similar sites. Based on sampling locations and results from these other sites, an initial investigation was deemed warranted at this site. On May 5, 1999 field investigation of this site will commence.

Waste types: EPA Priority Pollutants (Metals), Semi-Volatile Organic Compounds, and Petroleum Products.

Waste Locations: Mostly outdoors. Some indoor locations possible.

Estimated volumes of chemicals/waste: Unknown.

Hazard summary:]

Chemical Specific: Metals (nickel-cadmium batteries), Solvents, Kerosene, diesel, lube oil, waste oil, hydraulic fluids, gasoline, degreasers.

Overall: same

Physical Specific: Use protective gloves when handling all soils.

Overall: same

Confined space: not anticipated

Emergency exit situations: Not needed. Sampling to be conducted out doors.

Site Safety Work Plan

Site Control:

Perimeter identified – A site map with the approximate scale is provided at the end of this document. The site map depicts property lines, roads, fences and buildings, etc.

Work area designated – 25 feet around sampling sites.

Zone(s) of contaminates identified – general vicinities only.

Site entry procedures: None

Special considerations: See Hazard Summary above.

Special site equipment/facilities: None.

Work limitations: None.

Personnel Protection:

Specific tasks – vs – level A/B/C/D
Site entry: Level D
Sampling: Level D
Decontamination Sampling Equipment: Level D
Level D consists of safety boots, hard hat, gloves for sampling.

Modifications:

Action Levels –
Organic vapors: Organic vapors should not be a problem in non-restricted areas outdoors.
Oxygen: Outdoors should not be a problem.
Combustible gases: If solvents are detected at high concentrations, reevaluate and determine the need to return with additional monitoring equipment.
Dust: Visible dust emission, discontinue until dust settles.
Radiation: Not applicable.

Air Monitoring:

Contaminants of concern: Dust exposures are expected to be minimal.
Avoid direct contact or confined breathing spaces associated with high concentrations of petroleum products or solvents.
Monitoring equipment: Visual assessments, olfactory senses.

Decontamination:

Solutions: Distilled water, tap water.

Procedures:

Sample handling procedures:

- Brush off visible mud/dirt; scrub and wash with clean water. Organic-free water, distilled water or tap water may be used; the tap water source must be non-contaminated.
- Scrub and wash with Alconox solution. The marked 3 gallon container contains this solution. Spray on solution and scrub with brush.

Rinse with tap water from the large container
Final rinse with deionized or distilled water in the other garden sprayer.
Contaminated protective wear: Gloves, Boots, Goggles

Investigative wastes disposal: Excess sample will be returned to original sampling area. Rinse water to sewer system.

I. Conclusions

The Washington State Department of Ecology investigated the FUDS Port Angeles Army Air Field site located near Port Angeles, WA on May 5, 1999. Based on results from laboratory analysis of samples taken at this site, Ecology found exceedances of lubricating oil and lead in the soil at this site. Ecology therefore does not concur with the No Further Action (NOFA) required determination made by the Seattle District Corps of Engineers at the FUDS Port Angeles Army Air Field and will update its database to reflect this.

Ecology does not assume any liability for any release, threatened release or other conditions at this site, or for any actions taken or omitted by any person or his/her agents or employees with regard to the release, threatened release, or other conditions at the site. Ecology reserves the right to require further action at the site.

APPENDIX E

Radius Database Search Report

DATABASE REPORT

Project Property:	*W. Edgewood Dr and S. Critchfield Rd Sequim WA*
Project No:	*PNR0651RW1/1111A PO#TBD*
Report Type:	*Database Report*
Order No:	*24121300691*
Requested by:	*Geosyntec Consultants*
Date Completed:	*December 13, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Executive Summary

Property Information:

Project Property: *W. Edgewood Dr and S. Critchfield Rd Sequim WA*

Project No: *PNR0651RW1/1111A PO#TBD*

Coordinates:

Latitude:	*48.11386869*
Longitude:	*-123.5135601*
UTM Northing:	*5,329,083.92*
UTM Easting:	*461,775.16*
UTM Zone:	*UTM Zone 10U*

Elevation: *308 FT*

Order Information:

Order No:	*24121300691*
Date Requested:	*December 13, 2024*
Requested by:	*Geosyntec Consultants*
Report Type:	*Database Report*

Historicals/Products:

Aerial Photographs	*Historical Aerials (with Project Boundaries)*
City Directory Search	*Smart CD Search*
ERIS Xplorer	*ERIS Xplorer*
Excel Add-On	*Excel Add-On*
Fire Insurance Maps	*US Fire Insurance Maps*
Physical Setting Report (PSR)	*Physical Setting Report (PSR)*
Topographic Map	*Topographic Maps*

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	1.00mi to 3.00mi	Total
Standard Environmental Records								
Federal								
NPL	Y	1	0	0	0	0	-	0
PROPOSED NPL	Y	1	0	0	0	0	-	0
DELETED NPL	Y	0.5	0	0	0	-	-	0
SEMS	Y	0.5	0	0	0	-	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	-	-	0
ODI	Y	0.5	0	0	0	-	-	0
IODI	Y	0.5	0	0	0	-	-	0
CERCLIS	Y	0.5	0	0	0	-	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	-	-	0
CERCLIS LIENS	Y	0.25	0	0	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	-	0
RCRA TSD	Y	0.5	0	0	0	-	-	0
RCRA LQG	Y	0.25	0	0	-	-	-	0
RCRA SQG	Y	0.25	0	0	-	-	-	0
RCRA VSQG	Y	0.25	0	0	-	-	-	0
RCRA NON GEN	Y	0.25	0	0	-	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	-	-	0
FED ENG	Y	0.5	0	0	0	-	-	0
FED INST	Y	0.5	0	0	0	-	-	0
LUCIS	Y	0.5	0	0	0	-	-	0
NPL IC	Y	0.5	0	0	0	-	-	0
ERNS 1982 TO 1986	Y	0.25	0	0	-	-	-	0
ERNS 1987 TO 1989	Y	0.25	0	0	-	-	-	0
ERNS	Y	0.25	0	0	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	-	-	0
FEMA UST	Y	0.25	0	0	-	-	-	0
FRP	Y	0.25	0	0	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	1.00mi to 3.00mi	Total
DELISTED FRP	Y	0.25	0	0	-	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	-	-	-	0
REFN	Y	0.25	0	0	-	-	-	0
BULK TERMINAL	Y	0.25	0	0	-	-	-	0
SEMS LIEN	Y	0.25	0	0	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	-	0
DOE FUSRAP	Y	1	0	0	0	0	-	0
State								
HSL	Y	1	0	0	0	**1**	-	**1**
CSCSL	Y	1	0	0	0	**4**	-	**4**
DELISTED SHWS	Y	1	0	0	0	**1**	-	**1**
CSCSL NFA	Y	0.5	0	0	0	-	-	0
SWF/LF	Y	1	0	0	**1**	**1**	-	**2**
RECYCLERS	Y	0.5	0	0	0	-	-	0
WASTE TIRE	Y	0.5	0	0	0	-	-	0
LUST	Y	0.5	0	0	0	-	-	0
LUST PTAP	Y	0.5	0	0	0	-	-	0
UST LOAN	Y	0.5	0	0	0	-	-	0
LST HOT	Y	0.5	0	0	0	-	-	0
UST	Y	0.25	0	0	-	-	-	0
DELISTED LST	Y	0.5	0	0	0	-	-	0
AST	Y	0.25	0	0	-	-	-	0
AST SPL PREV	Y	0.25	0	0	-	-	-	0
DELISTED TNK	Y	0.25	0	0	-	-	-	0
INST	Y	0.5	0	0	0	-	-	0
VCP	Y	0.5	0	0	0	-	-	0
BROWNFIELDS	Y	0.5	0	0	0	-	-	0
Tribal								
INDIAN LUST	Y	0.5	0	0	0	-	-	0
INDIAN UST	Y	0.25	0	0	-	-	-	0
DELISTED INDIAN LST	Y	0.5	0	0	0	-	-	0
DELISTED INDIAN UST	Y	0.25	0	0	-	-	-	0
County	***No County databases were selected to be included in the search.***							

Database	Searched	Search Radius	Project Property	Within 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	1.00mi to 3.00mi	Total
Additional Environmental Records								
Federal								
PFAS GHG	Y	0.5	0	0	0	-	-	0
OSC RESPONSE	Y	0.25	0	0	-	-	-	0
FINDS/FRS	Y	0.25	**1**	**3**	-	-	-	**4**
TRIS	Y	0.25	0	0	-	-	-	0
PFAS NPL	Y	0.5	0	0	0	-	-	0
PFAS FED SITES	Y	0.5	0	0	0	-	-	0
PFAS SSEHRI	Y	0.5	0	0	0	-	-	0
PFAS ERNS	Y	0.5	0	0	0	-	-	0
PFAS NPDES	Y	0.5	0	0	0	-	-	0
PFAS TRI	Y	0.5	0	0	0	-	-	0
PFAS WATER	Y	0.5	0	0	0	-	-	0
PFAS TSCA	Y	0.5	0	0	0	-	-	0
PFAS E-MANIFEST	Y	0.5	0	0	0	-	-	0
PFAS IND	Y	0.5	0	0	**1**	-	-	**1**
HMIRS	Y	0.25	0	0	-	-	-	0
NCDL	Y	0.25	0	0	-	-	-	0
TSCA	Y	0.25	0	0	-	-	-	0
HIST TSCA	Y	0.25	0	0	-	-	-	0
FTTS ADMIN	Y	0.25	0	0	-	-	-	0
FTTS INSP	Y	0.25	0	0	-	-	-	0
PRP	Y	0.25	0	0	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	-	-	0
ICIS	Y	0.25	0	**1**	-	-	-	**1**
FED DRYCLEANERS	Y	0.25	0	0	-	-	-	0
DELISTED FED DRY	Y	0.25	0	0	-	-	-	0
FUDS	Y	3	0	0	0	0	0	0
FUDS MRS	Y	1	0	0	0	0	-	0
FORMER NIKE	Y	1	0	0	0	0	-	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	0.25	0	0	-	-	-	0
HIST MLTS	Y	0.25	0	0	-	-	-	0
MINES	Y	0.25	0	0	-	-	-	0
SMCRA	Y	1	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	1.00mi to 3.00mi	Total
MRDS	Y	1	0	0	0	**1**	-	**1**
LM SITES	Y	1	0	0	0	0	-	0
ALT FUELS	Y	0.25	0	0	-	-	-	0
CONSENT DECREES	Y	0.25	0	0	-	-	-	0
AFS	Y	PO	0	-	-	-	-	0
SSTS	Y	0.25	0	0	-	-	-	0
PCBT	Y	0.5	0	0	0	-	-	0
PCB	Y	0.5	0	0	0	-	-	0
POWER PLANTS	Y	0.25	0	0	-	-	-	0
State								
PFAS CONF-SUSP	Y	0.5	0	0	0	-	-	0
SPILLS	Y	0.25	0	0	-	-	-	0
SPILLS WATER	Y	0.25	0	0	-	-	-	0
ALL SITES	Y	0.5	**1**	**1**	**3**	**1**	-	**6**
ERTS	Y	0.25	0	0	-	-	-	0
ICR	Y	0.5	0	0	0	-	-	0
DRYCLEANERS	Y	0.25	0	0	-	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	-	-	-	0
TIER 2	Y	0.25	0	0	-	-	-	0
CDL	Y	PO	0	-	-	-	-	0
HIST CDL	Y	PO	0	-	-	-	-	0
AIR PERMITS	Y	0.25	0	0	-	-	-	0
UIC	Y	0.25	0	0	-	-	-	0
Tribal	***No Tribal additional environmental record sources available for this State.***							
County	***No County additional environmental databases were selected to be included in the search.***							
	Total:		**2**	**5**	**5**	**9**	0	**21**

**** PO – Property Only***
**** 'Property and adjoining properties' database search radii are set at 0.25 miles.***

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	ALL SITES	Critchfield Rd Property	Port Angeles WA 98363	NE	0.00 / 0.00	-1	19
1	FINDS/FRS	CRITCHFIELD RD PROPERTY	PORT ANGELES WA 98363 ***Registry ID:*** *110069408135*	NE	0.00 / 0.00	-1	19

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
2	FINDS/FRS	CRITCHFIELD RD. PROPERTY	UNSPECIFIED PORT ANGELES WA 98363 ***Registry ID:*** 110071177766	NE	0.00 / 14.52	-16	20
3	FINDS/FRS	DRY CREEK ROAD	UNSPECIFIED UNSPECIFIED WA 00000 ***Registry ID:*** 110071335226	SSW	0.01 / 32.56	6	20
4	ALL SITES	A2Z Enterprises LLC	2917 W EDGEWOOD DR PORT ANGELES WA 98363	WSW	0.04 / 233.41	6	21
4	ICIS	EXTREME SPORTS PARK	2917 W EDGEWOOD DR PORT ANGELES WA 98363 ***Registry ID:*** 110058918578	WSW	0.04 / 233.41	6	21
5	FINDS/FRS	EXTREME SPORTS PARK	2917 W EDGEWOOD DR PORT ANGELES WA 98363 ***Registry ID:*** 110058918578	W	0.19 / 1,021.69	9	22
6	ALL SITES	Dan Morrison dba Morrison Excavating Inc	Lower Elwha Rd Port Angeles WA	WNW	0.32 / 1,714.39	-12	23
7	SWF/LF	Murrays & American Disposal (Waste Connections)	2508 W Edgewood Dr Port Angeles WA 98362	ESE	0.34 / 1,786.26	4	23
8	ALL SITES	ALPINE AUTO INC	4318 DRY CREEK RD PORT ANGELES WA 98363	S	0.36 / 1,914.71	80	24
9	PFAS IND	WM R FAIRCHILD INTL AIRPORT	PORT ANGELES WA	NNW	0.45 / 2,353.81	-84	24
10	ALL SITES	Interfor Pacific Stormwater Pond	WA	SSW	0.47 / 2,461.54	86	25
11	ALL SITES	Saddle Club Road	WA	WNW	0.50 / 2,645.06	-37	25
12	DELISTED SHWS	Saddle Club Road	WA	WNW	0.50 / 2,645.08	-37	26

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
13	CSCSL	Saddle Club Road	WA	WNW	0.50 / 2,646.74	-37	27
14	CSCSL	Band Trucking	2715 US 101 West PORT ANGELES WA 98362	SSE	0.63 / 3,300.03	124	27
15	SWF/LF	Dewatto Bay Recycling (DBR) - Port Angeles	4309 Fey Road Port Angeles WA 98363	ESE	0.72 / 3,782.91	58	28
16	CSCSL	PHILS FREEDOM WELDING	2359 HWY 101 W PORT ANGELES WA 98362	SE	0.78 / 4,143.01	103	28
16	HSL	PHILS FREEDOM WELDING	2359 HWY 101 W PORT ANGELES WA 98362	SE	0.78 / 4,143.01	103	30
17	CSCSL	Mel Payne Logging Yard	2358 101 W PORT ANGELES WA 98362	SE	0.83 / 4,391.77	110	31
18	MRDS	UNNAMED PIT	CLALLAM COUNTY PORT ANGELES WA 98363 ***Dep ID:*** 10301458	ENE	0.87 / 4,594.68	-57	32

Executive Summary: Summary by Data Source

Standard

State

HSL - Hazardous Sites List

A search of the HSL database, dated Sep 11, 2024 has found that there are 1 HSL site(s) within approximately 1.00miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
PHILS FREEDOM WELDING	2359 HWY 101 W PORT ANGELES WA 98362	SE	0.78 / 4,143.01	16

CSCSL - Confirmed and Suspected Contaminated Sites List

A search of the CSCSL database, dated Sep 11, 2024 has found that there are 4 CSCSL site(s) within approximately 1.00miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Band Trucking	2715 US 101 West PORT ANGELES WA 98362	SSE	0.63 / 3,300.03	14
PHILS FREEDOM WELDING	2359 HWY 101 W PORT ANGELES WA 98362	SE	0.78 / 4,143.01	16
Mel Payne Logging Yard	2358 101 W PORT ANGELES WA 98362	SE	0.83 / 4,391.77	17

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Saddle Club Road	WA	WNW	0.50 / 2,646.74	13

DELISTED SHWS - Delisted Confirmed and Suspected Contaminated Sites

A search of the DELISTED SHWS database, dated Sep 11, 2024 has found that there are 1 DELISTED SHWS site(s) within approximately 1.00miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Saddle Club Road	WA	WNW	0.50 / 2,645.08	12

SWF/LF - Solid Waste Facility Database

A search of the SWF/LF database, dated Aug 21, 2024 has found that there are 2 SWF/LF site(s) within approximately 1.00miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Murrays & American Disposal (Waste Connections)	2508 W Edgewood Dr Port Angeles WA 98362	ESE	0.34 / 1,786.26	7
Dewatto Bay Recycling (DBR) - Port Angeles	4309 Fey Road Port Angeles WA 98363	ESE	0.72 / 3,782.91	15

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Aug 1, 2024 has found that there are 4 FINDS/FRS site(s) within approximately 0.25miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
DRY CREEK ROAD	UNSPECIFIED UNSPECIFIED WA 00000 ***Registry ID**: 110071335226*	SSW	0.01 / 32.56	3
EXTREME SPORTS PARK	2917 W EDGEWOOD DR PORT ANGELES WA 98363 ***Registry ID**: 110058918578*	W	0.19 / 1,021.69	5

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CRITCHFIELD RD PROPERTY	PORT ANGELES WA 98363 ***Registry ID**: 110069408135*	NE	0.00 / 0.00	1
CRITCHFIELD RD. PROPERTY	UNSPECIFIED PORT ANGELES WA 98363 ***Registry ID**: 110071177766*	NE	0.00 / 14.52	2

PFAS IND - PFAS Industry Sectors

A search of the PFAS IND database, dated Sep 23, 2024 has found that there are 1 PFAS IND site(s) within approximately 0.50miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
WM R FAIRCHILD INTL AIRPORT	PORT ANGELES WA	NNW	0.45 / 2,353.81	9

ICIS - Integrated Compliance Information System (ICIS)

A search of the ICIS database, dated Apr 13, 2024 has found that there are 1 ICIS site(s) within approximately 0.25miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
EXTREME SPORTS PARK	2917 W EDGEWOOD DR PORT ANGELES WA 98363 ***Registry ID**: 110058918578*	WSW	0.04 / 233.41	4

MRDS - Mineral Resource Data System

A search of the MRDS database, dated Mar 15, 2016 has found that there are 1 MRDS site(s) within approximately 1.00miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
UNNAMED PIT	CLALLAM COUNTY PORT ANGELES WA 98363 ***Dep ID**: 10301458*	ENE	0.87 / 4,594.68	18

State

ALL SITES - Facility/Site Identification System

A search of the ALL SITES database, dated Jul 15, 2024 has found that there are 6 ALL SITES site(s) within approximately 0.50miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
A2Z Enterprises LLC	2917 W EDGEWOOD DR PORT ANGELES WA 98363	WSW	0.04 / 233.41	4
ALPINE AUTO INC	4318 DRY CREEK RD PORT ANGELES WA 98363	S	0.36 / 1,914.71	8
Interfor Pacific Stormwater Pond	WA	SSW	0.47 / 2,461.54	10

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Critchfield Rd Property	Port Angeles WA 98363	NE	0.00 / 0.00	1
Dan Morrison dba Morrison Excavating Inc	Lower Elwha Rd Port Angeles WA	WNW	0.32 / 1,714.39	6
Saddle Club Road	WA	WNW	0.50 / 2,645.06	11

Map: 3.0 Mile Radius

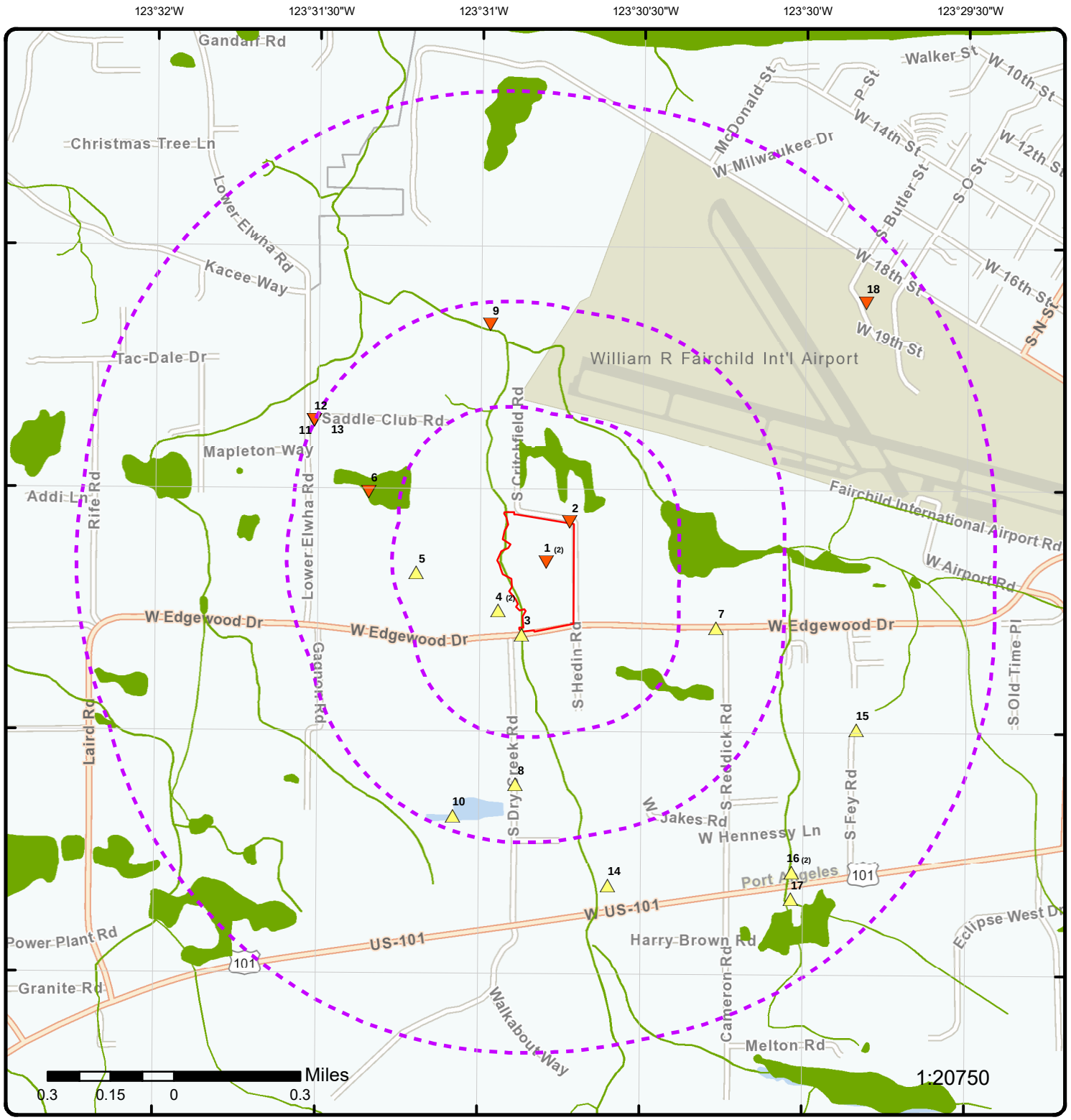
Order Number: 24121300691

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA

- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)

Source: © 2021 ESRI StreetMap Premium

© ERIS Information Inc.



Map: 1.0 Mile Radius

Order Number: 24121300691

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA

- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)

Source: © 2021 ESRI StreetMap Premium

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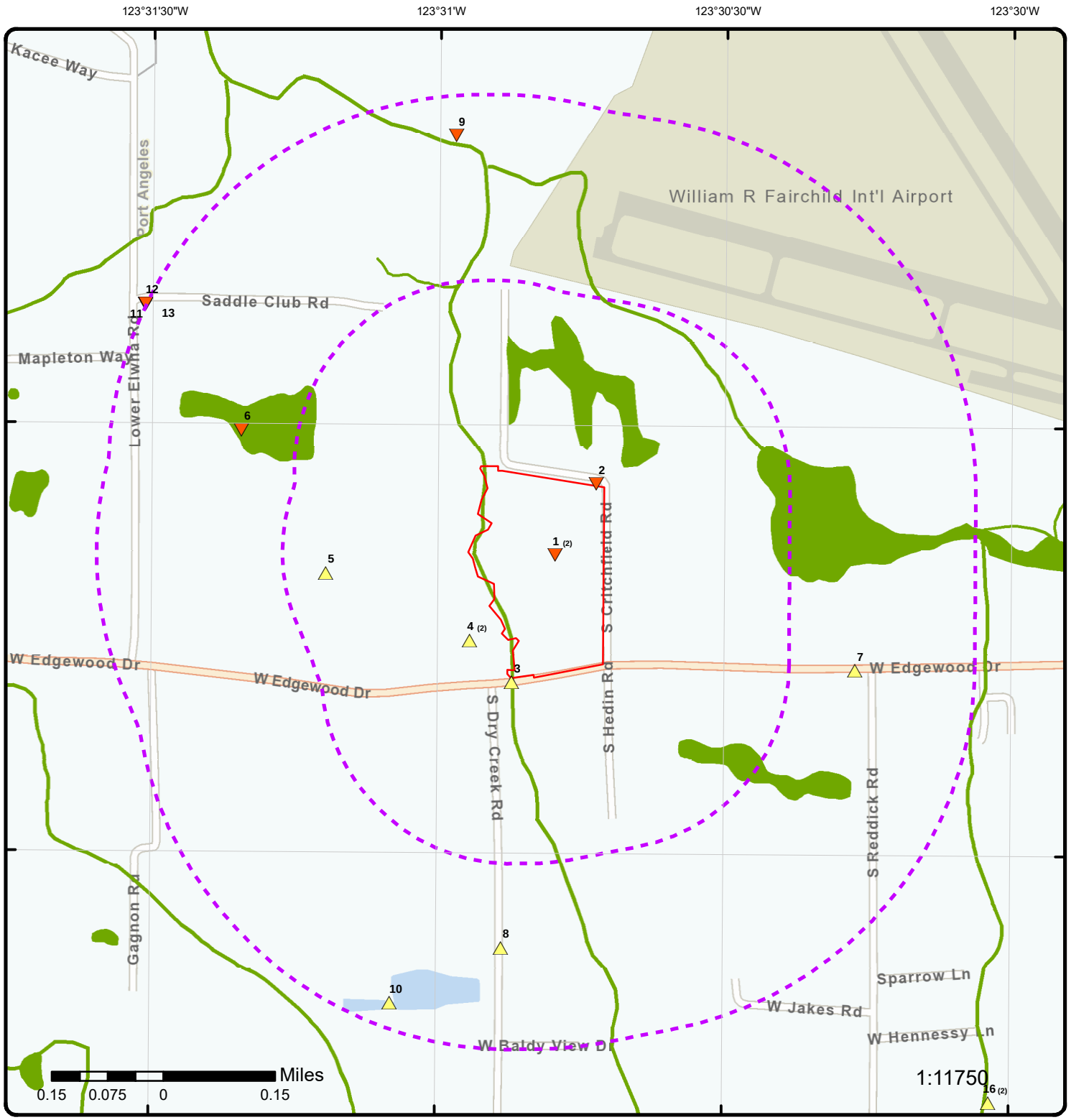

Map: 0.5 Mile Radius

Order Number: 24121300691

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA

- Project Property
- Buffer Outline
- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- Areas with Higher Elevation
- Areas with Same Elevation
- Areas with Lower Elevation
- Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- National Priorities List (Active, Delisted, Proposed, Institutional Control)

Source: © 2021 ESRI StreetMap Premium

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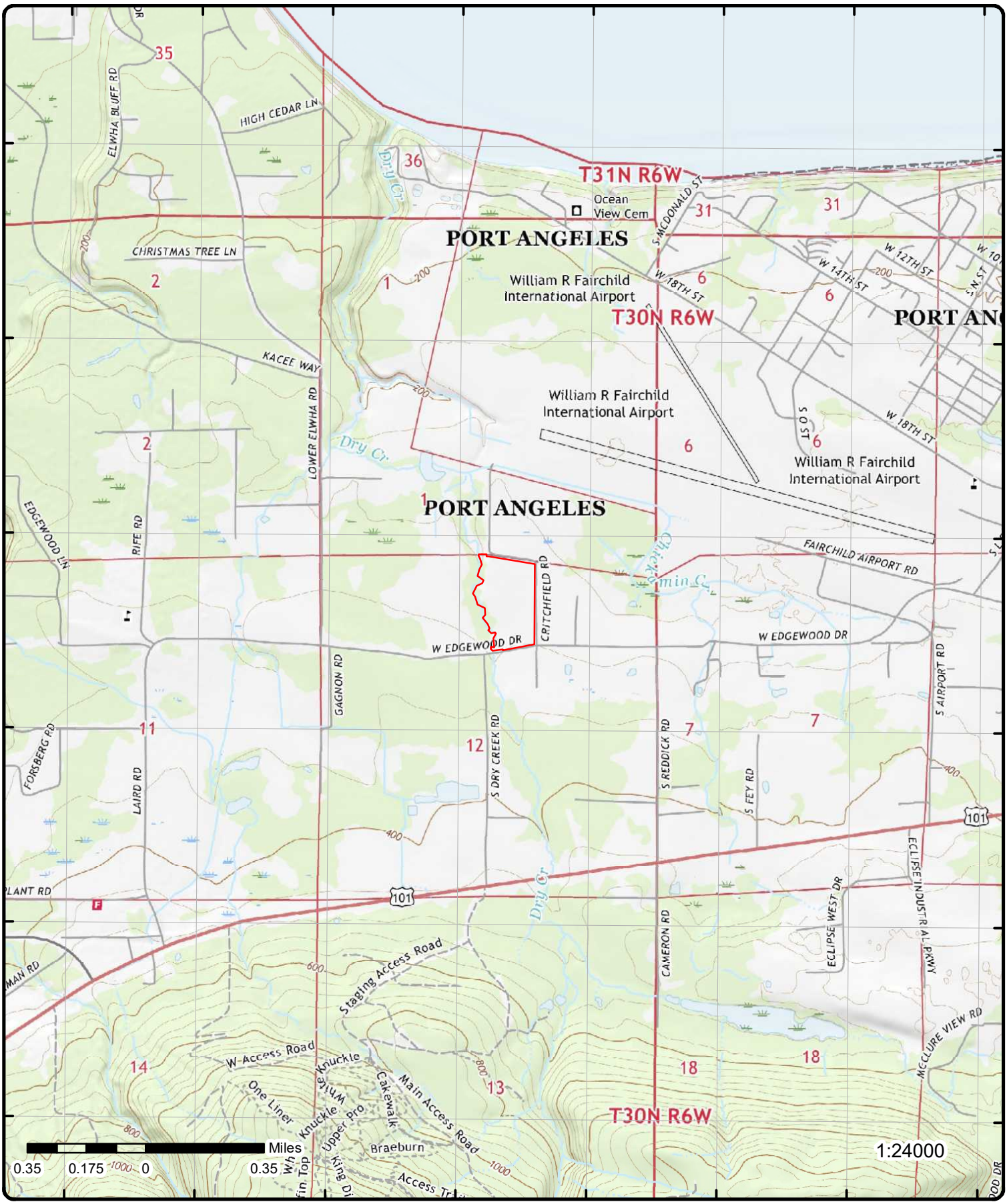
Aerial **Year: 2023**

Order Number: 24121300691

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA

Source: ESRI World Imagery

© ERIS Information Inc.



Topographic Map

Year: 2020

Order Number: 24121300691

Address: W. Edgewood Dr and S. Critchfield Rd, WA

Quadrangle(s): Ediz Hook WA, Angeles Point WA, Lake Sutherland WA, Elwha WA, Joyce WA, Port Angeles WA

© ERIS Information Inc.

Source: USGS Topographic Map

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 2	NE	0.00 / 0.00	307.42 / -1	Critchfield Rd Property Port Angeles WA 98363	ALL SITES

Facility/Site ID: 22166
Point Y: 48.1141366753869
Point X: -123.513251598374
Source File: Washington State Department of Ecology Facilties - Sites Interactions; Washington State Department of Ecology Facilties - Sites

Facility/Site Interaction

Program ID: WAR304324
Interaction ID: 118808
Interaction Status: A
Interac Stat Desc: Active
Interaction Type: CONSTSWGP
Facility Alternate: Critchfield Rd. Property
Interaction Desc: Construction SW GP
Program Name Desc: Water Quality Program
Database Name Desc: Permitting & Reporting Information System
Interact Start Dt: 21-Jun-2016
Interact End Dt:
Ecology Program: WATQUAL
Prog Database Name: PARIS

Facility Location Detail

Coord Extension: 0
Coord Geog: 8
Horizontal: 40ft
Horizont 1: NAD83HARN
Horizont 2: Digital map or GIS
Horizont Accuracy: 6
Hor Dtm Co: 3
Horz Coll Meth Cd: 13
Location Verified:
Geo Loc ID: 22166

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	2 of 2	NE	0.00 / 0.00	307.42 / -1	CRITCHFIELD RD PROPERTY PORT ANGELES WA 98363	FINDS/FRS

Registry ID: 110069408135
FIPS Code: 00009
HUC Code:
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 03-AUG-16
Update Date:
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor:
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No:
Census Block Code:
EPA Region Code: 10
County Name: CLALLAM

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

US/Mexico Border Ind:
Latitude:
Longitude:
Reference Point:
Coord Collection Method:
Accuracy Value:
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110069408135
Data Source: Facility Registry Service - Single File
Program Acronyms:

WA-FSIS:22166

2	1 of1	NE	0.00 / 14.52	291.93 / -16	CRITCHFIELD RD. PROPERTY UNSPECIFIED PORT ANGELES WA 98363	FINDS/FRS

Registry ID: 110071177766
FIPS Code: 53009
HUC Code: 17110020
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 11-JAN-22
Update Date:
Interest Types: ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: ICIS
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 06
Census Block Code: 530090007002025
EPA Region Code: 10
County Name: CLALLAM COUNTY
US/Mexico Border Ind:
Latitude: 48.115528
Longitude: -123.51207
Reference Point: POINT WHERE SUBSTANCE IS RELEASED
Coord Collection Method: GPS - UNSPECIFIED
Accuracy Value: 10
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110071177766
Data Source: Facility Registry Service - Single File
Program Acronyms:

NPDES:WAR304324

3	1 of1	SSW	0.01 / 32.56	314.69 / 6	DRY CREEK ROAD UNSPECIFIED UNSPECIFIED WA 00000	FINDS/FRS

Registry ID: 110071335226
FIPS Code:
HUC Code: 17110020
Site Type Name: STATIONARY
Location Description:
Supplemental Location:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Create Date: 10-OCT-22
Update Date:
Interest Types: ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: ICIS
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 06
Census Block Code: 530090007002024
EPA Region Code: 10
County Name:
US/Mexico Border Ind:
Latitude: 48.111656
Longitude: -123.514496
Reference Point: POINT WHERE SUBSTANCE IS RELEASED
Coord Collection Method: GPS - UNSPECIFIED
Accuracy Value: 10
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110071335226
Data Source: Facility Registry Service - Single File
Program Acronyms:

NPDES:WAR311827

4	1 of2	WSW	0.04 / 233.41	314.71 / 6	A2Z Enterprises LLC 2917 W EDGEWOOD DR PORT ANGELES WA 98363	ALL SITES

Facility/Site ID: 8960
Point Y: 48.1117699995899
Point X: -123.515900999368
Source File: Washington State Department of Ecology Facilties - Sites Interactions; Washington State Department of Ecology Facilties - Sites

Facility/Site Interaction

Program ID:
Interaction ID: 110399
Interaction Status: A
Interac Stat Desc: Active
Interaction Type: ENFORFNL
Facility Alternate:
Interaction Desc: Enforcement Final
Program Name Desc: Water Resources Program
Database Name Desc: Docket Management System
Interact Start Dt: 14-Nov-2014
Interact End Dt:
Ecology Program: WATRES
Prog Database Name: DMS

Facility Location Detail

Coord Extension: 0
Coord Geog: 8
Horizontal: Unknown
Horizont 1: WGS84
Horizont 2: Address
Horizont Accuracy: 99
Hor Dtm Co: 4
Horz Coll Meth Cd: 4
Location Verified:
Geo Loc ID: 8960

4	2 of2	WSW	0.04 / 233.41	314.71 / 6	EXTREME SPORTS PARK 2917 W EDGEWOOD DR PORT ANGELES WA 98363	ICIS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

EPA Region:	10	**Federal Fac ID:**	
Registry ID:	110058918578	**Tribal Land Code:**	
Pgm Sys ID:	3400078069	**County:**	CLALLAM
Pgm Sys Acrnm:	ICIS	**Latitude 83:**	48.1139
Permit Type:		**Longitude 83:**	-123.51977

Details

Interest Type:	ENFORCEMENT/COMPLIANCE ACTIVITY	**Public Ind:**	Yes
Active Status:		**FIPS Code:**	
Accuracy Value:	692	**HUC 8 Code:**	17110020
Pgm Report URL:	no data yet	**HUC 12:**	
Federal Agency Name:			
Federal Land Ind:			
Fed Facility Code:			
Ref Point Desc:			
Collect Mth Desc:			
Fac URL:	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110058918578		
Program URL:			

Details

Interest Type:	FORMAL ENFORCEMENT ACTION	**Public Ind:**	Yes
Active Status:		**FIPS Code:**	
Accuracy Value:	692	**HUC 8 Code:**	17110020
Pgm Report URL:	no data yet	**HUC 12:**	
Federal Agency Name:			
Federal Land Ind:			
Fed Facility Code:			
Ref Point Desc:			
Collect Mth Desc:			
Fac URL:	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110058918578		
Program URL:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
5	1 of1	W	0.19 / 1,021.69	317.30 / 9	EXTREME SPORTS PARK 2917 W EDGEWOOD DR PORT ANGELES WA 98363	FINDS/FRS

Registry ID:	110058918578
FIPS Code:	
HUC Code:	17110020
Site Type Name:	STATIONARY
Location Description:	
Supplemental Location:	A2Z ENTERPRISES LLC - ESP EXTREME SPORTS PARK
Create Date:	02-MAY-14
Update Date:	31-MAR-17
Interest Types:	ENFORCEMENT/COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, STATE MASTER
SIC Codes:	
SIC Code Descriptions:	
NAICS Codes:	237990, 238910
NAICS Code Descriptions:	OTHER HEAVY AND CIVIL ENGINEERING CONSTRUCTION., SITE PREPARATION CONTRACTORS.
Conveyor:	EPA_SLT
Federal Facility Code:	
Federal Agency Name:	
Tribal Land Code:	
Tribal Land Name:	
Congressional Dist No:	06
Census Block Code:	530090007002024
EPA Region Code:	10
County Name:	CLALLAM
US/Mexico Border Ind:	
Latitude:	48.1139
Longitude:	-123.51977
Reference Point:	
Coord Collection Method:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Accuracy Value: 692
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110058918578
Data Source: Facility Registry Service - Single File
Program Acronyms:

ICIS:3400078069, WA-FSIS:8960

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	1 of1	WNW	0.32 / 1,714.39	296.79 / -12	Dan Morrison dba Morrison Excavating Inc Lower Elwha Rd Port Angeles WA	ALL SITES

Facility/Site ID: 99998390
Point Y: 48.1165350191682
Point X: -123.522392022751
Source File: Washington State Department of Ecology Facilties - Sites Interactions; Washington State Department of Ecology Facilties - Sites

Facility/Site Interaction

Program ID:
Interaction ID: 149261
Interaction Status: A
Interac Stat Desc: Active
Interaction Type: ENFORFNL
Facility Alternate:
Interaction Desc: Enforcement Final
Program Name Desc: Shorelines & Environmental Assistance Program
Database Name Desc: Docket Management System
Interact Start Dt: 28-Feb-2023
Interact End Dt:
Ecology Program: SEA
Prog Database Name: DMS

Facility Location Detail

Coord Extension: 0
Coord Geog: 0
Horizontal: 1000ft
Horizont 1: NAD83HARN
Horizont 2: Digital map or GIS
Horizont Accuracy: 11
Hor Dtm Co: 3
Horz Coll Meth Cd: 13
Location Verified:
Geo Loc ID: 99998390

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
7	1 of1	ESE	0.34 / 1,786.26	311.93 / 4	Murrays & American Disposal (Waste Connections) 2508 W Edgewood Dr Port Angeles WA 98362	SWF/LF

ID: 2067
Recycle Survey ID: 54
Permit Status: Unregulated
Operational Status: Operating
Year Opened: 1900
Year Closed:
Ann Report Required: No
Rec Survey Required: No
Facility Type: Recycling (non-regulated)
Open to Public: No
Regulation:
Ownership:
Region: Southwest Regional Office
County: Clallam
Latitude: 48.10824
Longitude: -123.45468
Facility Phone: (360) 452-7278 x14

Details

Permit No:
Operator Organization: Murrays/ Waste Connections
Operator First Name:
Operator Last Name:
Operator Title:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Web Address:						
8	1 of1	S	0.36 / 1,914.71	388.52 / 80	ALPINE AUTO INC 4318 DRY CREEK RD PORT ANGELES WA 98363	ALL SITES

Facility/Site ID: 14265
Point Y: 48.106699999625
Point X: -123.515999999474
Source File: Washington State Department of Ecology Facilties - Sites Interactions; Washington State Department of Ecology Facilties - Sites

Facility/Site Interaction

Program ID: WAR003282
Interaction ID: 88383
Interaction Status: A
Interac Stat Desc: Active
Interaction Type: INDSWGP
Facility Alternate: ALPINE AUTO INC
Interaction Desc: Industrial SW GP
Program Name Desc: Water Quality Program
Database Name Desc: Permitting & Reporting Information System
Interact Start Dt: 17-Jul-1998
Interact End Dt:
Ecology Program: WATQUAL
Prog Database Name: PARIS

Program ID:
Interaction ID: 113442
Interaction Status: A
Interac Stat Desc: Active
Interaction Type: ENFORFNL
Facility Alternate:
Interaction Desc: Enforcement Final
Program Name Desc: Water Quality Program
Database Name Desc: Docket Management System
Interact Start Dt: 26-May-2015
Interact End Dt:
Ecology Program: WATQUAL
Prog Database Name: DMS

Facility Location Detail

Coord Extension: 0
Coord Geog: 0
Horizontal: Unknown
Horizont 1: WGS84
Horizont 2: Unknown
Horizont Accuracy: 99
Hor Dtm Co: 4
Horz Coll Meth Cd: 99
Location Verified:
Geo Loc ID: 14265

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
9	1 of1	NNW	0.45 / 2,353.81	224.64 / -84	WM R FAIRCHILD INTL AIRPORT PORT ANGELES WA	PFAS IND

Status: Active
Fac Indian Cntry Flg: No
Fac Derived Huc: 17110020
Fac Derived Wbd: 171100200405
Fac Derived Cd113: 06
Fac Derived Cb2010: 530090007002017
Fac Informal Count: 0
Last Informal Action: 5/9/2011
Formal Action Count: 0
Last Formal Action: -
Fac Total Penalties: 0
Fac Penalty Count: -
Date Last Penalty: -
Last Penalty Amt: -
Fac Qtrs With Nc: 12
Programs With Snc: 0
Fac Percent Minority: 17.105
Fac Pop Den: 467.64
Count: 1
Fac Fips Code: 53009
Compliance Status: Violation Identified
EPA Programs: CWA
Federal Facility: No
Federal Agency: -
Fac Snc Flg: No
AIR Flag: No
NPDES Flag: Yes
SDWIS Flag: No
RCRAFlag: No
TRI Flag: No
GHG Flag: No
TRI IDs: -
TRI Releases Trnsfrs: -
TRI on Site Releases: -
TRI off Site Trnsfrs: -
TRI Reporter: -
Fac Imp Water Flg: -
Fac Major Flag: -

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Fac County:	CLALLAM	**Fac Active Flag:**	Yes
State Other :		**Fac Inspection Count:**	0
Region:	10	**Date Last Inspection:**	12/12/2017
Latitude:	48.122295	**Days Last Inspection:**	2475
Longitude:	-123.516205		

Fac Derived Tribes: Lower Elwha Tribal Community - 1 mile(s), Jamestown S'Klallam Tribe - 16 mile(s)
AIR IDs: -
CAA Permit Types: -
CAA NAICS: -
CAA SICS: -
NPDES IDs: WAR000083
CWA Permit Types: Non-M
CWA NAICS: 321999 113310 481111
CWA SICS: 2499 2411 4581
RCRA IDs: -
RCRA Permit Types: -
RCRA NAICS: -
SDWA IDs: -
SDWA System Types: -
SDWA Compliance Status: -
SDWA Snc Flag: No
Fac Collection Meth: GPS - UNSPECIFIED
EJSCREEN Flag Us: No
EJSCREEN Report: https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-123.516205,%22y%22:48.122295,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1
ECHO Facility Report: https://echo.epa.gov/detailed-facility-report?fid=110054928165

Industry: Airports

10	1 of1	SSW	0.47 / 2,461.54	394.31 / 86	Interfor Pacific Stormwater Pond WA	ALL SITES

Facility/Site ID: 1469
Point Y: 48.1054081175622
Point X: -123.517991273137
Source File: Washington State Department of Ecology Facilties - Sites Interactions; Washington State Department of Ecology Facilties - Sites

Facility/Site Interaction

Program ID:		**Interact Start Dt:**	01-Oct-2010
Interaction ID:	94404	**Interact End Dt:**	
Interaction Status:	A	**Ecology Program:**	WATRES
Interac Stat Desc:	Active	**Prog Database Name:**	DSS
Interaction Type:	DAM		

Facility Alternate: Interfor Pacific Stormwater Pond
Interaction Desc: Dam Site
Program Name Desc: Water Resources Program
Database Name Desc: Dam Safety System

Facility Location Detail

Coord Extension:	0	**Horizont Accuracy:**	6
Coord Geog:	8	**Hor Dtm Co:**	3
Horizontal:	40ft	**Horz Coll Meth Cd:**	13
Horizont 1:	NAD83HARN	**Location Verified:**	
Horizont 2:	Digital map or GIS	**Geo Loc ID:**	1469

11	1 of1	WNW	0.50 / 2,645.06	271.72 / -37	Saddle Club Road WA	ALL SITES

Facility/Site ID: 29977

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Point Y: 48.1189859449366
Point X: -123.525205257587
Source File: Washington State Department of Ecology Facilties - Sites Interactions; Washington State Department of Ecology Facilties - Sites

Facility/Site Interaction

Program ID:		***Interact Start Dt:***	31-Aug-2010
Interaction ID:	127541	***Interact End Dt:***	
Interaction Status:	A	***Ecology Program:***	TOXICS
Interac Stat Desc:	Active	***Prog Database Name:***	ISIS
Interaction Type:	SCS		
Facility Alternate:	Saddle Club Road		
Interaction Desc:	State Cleanup Site		
Program Name Desc:	Toxics Cleanup Program		
Database Name Desc:	Integrated Site Info System		

Facility Location Detail

Coord Extension:	0	***Horizont Accuracy:***	99
Coord Geog:	8	***Hor Dtm Co:***	4
Horizontal:	Unknown	***Horz Coll Meth Cd:***	13
Horizont 1:	WGS84	***Location Verified:***	
Horizont 2:	Digital map or GIS	***Geo Loc ID:***	29977

12	***1 of1***	***WNW***	***0.50 / 2,645.08***	***271.72 / -37***	***Saddle Club Road WA***	***DELISTED SHWS***

Delisted Confirmed and Suspected Contaminated Sites

Fac Site ID:	29977
Site Name:	Saddle Club Road
Address:	
City:	
Zip Code:	
Cleanup Site ID:	14660
Site Status:	Cleanup Started
Site Rank:	
Current VCP:	
Past VCP:	
Has Inst Control:	
Responsible Unit:	Southwest
County:	Clallam
Region:	Southwest
Latitude:	48.118985
Longitude:	-123.525206
Fac Site ID (OD):	29977
Cleanup Site ID (OD):	14660
Site Rank (OD):	
Respon Unit (OD):	Southwest
Has Env Coven (OD):	
County (OD):	Clallam
Region (OD):	Southwest
City (OD):	
Zipcode (OD):	
Latitude (OD):	48.118985
Longitude (OD):	-123.525206
Site Status (OD):	Cleanup Started
Site Name (OD):	Saddle Club Road
Address (OD):	
Location (OD):	"" (48.118985, -123.525206)
Alternate Site Names:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Data Source(s): Confirmed and Suspected Contaminated Sites; Cleanup Sites (Open Data Portal)
Original Source: CSCS
Record Date: 13-SEP-2021
Site URL:

Site Details URL:

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13 | **1 of1** | **WNW** | **0.50 / 2,646.74** | **271.72 / -37** | **Saddle Club Road** | **CSCSL**

WA

Fac Site ID: 29977
Cleanup Site ID: 14660
Site Status: Cleanup Started
Site Rank:
Current VCP:
Past VCP:
Has Inst Control:
County: Clallam
Region: Southwest
Latitude: 48.118985
Longitude: -123.525206
Site Name: Saddle Club Road
Address:
City:
Zip Code:
Site Status (OD): Cleanup Started
Site Name (OD): Saddle Club Road
Address (OD):
City (OD):
Zipcode (OD):
Location (OD): "" (48.118985, -123.525206)
Alternate Site Names:
Data Source(s): Confirmed and Suspected Contaminated Sites; Cleanup Sites (Open Data Portal)
Site URL: https://apps.ecology.wa.gov/cleanupsearch/site/14660
Site Details URL: https://apps.ecology.wa.gov/cleanupsearch/reports/cleanup/sitedetails/14660

Responsible Unit: Southwest
Fac Site ID (OD): 29977
Cleanup SiteID(OD): 14660
Site Rank (OD):
Has Env Coven (OD):
Respon Unit (OD): Southwest
County (OD): Clallam
Region (OD): Southwest
Longitude (OD): -123.525206
Latitude (OD): 48.118985

Contaminants Detail(s)

Contaminant Name: Petroleum-Diesel
Groundwater:
Surfacewater:
Soil: Confirmed Above Cleanup Levels
Sediment:
Air:
Bedrock:

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14 | **1 of1** | **SSE** | **0.63 / 3,300.03** | **432.67 / 124** | **Band Trucking**
2715 US 101 West
PORT ANGELES WA 98362 | **CSCSL**

Fac Site ID: 44156531
Cleanup Site ID: 9211
Site Status: Awaiting Cleanup
Site Rank:
Current VCP:
Past VCP:
Has Inst Control:
County: Clallam
Region: Southwest
Latitude: 48.1030421464077
Longitude: -123.50999686513
Site Name: Band Trucking
Address: 2715 US 101 West

Responsible Unit: Southwest
Fac Site ID (OD): 44156531
Cleanup SiteID(OD): 9211
Site Rank (OD):
Has Env Coven (OD):
Respon Unit (OD): Southwest
County (OD): Clallam
Region (OD): Southwest
Longitude (OD): -123.44963
Latitude (OD): 48.103701

City: PORT ANGELES
Zip Code: 98362
Site Status (OD): Awaiting Cleanup
Site Name (OD): BAND TRUCKING
Address (OD): HWY 101 W MP 244
City (OD): PORT ANGELES
Zipcode (OD): 98362
Location (OD): ""
(48.103701, -123.44963)
Alternate Site Names:
Data Source(s): Confirmed and Suspected Contaminated Sites; Cleanup Sites (Open Data Portal); Open Data Portal - Media and Contaminants
Site URL: https://apps.ecology.wa.gov/cleanupsearch/site/9211
Site Details URL: https://apps.ecology.wa.gov/cleanupsearch/reports/cleanup/sitedetails/9211

Contaminants Detail(s)

Contaminant Name: Petroleum-Other
Groundwater:
Surfacewater:
Soil: Confirmed Above Cleanup Levels
Sediment:
Air:
Bedrock:

Open Data Portal - Media and Contaminants as of September 2024

Contaminant: Petroleum-Other
Contaminant Media: Soil
Contaminant Status: Confirmed Above Cleanup Levels

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15 | **1 of1** | **ESE** | **0.72 / 3,782.91** | **366.55 / 58** | **Dewatto Bay Recycling (DBR) - Port Angeles**
4309 Fey Road
Port Angeles WA 98363 | **SWF/LF**

ID: 1272
Recycle Survey ID: 7442
Permit Status: Recycle Survey
Operational Status: Operating
Year Opened: 2010
Year Closed:
Ann Report Required: No
Rec Survey Required: No
Facility Type: Recycling (non-regulated)
Open to Public: No
Regulation:
Ownership: PR
Region: Southwest Regional Office
County: Clallam
Latitude:
Longitude:
Facility Phone: 360-275-2454

Details

Permit No:
Operator Organization: Dewatto Bay Recycling
Operator First Name: Earl
Operator Last Name: Iddings
Operator Title: Owner/operator
Web Address:

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16 | **1 of2** | **SE** | **0.78 / 4,143.01** | **410.89 / 103** | **PHILS FREEDOM WELDING**
2359 HWY 101 W
PORT ANGELES WA 98362 | **CSCSL**

Fac Site ID: 8466059
Cleanup Site ID: 2636
Site Status: Awaiting Cleanup
Site Rank: 4 - Low-Moderate Risk
Current VCP:
Responsible Unit: Southwest
Fac Site ID (OD): 8466059
Cleanup SiteID(OD): 2636
Site Rank (OD): 4 - Low-Moderate Risk
Has Env Coven (OD):

Past VCP:
Has Inst Control:
County: Clallam
Region: Southwest
Latitude: 48.104167
Longitude: -123.5
Respon Unit (OD): Southwest
County (OD): Clallam
Region (OD): Southwest
Longitude (OD): -123.5
Latitude (OD): 48.104167
Site Name: PHILS FREEDOM WELDING
Address: 2359 HWY 101 W
City: PORT ANGELES
Zip Code: 98362
Site Status (OD): Awaiting Cleanup
Site Name (OD): PHILS FREEDOM WELDING
Address (OD): 2359 HWY 101 W
City (OD): PORT ANGELES
Zipcode (OD): 98362
Location (OD): ""
(48.104167, -123.5)
Alternate Site Names:
Data Source(s): Confirmed and Suspected Contaminated Sites; Cleanup Sites (Open Data Portal); Open Data Portal - Media and Contaminants
Site URL: https://apps.ecology.wa.gov/cleanupsearch/site/2636
Site Details URL: https://apps.ecology.wa.gov/cleanupsearch/reports/cleanup/sitedetails/2636

Contaminants Detail(s)

Contaminant Name: Petroleum Products-Unspecified
Groundwater: Suspected
Surfacewater: Suspected
Soil: Confirmed Above Cleanup Levels
Sediment:
Air: Suspected
Bedrock:

Contaminant Name: Metals Priority Pollutants
Groundwater: Suspected
Surfacewater: Suspected
Soil: Confirmed Above Cleanup Levels
Sediment:
Air: Suspected
Bedrock:

Open Data Portal - Media and Contaminants as of September 2024

Contaminant: Petroleum Products-Unspecified
Contaminant Media: Soil
Contaminant Status: Confirmed Above Cleanup Levels

Contaminant: Metals Priority Pollutants
Contaminant Media: Groundwater
Contaminant Status: Suspected

Contaminant: Metals Priority Pollutants
Contaminant Media: Air
Contaminant Status: Suspected

Contaminant: Petroleum Products-Unspecified
Contaminant Media: Surface Water
Contaminant Status: Suspected

Contaminant: Petroleum Products-Unspecified
Contaminant Media: Air
Contaminant Status: Suspected

Contaminant: Metals Priority Pollutants
Contaminant Media: Surface Water
Contaminant Status: Suspected

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Contaminant: Petroleum Products-Unspecified
Contaminant Media: Groundwater
Contaminant Status: Suspected

Contaminant: Metals Priority Pollutants
Contaminant Media: Soil
Contaminant Status: Confirmed Above Cleanup Levels

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16 | **2 of2** | **SE** | **0.78 / 4,143.01** | **410.89 / 103** | **PHILS FREEDOM WELDING**
2359 HWY 101 W
PORT ANGELES WA 98362 | **HSL**

Fac Site ID: 8466059
Cleanup Site ID: 2636
Site Status: Awaiting Cleanup
Site Rank: 4 - Low-Moderate Risk
Has Inst Control:
Responsible Unit: Southwest
County: Clallam
Region: Southwest
Latitude: 48.104167
Longitude: -123.5
Latitude (OD): 48.104167
Longitude (OD): -123.5
Current VCP:
Location (OD): "" (48.104167, -123.5)

Fac Site ID (OD): 8466059
Cleanup Site ID (OD): 2636
Site Status (OD): Awaiting Cleanup
Site Rank (OD): 4 - Low-Moderate Risk
Has Env Coven (OD):
Respon Unit (OD): Southwest
County (OD): Clallam
Region (OD): Southwest
Site Name (OD): PHILS FREEDOM WELDING
Address (OD): 2359 HWY 101 W
City (OD): PORT ANGELES
ZIP code (OD): 98362
Past VCP:

Alternate Site Names:
Site URL: https://apps.ecology.wa.gov/cleanupsearch/site/2636
Site Details URL: https://apps.ecology.wa.gov/cleanupsearch/reports/cleanup/sitedetails/2636
Data Source(s): Confirmed and Suspected Contaminated Sites; Cleanup Sites (Open Data Portal); Open Data Portal - Media and Contaminants

Contaminants Detail(s)

Contaminant Name: Metals Priority Pollutants
Groundwater: Suspected
Surfacewater: Suspected
Air: Suspected
Sediment:
Soil: Confirmed Above Cleanup Levels
Bedrock:

Contaminant Name: Petroleum Products-Unspecified
Groundwater: Suspected
Surfacewater: Suspected
Air: Suspected
Sediment:
Soil: Confirmed Above Cleanup Levels
Bedrock:

Open Data Portal - Media and Contaminants as of September 2024

Contaminant: Metals Priority Pollutants
Contaminant Status: Suspected
Contaminant Media: Air

Contaminant: Petroleum Products-Unspecified
Contaminant Status: Suspected
Contaminant Media: Surface Water

Contaminant: Petroleum Products-Unspecified
Contaminant Status: Confirmed Above Cleanup Levels
Contaminant Media: Soil

Contaminant: Petroleum Products-Unspecified
Contaminant Status: Suspected
Contaminant Media: Air

Contaminant: Metals Priority Pollutants
Contaminant Status: Suspected
Contaminant Media: Groundwater

Contaminant: Metals Priority Pollutants
Contaminant Status: Confirmed Above Cleanup Levels
Contaminant Media: Soil

Contaminant: Metals Priority Pollutants
Contaminant Media: Surface Water

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Contaminant Status: Suspected

Contaminant: Petroleum Products-Unspecified
Contaminant Media: Groundwater
Contaminant Status: Suspected

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
17	1 of1	SE	0.83 / 4,391.77	418.83 / 110	Mel Payne Logging Yard 2358 101 W PORT ANGELES WA 98362	CSCSL

Fac Site ID: 36416355
Cleanup Site ID: 5948
Site Status: Cleanup Started
Site Rank:
Current VCP:
Past VCP: Yes
Has Inst Control:
County: Clallam
Region: Southwest
Latitude: 48.1026526266256
Longitude: -123.500422743733
Site Name: Mel Payne Logging Yard
Address: 2358 101 W
City: PORT ANGELES
Zip Code: 98362
Site Status (OD): Cleanup Started
Site Name (OD): MEL PAYNE LOGGING YARD
Address (OD): 2358 101 W
City (OD): PORT ANGELES
Zipcode (OD): 98362-9434
Location (OD): ""
(48.10301, -123.50185)
Alternate Site Names: MELS CLASSIC CARS
Data Source(s): Confirmed and Suspected Contaminated Sites; Cleanup Sites (Open Data Portal); Open Data Portal - Media and Contaminants
Site URL: https://apps.ecology.wa.gov/cleanupsearch/site/5948
Site Details URL: https://apps.ecology.wa.gov/cleanupsearch/reports/cleanup/sitedetails/5948

Responsible Unit: Southwest
Fac Site ID (OD): 36416355
Cleanup SiteID(OD): 5948
Site Rank (OD):
Has Env Coven (OD):
Respon Unit (OD): Southwest
County (OD): Clallam
Region (OD): Southwest
Longitude (OD): -123.50185
Latitude (OD): 48.10301

Contaminants Detail(s)

Contaminant Name: Petroleum Products-Unspecified
Groundwater: Suspected
Surfacewater:
Soil:
Sediment:
Air:
Bedrock:

Contaminant Name: Petroleum-Other
Groundwater:
Surfacewater:
Soil: Confirmed Above Cleanup Levels
Sediment:
Air:
Bedrock:

Open Data Portal - Media and Contaminants as of September 2024

Contaminant: Petroleum Products-Unspecified
Contaminant Media: Groundwater
Contaminant Status: Suspected

Contaminant: Petroleum-Other
Contaminant Media: Soil
Contaminant Status: Confirmed Above Cleanup Levels

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
18	1 of1	ENE	0.87 / 4,594.68	251.30 / -57	UNNAMED PIT CLALLAM COUNTY PORT ANGELES WA 98363	MRDS

Dep ID:	10301458	**I1:**	21
Dev Status:	PAST PRODUCER	**Latitude:**	48.123108
Code List:	SDG	**Longitude:**	-123.496887
Url:	http://mrdata.usgs.gov/mrds/show-mrds.php?dep_id=10301458		

Commodity

I1:	46	**Line:**	1
Code:	SDG	**Inserted By:**	MAS migration
Commodity:	Sand and Gravel, Cons	**Insert Date:**	29-OCT-02
Commodity Type:	Non-metallic	**Updated By:**	USGS
Commodity Group:	Sand and Gravel	**Update Date:**	29-OCT-02
Importance:	Primary		

Names

I1:	38	**Inserted By:**	MAS migration
Status:	Previous	**Insert Date:**	29-OCT-02
Site Name:	Unnamed Sand and Gravel	**Updated By:**	USGS
Line:	2	**Update Date:**	29-OCT-02

Names

I1:	10	**Inserted By:**	MAS migration
Status:	Current	**Insert Date:**	29-OCT-02
Site Name:	Unnamed Pit	**Updated By:**	USGS
Line:	1	**Update Date:**	29-OCT-02

Unplottable Summary

Total: 0 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID

No unplottable records were found that may be relevant for the search criteria.

Unplottable Report

No unplottable records were found that may be relevant for the search criteria.

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

National Priority List: NPL

The U.S. Environmental Protection Agency (EPA)'s National Priorities List (NPL) includes the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program, based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. This data includes NPL sites represented as polygons, where available, that can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. As site investigation and remediation progress, OUs may be added, modified or refined. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Sep 25, 2024

National Priority List - Proposed: PROPOSED NPL

Sites proposed by the U.S. Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites represented as polygons, where available, can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Sep 25, 2024

Deleted NPL: DELETED NPL

Sites deleted from the U.S. Environmental Protection Agency (EPA)'s National Priorities List (NPL). The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Sites represented as polygons, where available, can be sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). These site boundaries represent the footprint of a whole site, the sum of all the Operable Units (OUs) and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Sep 25, 2024

SEMS List 8R Active Site Inventory: SEMS

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the EPA's Facility Registry Service map tool.

Government Publication Date: Jul 24, 2024

SEMS List 8R Archive Sites: SEMS ARCHIVE

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

Government Publication Date: Jul 24, 2024

Inventory of Open Dumps, June 1985: ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

EPA Report on the Status of Open Dumps on Indian Lands: IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS: CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

CERCLIS - No Further Remedial Action Planned: CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens: CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action: RCRA CORRACTS

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Oct 21, 2024

RCRA non-CORRACTS TSD Facilities: RCRA TSD

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites that have indicated engagement in the treatment, storage, or disposal of hazardous waste which requires a RCRA hazardous waste permit.

Government Publication Date: Oct 21, 2024

RCRA Generator List: RCRA LQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Oct 21, 2024

RCRA Small Quantity Generators List: RCRA SQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Oct 21, 2024

RCRA Very Small Quantity Generators List: RCRA VSQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Oct 21, 2024

RCRA Non-Generators: RCRA NON GEN

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Oct 21, 2024

RCRA Sites with Controls: RCRA CONTROLS

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Oct 21, 2024

Federal Engineering Controls-ECs: FED ENG

List of Engineering controls (ECs) made availabe by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Sep 25, 2024

Federal Institutional Controls- ICs: FED INST

List of Institutional controls (ICs) made available by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Sep 25, 2024

Land Use Control Information System: LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites: NPL IC

These boundaries of Institutional Control areas at sites on the U.S. Environmental Protection Agency's (EPA) National Priorities List (NPL), or as Proposed or Deleted, are sourced from the EPA NPL Superfund Site Boundaries dataset, refreshed by the Shared Enterprise Geodata and Services (SEGS). The EPA's NPL includes the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Data provided by external parties is not independently verified by EPA. This boundary data is made available to the public strictly for informational purposes.

Government Publication Date: Sep 25, 2024

Emergency Response Notification System: ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System: ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System: ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Oct 15, 2024

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database: FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

Government Publication Date: Feb 7, 2024

FEMA Underground Storage Tank Listing: FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan: FRP

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (EPA). Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit FRPs. Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. This listing includes FRP facilities from an applicable EPA FOIA file and Homeland Infrastructure Foundation-Level Data (HIFLD) data file.

Government Publication Date: Jan 9, 2024

Delisted Facility Response Plans: DELISTED FRP

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Jan 9, 2024

Historical Gas Stations: HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries: REFN

This list of petroleum refineries is sourced from the U.S. Energy Information Administration (EIA), Refinery Capacity Report. The listing includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year. The geographic area the report covers is the 50 States, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, Guam, and other U.S. possessions. Per the EIA, the facility location data represents the approximate location based on research of publicly available information from sources such as Federal agencies, company websites, and satellite images on public websites.

Government Publication Date: Jun 6, 2024

Petroleum Product and Crude Oil Rail Terminals: BULK TERMINAL

A list of petroleum product and crude oil rail terminals from the U.S. Energy Information Administration (EIA), as well as petroleum terminals sourced from the Federal Communications Commission Data hosted by the Homeland Infrastructure Foundation-Level Database. Data includes operable bulk petroleum product terminals with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil with activity between 2017 and 2018. EIA petroleum product terminal data comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings.

Government Publication Date: Jun 6, 2024

LIEN on Property: SEMS LIEN

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

Government Publication Date: Jul 24, 2024

Superfund Decision Documents: SUPERFUND ROD

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

Government Publication Date: Oct 24, 2024

Formerly Utilized Sites Remedial Action Program: DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

State

Hazardous Sites List: HSL

Washington State Department of Ecology (DEC) records of sites that have been assessed and ranked using the Washington Ranking Method (WARM score) - a number between 1 and 5, where a score of 1 represents the highest level of risk and 5 the lowest. Some factors that enter into site hazard ranking include: the amount and type of contaminants present; how easily contaminants could come into contact with people and the environment; and the level of public concern. This database serves a purpose similar to that of the federal NPL, functioning as a state-level counterpart for prioritizing cleanup efforts at hazardous substance release sites.

Government Publication Date: Sep 11, 2024

Confirmed and Suspected Contaminated Sites List: CSCSL

This list of Confirmed and Suspected Contaminated Sites is made available by the Washington State Department of Ecology (DEC). The listing includes sites being cleaned up, waiting to be cleaned up, or that need more investigation. Most contaminated sites are handled by the DEC's Toxics Cleanup Program and are cleaned up under Washington's environmental cleanup law, the Model Toxics Control Act (MTCA). Property owners may clean up sites independently or under DEC supervision; the DEC can also clean up sites. This database serves a purpose similar to that of the federal Superfund Enterprise Management System (SEMS), functioning as a state-level counterpart for tracking potential hazardous substance release sites.

Government Publication Date: Sep 11, 2024

Delisted Confirmed and Suspected Contaminated Sites: DELISTED SHWS

This database contains a list of Confirmed & Suspected Contaminated Sites that were removed from the Washington State Department of Ecology (DEC).

Government Publication Date: Sep 11, 2024

No Further Action Sites List: CSCSL NFA

A list of sites previously on the Washington State Department of Ecology (DEC) Confirmed and Suspected Contaminated Sites List (CSCSL) that have received a No Further Action (NFA) determination.

Government Publication Date: Sep 11, 2024

Solid Waste Facility Database: SWF/LF

List of permitted solid waste and landfill facilities made available by the Washington Department of Ecology (DEC).

Government Publication Date: Aug 21, 2024

Recycling Facilities: RECYCLERS

The Washington State Department of Ecology maintains this database of recycling opportunities available in Washington State.

Government Publication Date: Jun 20, 2024

Solid Waste Tire Facilities: WASTE TIRE

The Washington State Department of Ecology maintains this database of waste tire recycling opportunities available in Washington State.

Government Publication Date: Nov 13, 2024

Leaking Underground Storage Tank (LUST) List: LUST

Leaking Underground Storage Tank (LUST) list made available by the Washington Department of Ecology (DEC) contains information about underground storage tank facilities that require cleanup and their cleanup history.

Government Publication Date: Sep 11, 2024

Petroleum Technical Assistance Program Projects: LUST PTAP

Under the State of Washington's cleanup law, qualifying petroleum contaminated sites can apply for the Pollution Liability Insurance Agency's (PLIA) Technical Assistance Program (TAP). The TAP assists underground storage tank (UST) owners and operators with advice and guidance on petroleum cleanups associated with eligible gasoline/diesel UST systems or heating oil tank systems. For TAP Projects, the PLIA only accepts gasoline/diesel sites that do not impact surface water or sediment and are not co-mingled with other, non-petroleum contaminants. Opinion letters are provided which may issue a No Further Action (NFA), Further Action (FA), or Partial Sufficiency (PS) based on the PLIA's review and the requirements of the state cleanup regulations, chapter 173-340 WAC, the Model Toxics Control Act (MTCA). For completed cleanups which meet MTCA requirements, an NFA opinion is issued which may be helpful with property transfers.

Government Publication Date: Aug 29, 2024

UST Loan and Grant Program: UST LOAN

List of sites that have applied to the Pollution Liability Insurance Agency's (PLIA) UST Loan and Grant Program. PLIA partners with the Washington State Department of Health (DOH) to provide loans or grants to owners or operators of underground storage tank (UST) facilities, who wish to: upgrade/replace infrastructure, clean up contamination, or close a UST. Within the program, PLIA provides oversight and technical assistance, while the DOH operates the lending/repayment process.

Government Publication Date: Aug 29, 2024

Heating Oil Technical Assistance Program: LST HOT

Within the Pollution Liability Insurance Agency's (PLIA) various programs, the Heating Oil Technical Assistance Program (HOTAP) provides assistance to owners and operators of active and abandoned heating oil tanks if there is a suspected release or contamination. PLIA provides services including: written opinions, observations of testing, site assessments, and reviews of the results of reports and other appropriate activities. Information in some records has been redacted by the Pollution Liability Insurance Agency under Washington State Legislature RCW 70.149.080. As of March 4, 2022 the PLIA stopped maintaining this list.

Government Publication Date: Jun 22, 2022

Underground Storage Tanks: UST

List of Underground Storage Tanks (USTs) made available by Washington Department of Ecology (DEC). The DEC regulates tanks at facilities including gas stations, industries, commercial properties and governmental entities. The DEC works to ensure these tanks are installed, managed, and monitored in a manner that prevents releases into the environment.

Government Publication Date: Sep 11, 2024

Delisted Leaking Storage Tanks: DELISTED LST

List of leaking storage tanks made available by the Washington Department of Ecology (DEC). A record would be removed if it violated the Facility Oil Handling Standards. This list contains all the records that been removed from the storage tank list.

Government Publication Date: Sep 11, 2024

Aboveground Storage Tanks: AST

List of aboveground storage tanks (ASTs) made available by the Washington Department of Ecology (DEC). This list includes many of the largest petroleum containing ASTs in Washington state, but there are many ASTs in many different types of services (including, for example, hydrocarbon storage), that are not subject to regulation and are not registered by the DEC. There is no inclusive AST regulation in Washington state, and the Department of Ecology ceased maintenance of this list in December 2015.

Government Publication Date: Dec 14, 2015

Spills Program Regulated Facilities: AST SPL PREV

List of Class 1, 2, 3, and 4 regulated facilities. The Washington Department of Ecology regulates the equipment and oil transfer, storage, and handling at facilities to ensure environmental and public health. Depending on their classification (Class 1 Large facilities such as refineries, refueling terminals, and pipelines; Class 2 and Class 3 facilities that transfer oil; and Class 4 Marinas and other facilities that transfer oil to non-recreation vessels with a fuel capacity of less than 10,500 gallons), these facilities are required to have some type of spill prevention plan.

Government Publication Date: Oct 8, 2024

Delisted Storage Tanks: DELISTED TNK

List of aboveground storage tanks made available by the Washington Department of Ecology (DEC). A record would be removed if it violated the Facility Oil Handling Standards. This list contains all the records that been removed from the storage tank list.

Government Publication Date: Oct 8, 2024

Environmental Covenants Institutional Controls: INST

List of sites that have institutional controls or environmental covenants (64.70 RCW Uniform Environmental Covenants Act) made available by the State of Washington Department of Ecology. Institutional controls are administrative or legal measures used to prevent activities that may compromise the integrity of a cleanup action. They are meant to prevent exposure to contamination remaining on site. Institutional controls may include environmental covenants (also known as 'deed restrictions'), zoning restrictions, public health advisories, or other administrative tools. The most common institutional control is an environmental covenant. Environmental covenants are legal recorded documents that typically limit certain uses of the property.

Government Publication Date: Sep 11, 2024

Voluntary Cleanup Program: VCP

List of sites under the Voluntary Cleanup Program (VCP) made available by the Washington Department of Ecology (DEC). The VCP is an option for cleaning up hazardous waste sites under the state's cleanup law.

Government Publication Date: Sep 11, 2024

Brownfields Program: BROWNFIELDS

List of Brownfields sites made available by the Washington Department of Ecology (DEC). Brownfield sites are abandoned or underused properties where potential liability due to environmental contamination and cleanup costs complicate re-development efforts.
Government Publication Date: Sep 11, 2024

Tribal

Leaking Underground Storage Tanks on Tribal/Indian Lands: INDIAN LUST
This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 10, which includes Washington, is made available by the United States Environmental Protection Agency (EPA).
Government Publication Date: May 7, 2024

Underground Storage Tanks on Tribal/Indian Lands: INDIAN UST
This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 10, which includes Washington, is made available by the United States Environmental Protection Agency (EPA).
Government Publication Date: May 7, 2024

Delisted Tribal Leaking Storage Tanks: DELISTED INDIAN LST
Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).
Government Publication Date: May 7, 2024

Delisted Tribal Underground Storage Tanks: DELISTED INDIAN UST
Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).
Government Publication Date: May 7, 2024

County

No County databases were selected to be included in the search.

Additional Environmental Record Sources

Federal

PFAS Greenhouse Gas Emissions Data: PFAS GHG
The U.S. Environmental Protection Agency's Greenhouse Gas Reporting Program (GHGRP) collects Greenhouse Gas (GHG) data from large emitting facilities (25,000 metric tons of carbon dioxide equivalent (CO2e) per year), and suppliers of fossil fuels and industrial gases that results in GHG emissions when used. Includes GHG emissions data for facilities that emit or have emitted since 2010 chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures by DSSTox. PFAS emissions data has been identified for facilities engaged in the following industrial processes: Aluminum Production (GHGRP Subpart F), HCFC-22 Production and HFC-23 Destruction (Subpart O), Electronics Manufacturing (Subpart I), Fluorinated Gas Production (Subpart L), Magnesium Production (Subpart T), Electrical Transmission and Distribution Equipment Use (Subpart DD), and Manufacture of Electric Transmission and Distribution Equipment (Subpart SS). Over time, other industrial processes with required GHGRP reporting may include PFAS emissions data and the list of reportable gases may change over time.
Government Publication Date: Aug 5, 2024

On-Scene Coordinator Response Sites: OSC RESPONSE
This list of On-Scene Coordinator (OSC) Response Sites is provided by the U.S. Environmental Protection Agency (EPA). OSCs are the federal officials responsible for monitoring or directing responses to all oil spills and hazardous substance releases reported to the federal government. OSCs coordinate all federal efforts with, and provide support and information to local, state, and regional response communities. An OSC is an agent of either EPA or the U.S. Coast Guard (USCG), depending on where the incident occurs. EPA's OSCs have primary responsibility for spills and releases to inland areas and waters. USCG OSCs have responsibility for coastal waters and the Great Lakes. In general, an OSC has the following key responsibilities during and after a response: Assessment, Monitoring, Response Assistance, and Evaluation.
Government Publication Date: Apr 4, 2024

Facility Registry Service/Facility Index: FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the U.S. Environmental Protection Agency (EPA).
Government Publication Date: Aug 1, 2024

Toxics Release Inventory (TRI) Program: TRIS

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment. This database includes TRI Reporting Data for calendar years 1987 through 2021 and Preliminary Data for 2022.
Government Publication Date: Sep 20, 2023

PFOA/PFOS Contaminated Sites: PFAS NPL

This list of Superfund Sites with Per- and Polyfluoroalkyl Substances (PFAS) detections is made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data, previously the list was obtained by EPA FOIA requests. EPA's Office of Land and Emergency Management and EPA Regional Offices maintain what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment. Limitations: Detections of PFAS at National Priorities List (NPL) sites do not mean that people are at risk from PFAS, are exposed to PFAS, or that the site is the source of the PFAS. The information in the Superfund NPL and Superfund Alternative Agreement (SAA) PFAS detection site list is years old and may not be accurate today. Site information such as site name, site ID, and location has been confirmed for accuracy; however, PFAS-related information such as media sampled, drinking water being above the health advisory, or mitigation efforts has not been verified. For Federal Facilities data, the other Federal agencies (OFA) are the lead agency for their data and provided them to EPA.
Government Publication Date: Sep 18, 2024

Federal Agency Locations with Known or Suspected PFAS Detections: PFAS FED SITES

List of Federal agency locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS), made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data. EPA outlines that these data are gathered from several federal entities, such as the Federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration, Department of Transportation, and Department of Energy. The dates this data was extracted for the PFAS Analytic Tools range from 2022 to 2024. Sites on this list do not necessarily reflect the source/s of PFAS contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.
Government Publication Date: Jul 22, 2024

SSEHRI PFAS Contamination Sites: PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the PFAS Project Lab, part of the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents. Locations for the Known PFAS Contamination Sites are sourced from the PFAS Sites and Community Resources Map by the PFAS-REACH team, credited to PFAS Project Lab, Silent Spring Institute, and PFAS Exchange. Disclaimer: The source conveys the data undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Access the following source link for the most current information: https://pfasproject.com/pfas-sites-and-community-resources/
Government Publication Date: Jun 27, 2024

National Response Center PFAS Spills: PFAS ERNS

This Per- and Poly-Fluoroalkyl Substances (PFAS) Spills dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The National Response Center (NRC), operated by the U.S. Coast Guard, is the designated federal point of contact for reporting all oil, chemical, and other discharges into the environment, for the United States and its territories. This dataset contains NRC spill information from 1990 to the present that is restricted to records associated with PFAS and PFAS-containing materials. Incidents are filtered to include only records with a "Material Involved" or "Incident Description" related to Aqueous Film Forming Foam (AFFF). The keywords used to filter the data included "AFFF," "Fire Fighting Foam," "Aqueous Film Forming Foam," "Fire Suppressant Foam, "PFAS," "PERFL," "PFOA," "PFOS," and "Genx." Limitations: The data from the NRC website contains initial incident data that has not been validated or investigated by a federal/state response agency. Keyword searches may misidentify some incident reports that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS spills/release incidents.
Government Publication Date: Sep 23, 2024

PFAS NPDES Discharge Monitoring: PFAS NPDES

This list of National Pollutant Discharge Elimination System (NPDES) permitted facilities with required monitoring for Per- and Polyfluoroalkyl (PFAS) Substances is made available via the U.S. Environmental Protection Agency (EPA)'s PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for Per- and Polyfluoroalkyl Substances (PFAS), limited to the years 2007 - present. EPA further advises the following regarding these data: currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis.

Government Publication Date: Sep 30, 2024

Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory: PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a per- or polyfluoroalkyl (PFAS) substance included in the U.S. Environmental Protection Agency's (EPA) consolidated PFAS Master List of PFAS Substances. Encompasses Toxics Release Inventory records included in the EPA PFAS Analytic Tools. The EPA's TRI database currently tracks information on disposal or releases of 770 individually listed toxic chemicals and 33 chemical categories from thousands of U.S. facilities and details about how facilities manage those chemicals through recycling, energy recovery, and treatment. This listing includes TRI Reporting Data for calendar years 1987 through 2021 and Preliminary Data for 2022.

Government Publication Date: Sep 20, 2023

PFAS Water Quality Portal Sampling Data: PFAS WATER

This Per- and Poly-Fluoroalkyl Substances (PFAS) Environmental Media Sampling Data is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The Water Quality Portal (WQP), as a cooperative service sponsored by the United States Geological Survey, the EPA, and the National Water Quality Monitoring Council, is part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations, and individuals submit project details and sampling results to this public repository. Limitations: EPA did not carry out the sampling or testing of a majority of the data in the WQP PFAS dataset. EPA can only speak to the accuracy and completeness of the data from projects like the National Aquatic Resource Surveys for which EPA is the data owner/organization. Data may exist within the file on Quality Assurance Project Plans (QAPPs) and the approving agency of the QAPP, if a QAPP is entered.

Government Publication Date: Jul 22, 2024

PFAS TSCA Manufacture and Import Facilities: PFAS TSCA

The U.S. Environmental Protection Agency (EPA) issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. This list is specific only to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl (PFAS) substances. Data file is sourced from EPA's PFAS Analytic Tools TSCA dataset which includes CDR/Inventory Update Reporting data from 1998 up to 2020. Disclaimer: This data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information.

Government Publication Date: Jan 5, 2023

PFAS Waste Transfers from RCRA e-Manifest : PFAS E-MANIFEST

This Per- and Poly-Fluoroalkyl Substances (PFAS) Waste Transfers dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. Every shipment of hazardous waste in the U.S. must be accompanied by a shipment manifest, which is a critical component of the cradle-to-grave tracking of wastes mandated by the Resource Conservation and Recovery Act (RCRA). According to the EPA, currently no Federal Waste Code exists for any PFAS compounds. To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: • PFAS • PFOA • PFOS • PERFL • AFFF • GENX • GEN-X (plus the Vermont state-specific waste codes). Limitations: Amount or concentration of PFAS being transferred cannot be determined from the manifest information. Keyword searches may misidentify some manifest records that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS waste transfers.

Government Publication Date: Sep 22, 2024

PFAS Industry Sectors: PFAS IND

This Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Sectors dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The EPA developed the dataset from various sources that show which industries may be handling PFAS including: EPA's Enforcement and Compliance History Online (ECHO) records restricted to potential PFAS-handling industry sectors; ECHO records for Fire Training Sites identified where fire-fighting foam may have been used in training exercises; and 14 CFR Part 139 Airports compiled from historic and current records from the FAA Airport Data and Information Portal. Since July 2006, all certificated Part 139 Airports are required to have fire-fighting foam onsite that meet certain military specifications, which to date have been fluorinated (Aqueous Film Forming Foam). Limitations: Inclusion in this dataset does not indicate that PFAS are being manufactured, processed, used, or released by the facility. Listed facilities potentially handle PFAS based on their industrial profile, but are unconfirmed by the EPA. Keyword searches in ECHO for Fire Training sites may misidentify some facilities and should not be considered to be an exhaustive list of fire training facilities in the U.S.

Government Publication Date: Sep 23, 2024

Hazardous Materials Information Reporting System: HMIRS

The Hazardous Materials Incident Reporting System (HMIRS) database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration.

Government Publication Date: May 29, 2024

National Clandestine Drug Labs: NCDL

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Nov 30, 2023

Toxic Substances Control Act: TSCA

The U.S. Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule. The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI). EPA CDR collections occur approximately every four years and reporting requirements change per collection.

Government Publication Date: May 12, 2022

Hist TSCA: HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing: FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing: FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List: PRP

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

Government Publication Date: Jul 24, 2024

State Coalition for Remediation of Drycleaners Listing: SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS): ICIS

The Integrated Compliance Information System (ICIS) database contains integrated enforcement and compliance information across most of U.S. Environmental Protection Agency's (EPA) programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained by the EPA Headquarters and at the Regional offices. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.

Government Publication Date: Apr 13, 2024

Drycleaner Facilities: FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. The EPA tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: May 5, 2024

Delisted Drycleaner Facilities: DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: May 5, 2024

Formerly Used Defense Sites: FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset which applies to the Fiscal Year 2021 FUDS Inventory.

Government Publication Date: May 15, 2023

FUDS Munitions Response Sites: FUDS MRS

Boundaries of Munitions Response Sites (MRS), published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial MRS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) MRS dataset.

Government Publication Date: May 15, 2023

Former Military Nike Missile Sites: FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents: PIPELINE INCIDENT

This list of flagged pipeline incidents is made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types. Accidents reported on hazardous liquid gravity lines (§195.13) and reporting-regulated-only hazardous liquid gathering lines (§195.15) and incidents reported on Type R gas gathering (§192.8(c)) are not included in the flagged incident file data.

Government Publication Date: May 6, 2024

Material Licensing Tracking System (MLTS): MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites: HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File: MINES

The Master Index File (MIF) is provided by the United States Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: Feb 5, 2024

Surface Mining Control and Reclamation Act Sites: SMCRA

This inventory of land and water impacted by past mining (primarily legacy coal mining operations) is maintained by the U.S. Department of the Interior's Office of Surface Mining Reclamation and Enforcement (OSMRE), as it provides information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). This inventory contains information on the type and extent of Abandoned Mine Land (AML) Problems, as well as information on the cost associated with the reclamation of those problems. The data is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed. Disclaimer: Per the OSMRE, States and tribes who enter their data into e-AMLIS (AML Inventory System) may truncate their latitude and longitude so the precise location of usually dangerous AMLs is not revealed in an effort to protect the public from searching for these AMLs, most of which are on private property. If more precise location information is needed, please contact the applicable state/tribe of interest.

Government Publication Date: May 20, 2024

Mineral Resource Data System: MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

DOE Legacy Management Sites: LM SITES

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Tile II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: Dec 12, 2023

Alternative Fueling Stations: ALT FUELS

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG), and Renewable Diesel (R20 and above) fuel type locations.

Government Publication Date: Aug 29, 2024

Superfunds Consent Decrees: CONSENT DECREES

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Cases filed since 2010 limited to the following: Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS); and applicable ENRD's Environmental Defense Section (EDS) CERCLA Cases with "Consent" in History Note. CMS may not reflect the latest developments in a case, nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Jun 26, 2024

Air Facility System: AFS

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments: SSTS

This national list of active EPA-registered foreign and domestic pesticide and/or device-producing establishments is based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that each producing establishment must place its EPA establishment number on the label or immediate container of each pesticide, active ingredient or device produced. An EPA establishment number on a pesticide product label identifies the EPA registered location where the product was produced. The list of establishments is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Feb 29, 2024

Polychlorinated Biphenyl (PCB) Transformers: PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers: PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: May 23, 2024

Power Plants: POWER PLANTS

This list of power plants is provided by the U.S. Energy Information Administration (EIA). The listing includes operable electric generating plants in the United States by energy source, originating from the EIA-860, Annual Electric Generator Report; EIA-860M, Monthly Update to the Annual Electric Generator Report; and EIA-923, Power Plant Operations Report. It includes all operable plants by energy source with a combined nameplate capacity of 1 megawatt or more that are operating, are on standby, or out of service for short- or long-term.

Government Publication Date: Apr 15, 2024

State

PFAS Confirmed or Suspected Contaminated Sites: PFAS CONF-SUSP

This list of sites with confirmed or suspected Per- and Polyfluoroalkyl Substances (PFAS) contamination is made available by the Washington Department of Ecology (DEC). The contaminant-filtered list contains information on applicable sites that are undergoing cleanup and sites that are awaiting further investigation and/or cleanup. Sites on this list have received an Initial Investigation; when sites receive a No Further Action determination, they are removed from this list.

Government Publication Date: Aug 29, 2024

Spills Incidents Sites: SPILLS

List of spills and/or releases reported to the Washington Department of Ecology (DEC).

Government Publication Date: Jul 15, 2024

Reported Spills to Water: SPILLS WATER

A list of reported spills to water of one gallon or more made available by the Washington Department of Ecology.

Government Publication Date: Oct 8, 2024

Facility/Site Identification System: ALL SITES

The Facility/Site Identification System made available by the Department of Ecology (DEC) provides a central repository of key information for each facility/site of interest to DEC. The DEC has defined a facility/site as an operation at a fixed location that is of interest to the agency because it has an active or potential impact upon the environment.

Government Publication Date: Jul 15, 2024

Environmental Report Tracking System (ERTS): ERTS

A list of incidents from the Environmental Report Tracking System (ERTS), used by various programs within the Washington Department of Ecology (DEC) to track incidents and activities. This list is made available by the Washington Department of Ecology (DEC).

Government Publication Date: Mar 6, 2024

Independent Cleanup Reports: ICR

List of facilities in remedial action reports received by the Washington Department of Ecology (DEC) from either the owner or operator of the site. These actions have been conducted without department oversight or approval and are not under an order or decree. Independent Cleanup is historical terminology for Voluntary Cleanup; this data is no longer updated, current records can be found in Voluntary Cleanup.

Government Publication Date: Nov 6, 2015

Registered Drycleaners List: DRYCLEANERS

A listing of registered drycleaner facilities maintained by the Department of Ecology.

Government Publication Date: Jul 11, 2024

Delisted Drycleaners: DELISTED DRYCLEANERS

Sites which once appeared on the list of registered drycleaner facilities made available by the Department of Ecology.

Government Publication Date: Jul 11, 2024

Tier 2 Report: TIER 2

List of facilities that report storage of hazardous chemicals or materials to the Department of Ecology's Hazardous Waste and Toxics Reduction Program under the Emergency Planning and Community Right to Know Act (EPCRA).

Government Publication Date: Dec 22, 2023

Clandestine Drug Lab Sites: CDL

A list of Clandestine Drug Lab sites made available by the Washington Department of Health.

Government Publication Date: May 7, 2024

Clandestine Drug Lab Sites - Historical Listing: HIST CDL

List of Clandestine Drug Lab sites reported to the Department of Health from local health departments. This list contains sites that are not in the current list.

Government Publication Date: until 2007

Air Permitted Facilities: AIR PERMITS

This list of air emissions inventory is a point source summary of individual inventories from facilities with air operating permits. This list is maintained by the Washington Department of Ecology.

Government Publication Date: Aug 23, 2024

Underground Injection Control Wells: UIC

The Water Quality Program of the Washington State Department of Ecology (DEC) maintains this water quality permit database that includes Underground Injection Control (UIC) wells. According to the DEC, UIC wells are manmade structures used to discharge fluids into the subsurface. Examples are drywells, infiltration trenches with perforated pipe, and any structure deeper than the widest surface dimension. The majority of UIC wells in Washington are used to manage storm water and sanitary waste, return water to the ground, and help clean up contaminated sites. The potential for groundwater contamination from injection wells depends upon well construction and location; quality of the fluids injected; and the geographic and hydrologic settings in which the injection occurs.

Government Publication Date: Sep 19, 2024

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental databases were selected to be included in the search.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

HISTORICAL AERIALS

Project Property:

W. Edgewood Dr and S. Critchfield Rd
Sequim WA

Project No: PNR0651RW1/1111A PO#1713

Requested By: Geosyntec Consultants

Order No: 24121300691

Date Completed: December 18,2024

Aerial Maps included in this report are produced by the sources listed above and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property. ERIS provides no warranty of accuracy or liability. The information contained in this report has been produced using aerial photos listed in above sources by ERIS Information Inc. (in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS'. The maps contained in this report do not purport to be and do not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Date	Source	Scale	Comments
2023	Maxar Technologies	1" = 500'	
2021	United States Department of Agriculture	1" = 500'	
2020	United States Department of Agriculture	1" = 500'	
2017	United States Department of Agriculture	1" = 500'	
2015	United States Department of Agriculture	1" = 500'	
2013	United States Department of Agriculture	1" = 500'	
2011	United States Department of Agriculture	1" = 500'	
2009	United States Department of Agriculture	1" = 500'	
2006	United States Department of Agriculture	1" = 500'	
2005	United States Department of Agriculture	1" = 500'	
2004	United States Department of Agriculture	1" = 500'	
1994	United States Geological Survey	1" = 500'	
1990	United States Geological Survey	1" = 500'	Best Copy Available
1981	United States Geological Survey	1" = 500'	
1976	United States Geological Survey	1" = 500'	
1963	Agricultural Stabilization & Conserv. Service	1" = 500'	
1956	Army Mapping Service	1" = 500'	
1944	Army Corps of Engineers	1" = 500'	
1939	United States Geological Survey	1" = 500'	

Year: 2023
Source: MAXAR
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 2021
Source: USDA
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 2020
Source: USDA
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 2017
Source: USDA
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 2015
Source: USDA
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 2013
Source: USDA
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 2011
Source: USDA
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 2009
Source: USDA
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 2006
Source: USDA
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 2005
Source: USDA
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 2004
Source: USDA
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 1994
Source: USGS
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

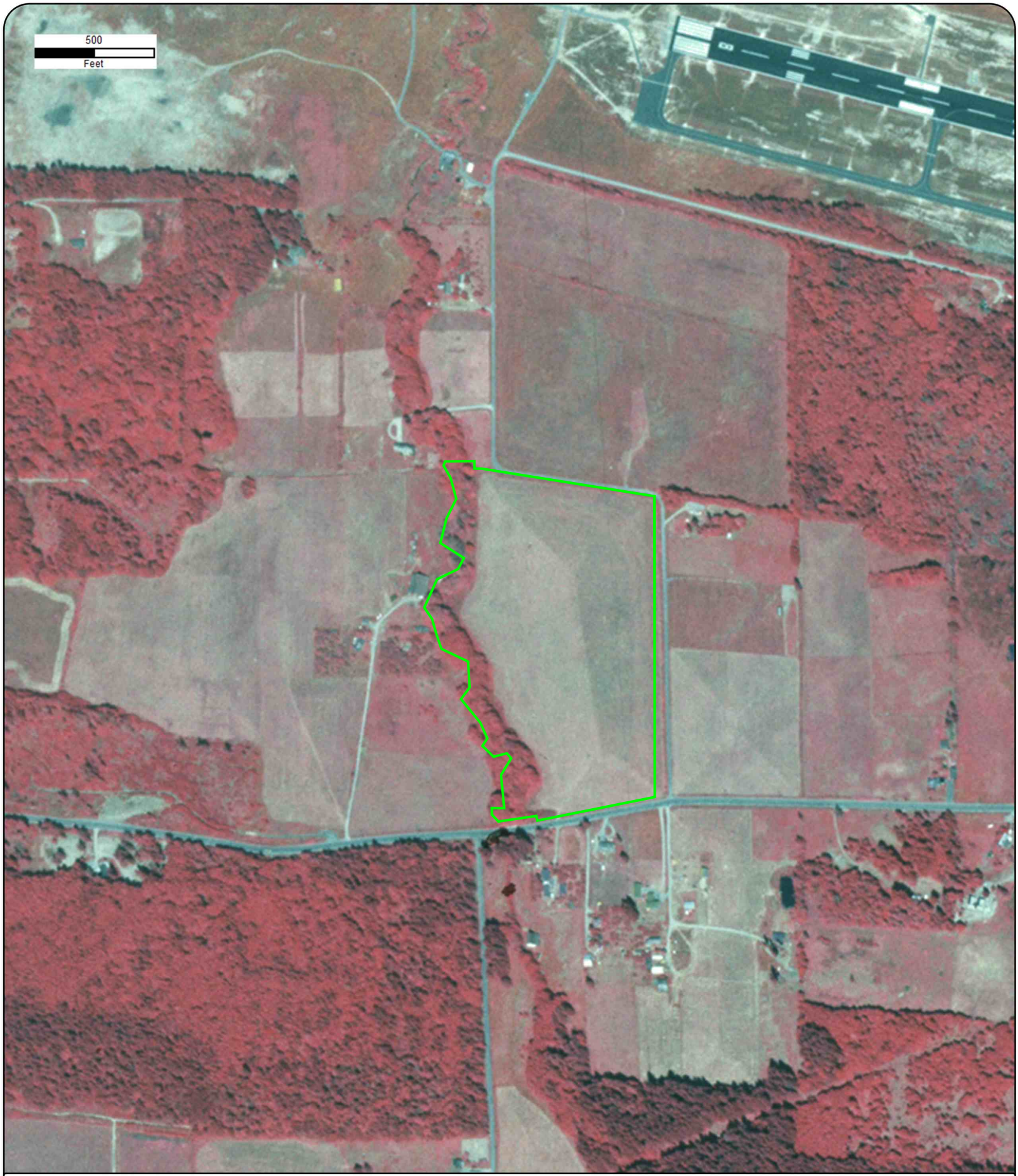
ERIS

Year: 1990
Source: USGS
Scale: 1" = 500'
Comment: Best Copy Available

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS



Year: 1981
Source: USGS
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 1976
Source: USGS
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 1963
Source: ASCS
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

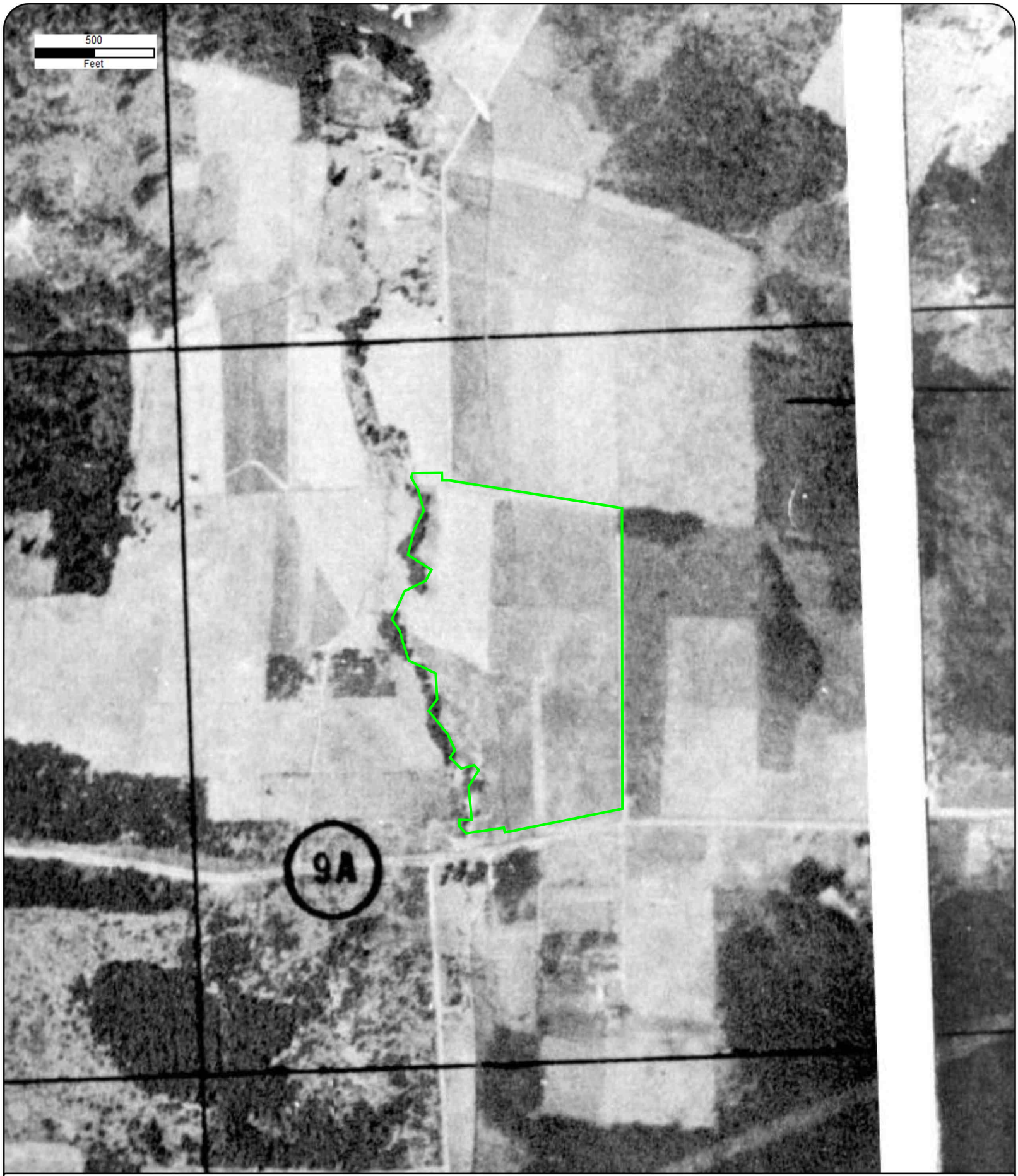
ERIS

Year: 1956
Source: AMS
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS



Year: 1944
Source: USACE
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

Year: 1939
Source: USGS
Scale: 1" = 500'
Comment:

Address: W. Edgewood Dr and S. Critchfield Rd, Sequim, WA
Approx Center: -123.5135601,48.11386869

Order No: 24121300691

ERIS

ERIS

CITY DIRECTORY

Project Property:	
	W. Edgewood Dr and S. Critchfield Rd
	Port Angeles,WA
Project No:	*PNR0651RW1/1111A PO#1713*
Requested By:	*Geosyntec Consultants*
Order No:	*24121300691*
Date Completed:	*December 20, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

December 20, 2024
RE: CITY DIRECTORY RESEARCH
W. Edgewood Dr and S. Critchfield Rd
Port Angeles,WA

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:
All of S Critchfield Rd
2300-3650 of W Edgewood Dr
Search Notes:

Search Results Summary

Date	Source	Comment
2023	DIGITAL BUSINESS DIRECTORY	
2020	DIGITAL BUSINESS DIRECTORY	
2016	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	DIGITAL BUSINESS DIRECTORY	
2003	DIGITAL BUSINESS DIRECTORY	
2000	DIGITAL BUSINESS DIRECTORY	
1995	POLKS	
1991	POLKS	
1988	POLKS	
1984	POLKS	
1980	POLKS	
1975	POLKS	
1970	POLKS	
1965	POLKS	
1962	POLKS	
1959	POLKS	
1956	POLKS	
1952	POLKS	
1948	POLKS	
1941	POLKS	
1936	POLKS	

2023 S CRITCHFIELD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

3405 **JAMES CRITCHFIELD**...*RESIDENTIAL*
3511 **RAY STOSSEL**...*RESIDENTIAL*
3611 **DANIEL HJELMESETH**...*RESIDENTIAL*

2023 W EDGEWOOD DR

SOURCE: DIGITAL BUSINESS DIRECTORY

2354 **EDWIN BAIER**...*RESIDENTIAL*
2354 **JOCELYN BAIER**...*RESIDENTIAL*
2409 **DANIEL PRINGLE**...*RESIDENTIAL*
2414 **JODI KELLER**...*RESIDENTIAL*
2417 **ANGELA REYNOLDS**...*RESIDENTIAL*
2418 **SHANNON ROBB**...*RESIDENTIAL*
2432 **AMANDA LOWE**...*RESIDENTIAL*
2432 **DIXON LOWE**...*RESIDENTIAL*
2434 **KERRY ALWARD**...*RESIDENTIAL*
2443 **TAMMI SHELTON**...*RESIDENTIAL*
2446 **BOE ANDRUS**...*RESIDENTIAL*
2446 **LISANDRA GLYNN**...*RESIDENTIAL*
2447 **DIGGIN IT! LLC**...*EXCAVATING CONTRACTORS*
2447 **TRUDY ROBBINS**...*RESIDENTIAL*
2536 **CLAUD WILSON**...*RESIDENTIAL*
2808 **PHYLLIS RASLER**...*RESIDENTIAL*
2824 **AWESOME COSTUMES**...*COSTUMES-MASQUERADE & THEATRICAL*
2824 **BEV WILSON**...*RESIDENTIAL*
2830 **CINDY KELLY**...*RESIDENTIAL*
2832 **DORA WILSON**...*RESIDENTIAL*
2844 **ANGELES TRUCKING INC**...*TRUCKING-HEAVY HAULING*
2844 **KEVIN KONOPASKI**...*RESIDENTIAL*
2917 **MARTIN HAMMEL**...*RESIDENTIAL*
3130 **DRY CREEK GRANGE**...*FRATERNAL ORGANIZATIONS*
3130 **VIRGINIA HAMILTON**...*RESIDENTIAL*
3400 **RONALD PERKINS**...*RESIDENTIAL*
3402 **HALL N WRIGHT DISTRIBUTING CO**...*FOOD PRODUCTS-RETAIL*
3408 **DAVID WELLS**...*RESIDENTIAL*
3454 **BRIAN BOONE**...*RESIDENTIAL*
3616 **DELORES BAMER**...*RESIDENTIAL*

2020 S CRITCHFIELD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

3405 **JAMES CRITCHFIELD**...*RESIDENTIAL*
3511 **RAY STOSSEL**...*RESIDENTIAL*
3611 **DANIEL HJELMESETH**...*RESIDENTIAL*

2020 W EDGEWOOD DR

SOURCE: DIGITAL BUSINESS DIRECTORY

2354 **EDWIN BAIER**...*RESIDENTIAL*
2409 **DANIEL PRINGLE**...*RESIDENTIAL*
2417 **ANGELA REYNOLDS**...*RESIDENTIAL*
2418 **SHANNON ROBB**...*RESIDENTIAL*
2432 **AMANDA LOWE**...*RESIDENTIAL*
2434 **KERRY ALWARD**...*RESIDENTIAL*
2443 **TAMMI SHELTON**...*RESIDENTIAL*
2446 **BOE ANDRUS**...*RESIDENTIAL*
2446 **LISANDRA GLYNN**...*RESIDENTIAL*
2447 **DIGGIN IT LLC**...*EXCAVATING CONTRACTORS*
2447 **TRUDY ROBBINS**...*RESIDENTIAL*
2536 **CLAUD WILSON**...*RESIDENTIAL*
2808 **PHYLLIS RASLER**...*RESIDENTIAL*
2824 **AWESOME COSTUMES**...*COSTUMES-MASQUERADE & THEATRICAL*
2824 **BEV WILSON**...*RESIDENTIAL*
2830 **CINDY KELLY**...*RESIDENTIAL*
2832 **DORA WILSON**...*RESIDENTIAL*
2844 **ANGELES TRUCKING INC**...*TRUCKING-HEAVY HAULING*
2844 **KEVIN KONOPASKI**...*RESIDENTIAL*
2917 **MARTIN HAMMEL**...*RESIDENTIAL*
3130 **DRY CREEK GRANGE**...*FRATERNAL ORGANIZATIONS*
3130 **VIRGINIA HAMILTON**...*RESIDENTIAL*
3400 **RONALD PERKINS**...*RESIDENTIAL*
3402 **HALL N WRIGHT DISTRIBUTING CO**...*FOOD PRODUCTS-RETAIL*
3454 **BRIAN BOONE**...*RESIDENTIAL*
3616 **DELORES BAMER**...*RESIDENTIAL*

2016 S CRITCHFIELD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

3405 **JAMES CRITCHFIELD**...*RESIDENTIAL*
3405 **PRISCILLA CRITCHFIELD**...*RESIDENTIAL*
3511 **RAY STOSSEL**...*RESIDENTIAL*
3611 **DANIEL HJELMESETH**...*RESIDENTIAL*

2016 W EDGEWOOD DR

SOURCE: DIGITAL BUSINESS DIRECTORY

2322 **DAVID WOODS**...*RESIDENTIAL*
2354 **EDWIN BAIER**...*RESIDENTIAL*
2354 **JOCELYN BAIER**...*RESIDENTIAL*
2409 **DANIEL PRINGLE**...*RESIDENTIAL*
2409 **TARA PRINGLE**...*RESIDENTIAL*
2417 **ANGELA REYNOLDS**...*RESIDENTIAL*
2418 **SHANNON ROBB**...*RESIDENTIAL*
2443 **TAMMI SHELTON**...*RESIDENTIAL*
2446 **LISANDRA GLYNN**...*RESIDENTIAL*
2446 **SCOTT GLYNN**...*RESIDENTIAL*
2447 **TRUDY ROBBINS**...*RESIDENTIAL*
2536 **CLAUD WILSON**...*RESIDENTIAL*
2536 **JAKOB WILSON**...*RESIDENTIAL*
2808 **PHYLLIS RASLER**...*RESIDENTIAL*
2824 **AWESOME COSTUMES**...*COSTUMES-MASQUERADE & THEATRICAL*
2824 **BEV WILSON**...*RESIDENTIAL*
2830 **CINDY KELLY**...*RESIDENTIAL*
2832 **DORA WILSON**...*RESIDENTIAL*
2832 **VAUGHN WILSON**...*RESIDENTIAL*
2844 **ANGELES TRUCKING INC**...*TRUCKING-HEAVY HAULING*
2844 **KEVIN KONOPASKI**...*RESIDENTIAL*
2844 **KOLBY KONOPASKI**...*RESIDENTIAL*
2844 **KOURTNEY KONOPASKI**...*RESIDENTIAL*
2844 **KRISTINE KONOPASKI**...*RESIDENTIAL*
2917 **MARTIN HAMMEL**...*RESIDENTIAL*
3130 **DRY CREEK GRANGE**...*FRATERNAL ORGANIZATIONS*
3130 **VIRGINIA HAMILTON**...*RESIDENTIAL*
3130 **WILLIAM HAMILTON**...*RESIDENTIAL*
3310 **M N C ROOFING**...*ROOFING CONTRACTORS*
3454 **BRIAN BOONE**...*RESIDENTIAL*
3616 **DELORES BAMER**...*RESIDENTIAL*
3616 **DELORES KENT**...*RESIDENTIAL*
3616 **DICK KENT**...*RESIDENTIAL*

2012 S CRITCHFIELD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

3405 **JAMES CRITCHFIELD**...*RESIDENTIAL*
3511 **DEANNA STOSSEL**...*RESIDENTIAL*
3511 **STOSSEL RAY**...*RESIDENTIAL*
3705 **VISION BUILDERS**...*NEW SINGLE-FAMILY GENERAL CONTRS*
3705 **VISION BUILDERS INC**...*GENERAL BUILDLING CONTRACTORS*
3705 **VISION DEVELOPERS INC**...*COMMERCIAL BUILDING CONSTRUCTION*

2012 W EDGEWOOD DR

SOURCE: DIGITAL BUSINESS DIRECTORY

2354 **EDDIE BAIER**...*RESIDENTIAL*
2354 **EDWIN BAIER**...*RESIDENTIAL*
2354 **JOCELYN BAIER**...*RESIDENTIAL*
2409 **DANIEL PRINGLE**...*RESIDENTIAL*
2409 **TARA PRINGLE**...*RESIDENTIAL*
2414 **JODI KELLER**...*RESIDENTIAL*
2434 **GINA AMUNDSON**...*RESIDENTIAL*
2434 **REGINA AMUNDSON**...*RESIDENTIAL*
2434 **SHAWN AMUNDSON**...*RESIDENTIAL*
2446 **BOE ANDRUS**...*RESIDENTIAL*
2446 **LISA ANDRUS**...*RESIDENTIAL*
2448 **SHAWNA HISER**...*RESIDENTIAL*
2808 **PHYLLIS RASLER**...*RESIDENTIAL*
2824 **AWESOME COSTUMES**...*COSTUMES-MASQUERADE & THEATRICAL*
2824 **BEV WILSON**...*RESIDENTIAL*
2824 **BEVERLY WILSON**...*RESIDENTIAL*
2824 **WILSON BEVERLY**...*RESIDENTIAL*
2830 **CINDY KELLY**...*RESIDENTIAL*
2830 **TIMM KELLY**...*RESIDENTIAL*
2832 **CLINT WILSON**...*RESIDENTIAL*
2832 **VAUGHN WILSON**...*RESIDENTIAL*
2844 **ANGELES TRUCKING INC**...*TRUCKING-HEAVY HAULING*
2844 **ANGELES TRUCKING INC**...*OTHER SPECIALIZED TRUCKING, LONG-DISTANCE*
2844 **KRISTINE KONOPASKI**...*RESIDENTIAL*
3130 **DRY CREEK GRANGE**...*CIVIL & SOCIAL ORGANIZATIONS*
3130 **DRY CREEK GRANGE**...*FRATERNAL ORGANIZATIONS*
3130 **TTE HAMILTON**...*RESIDENTIAL*
3130 **VIRGINIA HAMILTON**...*RESIDENTIAL*
3130 **WILLIAM HAMILTON**...*RESIDENTIAL*
3402 **HALL N WRIGHT DISTRIBUTING CO**...*WHOLESALE TRADE AGENTS & BROKERS*
3408 **L MILLER**...*RESIDENTIAL*
3408 **LORI MILLER**...*RESIDENTIAL*
3408 **SPARKLE QUEEN CLEANING SVC**...*ALL OTHER SPECIALTY TRADE CONTRS*
3496 **ROCKY BEACHEM**...*RESIDENTIAL*
3616 **DELORES BAMER**...*RESIDENTIAL*
3616 **DICK KENT**...*RESIDENTIAL*
3641 **JERRY BRYANT**...*RESIDENTIAL*
3641 **LILAH BRYANT**...*RESIDENTIAL*

2008 S CRITCHFIELD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

3405 **JAMES E CRITCHFIELD**...*RESIDENTIAL*
3511 **LACEY LOOKS ETC**...*BEAUTY SHOP*
3705 **CRAIG T HECKMAN**...*RESIDENTIAL CONSTRUCTION*
3705 **VISION BUILDERS**...*GEN REMOD 1-FAM HOUSE*
3705 **VISION BUILDERS**...*GENERAL CONTRACTORS*
3705 **VISION BUILDERS INC**...*PUBLIC WORKS GENERAL CONTRACTOR COMMERCIAL GENERAL CONT*
3705 **VISION DEVELOPERS INC**...*COMM/OFF BLDG NEW CON*

2008 W EDGEWOOD DR

SOURCE: DIGITAL BUSINESS DIRECTORY

2309 **MARLIN & LINDA ANDERSON**...*RESIDENTIAL*
2322 **MORRIS WRIGHT**...*RESIDENTIAL*
2354 **PHILLIP R HUTTON**...*RESIDENTIAL*
2409 **DAN PRINGLE**...*RESIDENTIAL*
2409 **DANIEL G PRINGLE**...*AMUSEMENT/RECREATION SERVICES*
2414 **JODI KELLER**...*RESIDENTIAL*
2417 **J ROETTGER**...*RESIDENTIAL*
2418 **C PENCE**...*RESIDENTIAL*
2421 **SEWARD CLARK**...*RESIDENTIAL*
2445 **BEN & HONEY DAVIS**...*RESIDENTIAL*
2448 **SHAWNA ELLSWORTH**...*RESIDENTIAL*
2513 **JACK D MADISON**...*RESIDENTIAL*
2536 **JAMES D LECKIE**...*RESIDENTIAL*
2605 **JON & TRACY CRITCHFIELD**...*RESIDENTIAL*
2808 **J E RASLER**...*RESIDENTIAL*
2830 **CINDY & TIMM KELLY**...*RESIDENTIAL*
2832 **ALL NORTHWEST METAL ROOFING**...*MFR METAL SNAP LOCK ROOFING & SIDING*
2844 **ANGELES TRUCKING INC**...*TRUCKING-HEAVY HAULING*
2844 **ANGELES TRUCKING INC**...*TRUCKING*
2844 **KEVIN KONOPASKI**...*RESIDENTIAL*
2917 **ONE TIME WELDING**...*WELDING REPAIR*
2917 **PAT & ANNE A CASAD**...*RESIDENTIAL*
3130 **DRY CREEK GRANGE**...*FRATERNAL ORG*
3130 **DRY CREEK GRANGE**...*FRATERNAL ORGANIZATIONS*
3130 **WILLIAM & VIRGINIA L HAMILTON**...*RESIDENTIAL*
3310 **MARK SCHMITT**...*RESIDENTIAL*
3402 **HALL N WRIGHT DISTRIBUTING CO**...*GROCERIES NEC*
3404 **JEFF & KIM WILCOX**...*RESIDENTIAL*
3406 **STAN PEARSON**...*RESIDENTIAL*
3408 **T LESTER**...*RESIDENTIAL*
3454 **BYRON MOORE**...*RESIDENTIAL*
3454 **LIZZIE MY HAIRDRESSER**...*BEAUTY SHOP*
3616 **D L BAMER**...*RESIDENTIAL*
3641 **JERRY L BRYANT**...*RESIDENTIAL*

2003 S CRITCHFIELD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

1520 **US AIR FORCE CIVIL AIR PATROL**
3705 **VISION BUILDERS**

2003 W EDGEWOOD DR

SOURCE: DIGITAL BUSINESS DIRECTORY

2832 **ALL NORTHWEST METAL ROOFING**
3130 **DRY CREEK GRANGE**...*CIVIC ASSOCIATIONS*
3570 **CALVARY CHRISTIAN FELLOWSHIP**

2000 S CRITCHFIELD RD

SOURCE: DIGITAL BUSINESS DIRECTORY

1520 **US AIR FORCE CIVIL AIR PATROL**

2000 W EDGEWOOD DR

SOURCE: DIGITAL BUSINESS DIRECTORY

2832 **ALL NORTHWEST METAL ROOFING**
3130 **DRY CREEK GRANGE**...*CIVIC ASSOCIATIONS*

Ⓗ HOMEOWNER

S COYOTE RUN LA cont'd
HOUSEHOLDS 3

CRAB APPLE PL -FROM OLD MILL RD SOUTHEAST 2 BLKS SOUTH OF RHODES RD
· ZIP CODE 98362
+ OLD MILL RD INTERSECTS
3628 Yucha William R & Vera M [B] Ⓗ
Yucha Becca A 452-3702
3629 Peterson Deanna M [B] Ⓗ 452-3702
Peterson Kurt [2] 457-8068
Peterson Sarah [2] 457-8068
3633Ⓝ Hayter Allen L & Gwendolyn K 457-8068
3703 Blore Mitch S & Karen A [9]+ Ⓗ 456-0155
3704 Not Verified 457-8183
3710 Mc Guire Gladys C [B] Ⓗ 452-1484
3711Ⓝ Tate Gail A 452-3034
3718 Dryke Verne R & Cathy L [B] Ⓗ
Mc Guire Jason L 457-8976
Mc Guire Tracy Ellen 457-8976
Dryke Sean Robt 457-8976
3724 Not Verified
3732 Boyd John A & Lisa Harvey Boy D [9]+ Ⓗ 457-8976
3738 Edwards Robert W & Verna J [9]+ Ⓗ 452-5525
3744 Hinderer Wallace W & Gail L [9]+ Ⓗ 457-0951
+ RHODES RD INTERSECTS 457-1562
HOUSEHOLDS 12

CRAIG AV -FROM 3207 MC DOUGAL AV EAST
· ZIP CODE 98362
+ MC DOUGAL AV INTERSECTS
+ MT ANGELES RD INTERSECTS
1007 Not Verified
1009 Bozarth C Mark & Peggy A [7] Ⓗ 452-4838
1015Ⓝ Snodgrass Michelle M 452-0843
Thomas Lucy 452-0843
1040-1053 Not Verified (4 Hses)
1103 Albertson Roy [4] Ⓗ 457-3149
1104 Not Verified
1109 Greenway C [5] Ⓗ 452-8129
1110 Not Verified
1112Ⓝ Jensen Terry 452-7326
1113 Rottman Denise E [2] Ⓗ
1116 Hanowell Ernest P & Elizabeth R [9]+ Ⓗ 452-5401
1119 Smith Harvey L & Marti [5] Ⓗ 457-4234
1129-1140 Not Verified (3 Hses)
1142 HOME TEAM THE cln-mtce co
Ⓝ Boyd Dean R & Janice E.. 457-0430
1145-1146 Not Verified (2 Hses)
1150 Johnson Larry R & Cheryl [5] 452-3153
1155 Stoner Richard J & Paula [5] Ⓗ 457-1021
+ PORTER ST INTERSECTS
1203 Ward Edwin E [9]+ Ⓗ 452-2051
Holm Todd M [5] 452-2051
1212 Apartments
1-6 Not Verified (6 Apts)
7 Martin Frederic T & Cathryn A [2] 457-1267
8 Stull Rose R [2] 457-0063
1213 DEE VILLE APARTMENTS
A-D Not Verified (4 Apts)
1226 HAMLET APARTMENTS THE
+ LIMITED ACCESS
1 Dorn Fred [4] 452-7678
5 Mc Fadden Lisa [2] 452-2866
6 Reifenstahl Peggy [2] 457-7046
8 Sampson Dorothy M [2]
19 Holman Daniel J [2] 457-6840
25Ⓝ Mc Kee Chris & Jennifer 452-4273
BUSINESSES 3 HOUSEHOLDS 42

CRITCHFIELD RD S -FROM W EDGEWOOD DR 17
· ZIP CODE 98362
3405Ⓝ Critchfield James E 452-3051

Ⓝ NEW NEIGHBOR

S CRITCHFIELD RD cont'd
3511-3705 Not Verified (2 Hses)
HOUSEHOLDS 3

CROFT ST -FROM 500 BLK OF N GALES ST
· ZIP CODE 98362
+ N GALES ST INTERSECTS
+ DEAD END

CROW'S NEST LA -
· ZIP CODE 98382
+ STARBOARD WAY INTERSECTS
410-440 Vacant (6 Hses)
441Ⓝ Roders Ken & Nonie Ⓗ
450-452 Vacant (2 Hses)
+ PORTSIDE WAY INTERSECTS
HOUSEHOLDS 1

D ST SOUTH -FROM 1100 W 4TH ST SOUTH 5
· ZIP CODE 98362
+ W 4TH ST INTERSECTS
411Ⓝ Solf Fred 457-6224
+ 5TH ST INTERSECTS
504 Wehrli Harold A [9]+ Ⓗ 457-8347
+ 6TH ST INTERSECTS
608Ⓝ Baker Jack & Patti 457-3164
610Ⓝ Cashman Ernest & Cindy ... 452-1541
616 Not Verified
+ 7TH ST INTERSECTS
709 Marshall Helen F [2] Ⓗ 452-1100
+ 8TH ST INTERSECTS
805 Long Samuel K & Michelle L [4] Ⓗ 457-5197
7
+ 9TH ST INTERSECTS
906 Johnson Harry D & Jeanne S [9]+ Ⓗ 457-5220
914 Winters George R & Helen E [9]+ Ⓗ 457-6969
+ 10TH ST INTERSECTS
1011 Griffith Ernest W Jr & Debra J [9]+ Ⓗ 457-3178
1020 Stone Timothy C & Linda K [9]+ Ⓗ 452-1554
+ 11TH ST INTERSECTS
1102Ⓝ Kelly Doris B
1116 Not Verified
1122 Zink Dale A & Diane [B] Ⓗ .. 457-6328
+ W 12TH ST INTERSECTS
+ W 13TH ST INTERSECTS
+ W 14TH ST INTERSECTS
1406 Leonard Ken & Deboran H [2] Ⓗ 452-8635
1407 Not Verified
1417Ⓝ Lidster Ronald T & Lorraine P 457-7757
+ W 15TH ST INTERSECTS
1506 Maulin Lorene I [9]+ Ⓗ 457-4990
1515 Stokes Carleen S [2] 457-8689
1520 Hale Robert L & Betty C [9]+ Ⓗ 457-1641
+ W 16TH ST INTERSECTS
1606 Dansereau Julie M [2] Ⓗ 457-8768
1617 Delaney David M [9]+ Ⓗ 452-6980
1620 Hill Van E & Rosemarie [9]+ Ⓗ 457-5205
+ W 17TH ST INTERSECTS
1716 Dailey H [5] 457-4608
1720 Not Verified
HOUSEHOLDS 25

DAVIS ST -FROM DOYLE RD
· ZIP CODE 98362
33 Gebhardt Gordon L & Melvia [2] Ⓗ 457-1280
42 Not Verified
104 Gebhardt Felix & Dolly A [2] Ⓗ 452-9123
108 Thornburg Craig B & Lisa [2] Ⓗ 457-0129
HOUSEHOLDS 4

DE FRANG ST E -FROM N LARCH AV 6C
· ZIP CODE 98362
2909 Not Verified

Ⓝ NEW NEIGHBOR

47

EDDY LA cont'd
BUSINESSES 1

EDGECLIFF ST -FROM MILWAUKEE DR EAST 1 NORTH OF W 10TH ST
· ZIP CODE 98362
+ MILWAUKEE DR INTERSECTS

EDGEWOOD DR W -FROM AIRPORT RD WEST 1 SOUTH OF W LAURIDSEN BLVD 17
· ZIP CODE 98362
+ AIRPORT RD INTERSECTS
1428 Vacant
1430 Sipe Bill & Tane [2] 452-2029
ALDERSON AUTO BODY & PAINT 452-5990
+ OLD TIME PL INTERSECTS
1910 Duval Shirley A Ⓗ 457-8273
2026 CLASSY AUTO REPAIR SERVICE 457-9326
Lindstrom William A & Veronica [2] 452-3880
2034 Not Verified
2048 AIRPORT AUTO ENGINE SHOP auto repair 457-4543
Ⓝ Coste Loran H & Shirley A 457-4543
2054 Graham Albert & Marlene..... 452-0966
2058 Not Verified
2126 Dougherty Ted H & Rose M Ⓗ 452-2519
2200 AIRPORT GARDEN & PET CENTER 457-8462
2207 Kalbfleisch John L [2] Ⓗ 457-3854
2221 Not Verified
2228 Calvert Roger & Janis Ⓗ 457-9079
2255-2347 Not Verified (5 Hses)
2354 Dougherty Charles [2] Ⓗ 457-7032
+ CAYANUS RD INTERSECTS
2409 Amundson Carl E & Ramona J [2] Ⓗ 452-9401
2417 Amundson M L 452-8028
2513 Madison Jack D & Joyce [2] Ⓗ 452-2442
2536 Leckie James D & Naoma [2] Ⓗ 452-1742
Leckie Michael 452-1742
+ REDDICK RD INTERSECTS
2605 Critchfield D A & Grace [2] Ⓗ 457-6088
+ CRITCHFIELD RD INTERSECTS
+ HEDIN RD INTERSECTS
2808 JIM'S TROPHIES 457-5810
Rasler J E & Phyllis [2] 457-5810
2830 Kelly Timm & Cindy Ⓗ 452-9413
2832 Not Verified
2833 Casad Pat A & Jeanette Ⓗ . 452-8532
2844 Konopashi Kevin & Kristine Ⓗ 452-8647
+ DRY CREEK RD INTERSECTS
3130 Hamilton William L & Virginia L [2] Ⓗ 452-7188
+ GAGNON RD INTERSECTS
+ LOWER ELWHA RD INTERSECTS
3310 Schmitt Mark R & Becky J [2] Ⓗ 452-8166
3404 Wilcox Jack & Kim [2] 457-0846
3406 Not Verified
3454 Bellamy Ronald & Cyndi [2] Ⓗ 457-5761
3520 Not Verified
3570 DRY CREEK SCHOOL 457-5050
3601 Lundin Eric 452-5699
3616 Barner D Laird Ⓗ 452-2420
3641 Bryant Jerry L & Lilah [2] Ⓗ 452-2524
3671 DRY CREEK WATER ASSN INC 452-2780
3684-3790 Not Verified (2 Hses)
+ RIFE RD INTERSECTS
+ LAIRD RD INTERSECTS
3911 Marteney Kenneth & Pearl [2] Ⓗ 457-5145
3991 Not Verified
4078 Sundby Harry & Janet Ⓗ 417-0611
BUSINESSES 7 HOUSEHOLDS 40

EDGEWOOD LA -FROM EDGEWOOD DR
· ZIP CODE 98362
+ EDGEWOOD DR INTERSECTS
540Ⓝ Curtis Kevin & Kimberly

EDGEWOOD LA cont'd
433 Tobin Eric & Linda [2] 457-0697
435 Lydiard Harry L & Evelyn [2] .. 452-2533
691 Brittenham George W & Margaret R [2] Ⓗ 457-7355
742 Cloud Jim & Dona [2] Ⓗ 452-6969
774 Kriesel Jack M & Esther [2] Ⓗ 452-1685
845 Coates Robert & Phylis [2] Ⓗ 457-0740
HOUSEHOLDS 7

EDGEWOOD PL -FROM S PINE ST WEST 1 SOUTH OF W LAURIDSEN BLVD
· ZIP CODE 98362
507 Davidson Keith G & Rose M [9]+ Ⓗ 457-8445
HOUSEHOLDS 1

EDIZ HOOK -CONTINUATION OF MARINE DR EXTENDING NORTH AND EAST FORMING NORTH LINE OF HARBOR
· ZIP CODE 98362
LIONS CLUB MEMORIAL PARK
U S C G AIR STA 457-2206
U S C G AIR STA (EXCH STORE) 457-2285
U S C G (EMERGENCY CNTR) 457-4404
U S N (ELEC SYS EVALUATION FACILITY) 457-5658
U S C G (WEATHER INFO) .. 457-6533
LOG DUMP
PORT ANGELES PILOTS 457-7944
SALMON CLUB seasonal facilities
BUSINESSES 9

EDWARDS RD W -FROM AIRPORT RD 17
· ZIP CODE 98362
+ AIRPORT RD INTERSECTS
1805 Edwards Donald A & Joyce M [2] Ⓗ 457-3869
Mc Farlen Rick W & Sherri L [2] Ⓗ 457-8143
1809 Not Verified
HOUSEHOLDS 3

ELDERBERRY LA -FROM WOLFE ST EAST
· ZIP CODE 98362
+ WOLFE ST INTERSECTS
114 Lingvall Keith P & Molly [2] Ⓗ 457-0158
113 Lackman Ernest M & Shirley M [9]+ Ⓗ 457-3659
Gillis Marjorie C [2] 457-3659
121 Gordon Trevor [2] Ⓗ 457-5275
202 La Fountain Richard I & Renee E [2] Ⓗ 452-9903
La Fountain Gregory R 452-9903
+ WOLFE ST INTERSECTS
207 Burnes Williard L [2] Ⓗ 457-7703
215 Not Verified
223 James Gary F & Gail F [2] Ⓗ 452-3422
231Ⓝ Bradbury Larry V Ⓗ 457-6523
HOUSEHOLDS 8

ELIZABETH PL -FROM 1803 E LAURIDSEN BLVD SOUTH
· ZIP CODE 98362
+ E LAURIDSEN BLVD INTERSECTS
704 Dailey Marvin R & I Kathleen [B] Ⓗ 457-7714
710 Lawson Roberta [4] 417-3983
711 Mc Frederick Virgina B [9]+ Ⓗ 452-8232
718 Powell Gerald & Irene [9]+ Ⓗ 452-9452
721 Allen Katherine R [9]+ Ⓗ 452-8057
722 Mc Inerney Kenneth M & Daisy J [9]+ Ⓗ 457-5244

STREET NOT LISTED

15-B
ECKARD PL –FROM MC DOUGALL AV WEST 2 BLKS SOUTH OF CRAIG AV

ZIP CODE 98362
901-1 Flatau Beatrice J @ 457-3204
903-2 No Return
904★Mandeville T E @ 457-3622
907 Colley Glenn A @ 452-6425
908 Conrey Yvonne C @ 452-6616
913 Marrs Gale R @ 457-8308
916 Reynolds Jeffrey S @ 457-4532
917★Crumb Greg @ 457-8077
922 Johnson Dean A @ 452-2154
923 Calkins John D @ 457-1982
929 Harris Doyal E @ 452-8519

15-B
ECKARD ST –FROM 3303 MC DOUGAL AV EAST

ZIP CODE 98362
NUMBERED IRREGULAR
1011 Zinn David @ 452-8770
1012 No Return
CAMPBELL AV INTERSECTS
1043★Wickham Douglas

15-B
ECKARD AV –FROM WABASH ST EAST 1 SOUTH OF CAMPBELL

1452 Coulter Robt S @ 452-5106
1423 Vacant
1411 Gabriel Floyd R @ 457-8368
1419 Lorentzen Bryce E @ 457-0287
1431 Kish Jack M @ 457-3040

6
EDDY LA –FROM HWY 101E MONROE RD 1 NORTH

ZIP CODE 98362
2509 Quality Four X Four & Truck Supply 452-9371

10
EDGECLIFF ST –FROM MILWAUKEE DR EAST 1 NORTH OF W 10TH ST

ZIP CODE 98362

17
EDGEWOOD DR –FROM AIRPORT RD WEST 1 SOUTH OF W LAURIDSEN BLVD

ZIP CODE 98362
1428 Wyatt Scott D @ 457-3102
1430★Sparkman Kenneth 452-4413
1432 Biber Elsie E Mrs @ 457-7860
1436 Vacant
1440★Remer-Mc Nabb Steve R 452-3402
1447 Corey & Sons Loggine (Log Yard) 457-7911
I T T Rayonier Inc (Sorting Yard) 457-0224
1448 Classy Auto Repair Service 457-9326
1449 Vacant
1450 Airport Beauty Salon
★Dougherty Anthony 452-1478
1451 Edgewood Truck & Equipment Sales Inc 457-5100
1452 Dougherty Ted H @ 452-2519
1454 Airport Garden & Pet Center 457-8462
1455 Martin Martha @
1456 Kalbfleisch John L @ 457-3854
1457 Vacant
1458 Charles Thos G @ 452-2488
1459 Ketcher Ronald K @ 457-1579
1460 Baker Daryle A @ 452-3938
1464 Sanshin American Wood Co Inc lumber mill 457-9431
1476 Vacant
1480 No Return
1484 Dougherty Bertha Mrs @ 457-7032
1488★Boe Quint L @ 452-9972
1500 Amundson Carl E @ 452-9401
1500a Vacant
1501 Madison Jack D @ 452-2442
1502 Leckie James D @ 452-1742
1504 Critchfield D A @ 457-6088
1506 Hedin Basil T 457-7762
1514 Hedin Brian B @ 452-9617
1518 Vacant
1522 Jim's Trophies 457-5810
Rasler J E
1524★Wilson Vaughn @ 457-5721
1528 Konopaski Kevin @ 452-8647
1530 Kelly Timm 452-9413
1532 Casad Pat A @ 452-8532
1780 Blore Wesley @ 452-9032
1782 Lahr David @ 452-5064
1784 Wilcox Jeff @ 457-0848
1800★Bellamy Ronald @ 457-5761
1804 Vacant
1812 Dry Creek School 457-5050
1816★Bryant Toni L Mrs @ 452-6241
1820 Bamer D Laird @ 452-2420
1824 Bryant Jerry L @ 452-2524
1826 Dry Creek Water Assn Inc 452-2780
1828 No Return
1836 Coffey M E @ 452-2780
1847 Castleberry David @ 457-1475
1848 Lydiard Harry L @ 452-2533
1849 Cloud Jim @ 452-6969
1850 Possinger Wilmer Jr @ 452-4233
1850a★Curtis Kevin @ 457-3788
1851 Marteny Kenneth @ 457-5145
1852★Coats Robert @ 457-0740
1853 Roderick Mike @ 457-7340
1854★Cooke Arlo
1855 Kriesel Jack M @ 452-1685
1857 Brittenham Geo W @ 457-7355
1906 Paulin Wayne
1920 Duval Conrad @ 457-8273

17
EDGEWOOD PL –FROM S PINE ST WEST 1 SOUTH OF W LAURIDSEN BLVD

ZIP CODE 98362
507 Davidson Keith G @ 457-8445

9
EDIZ HOOK –CONTINUATION OF MARINE DR EXTENDING NORTH AND EAST FORMING NORTH LINE OF HARBOR

ZIP CODE 98362
Lions Club Memorial Park
U S C G Air Sta 457-4401
U S C G Air Sta (Exch Store) 457-8600
U S C G (Emergency Cntr) 457-4404
U S N (Elec Sys Evaluation Facility) 457-5658
U S C G (Weather Info) 457-6533
K-Ply Log Dump
Port Angeles Pilots 457-7944
Thunderbird Boat House charter serv 457-3595

15
ELDERBERRY LA –FROM OLD MILL RD EAST

ZIP CODE 98362
306 Lingvall Keith P @ 457-0158
307 Lackman Ernest M @ 457-3659
317★Gordon Trevor @ 457-5275
326 La Fountain Richd @ 452-9903
MAPLE ST INTERSECTS
329 Burnes W L @ 457-7703
337 Ronish Walter V @
345 Knott Gordon @ 452-5985
403 Gossage Polly H Mrs @ 457-6523

8
ELIZABETH PL –FROM 1803 E LAURIDSEN BLVD SOUTH

ZIP CODE 98362
704 Dailey Marvin R @ 457-7714
710★Lawson Laberta
711 Mc Frederick Cyril F @ 452-8232
718 Powell Gerald @ 452-9452
721 Allen Robt E @ 452-8057
722 Mc Inerney Kenneth M @ 457-5244
723 Brooks Norman E @ 452-7252
724 Chittum Harold J @ 452-8509

6-A
ENNIS ST N –FROM 1400 E 1ST ST NORTH

ZIP CODE 98362
111 Peninsula Truck Lines Inc 457-3411
E FRONT ST INTERSECTS
E GEORGIANA ST INTERSECTS
310 Long Alta E Mrs @ 457-5966
312 Last Floyd S @ 457-5880
CAROLINE ST INTERSECTS
401★Bowman M @
402★Sage Patsy 457-6803
404 Vacant
405★Field Michl 457-9380
406★Wolett Ashley 452-0297
COLUMBIA ST INTERSECTS
700 I T T Rayonier Inc pulp & pulp prods 457-3391
Rayonier Beanery restr 457-9217

8
ENNIS ST S –FROM 1400 E 1ST ST SOUTH

ZIP CODE 98362
2D ST INTERSECTS
3D ST INTERSECTS
303★Pomerantz Jeff @
304 Vogel Paul G 457-1077
309 Gordon W Z @ 451-9452

1988 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1988 W EDGEWOOD DR

SOURCE: POLKS

RANGE NOT LISTED

1984 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1984 W EDGEWOOD DR

SOURCE: POLKS

RANGE NOT LISTED

1980 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1980 W EDGEWOOD DR

SOURCE: POLKS

STREET NOT LISTED

1975 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1975 W EDGEWOOD DR

SOURCE: POLKS

STREET NOT LISTED

1970 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1970 W EDGEWOOD DR

SOURCE: POLKS

STREET NOT LISTED

1965 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1965 W EDGEWOOD DR

SOURCE: POLKS

STREET NOT LISTED

1962 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1962 W EDGEWOOD DR

SOURCE: POLKS

STREET NOT LISTED

1959 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1959 W EDGEWOOD DR

SOURCE: POLKS

STREET NOT LISTED

1956 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1956 W EDGEWOOD DR

SOURCE: POLKS

STREET NOT LISTED

1952 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1952 W EDGEWOOD DR

SOURCE: POLKS

STREET NOT LISTED

1948 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1948 W EDGEWOOD DR

SOURCE: POLKS

STREET NOT LISTED

1941 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1941 W EDGEWOOD DR

SOURCE: POLKS

STREET NOT LISTED

1936 S CRITCHFIELD RD

SOURCE: POLKS

STREET NOT LISTED

1936 W EDGEWOOD DR

SOURCE: POLKS

STREET NOT LISTED

FIRE INSURANCE MAPS

Project Property:
W. Edgewood Dr and S. Critchfield Rd Sequim WA

Project No: PNR0651RW1/1111A PO#TBD

Requested By: Geosyntec Consultants

Order No: 24121300691

Date Completed: December 13, 2024

Please note that no information was found for your site or adjacent properties.

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

PSR
PHYSICAL SETTING REPORT

Property Information

Order Number:		24121300691p
Date Completed:		December 13, 2024
Project Number:		PNR0651RW1/1111A PO#TBD
Project Property:		W. Edgewood Dr and S. Critchfield Rd Sequim WA
Coordinates:		
	Latitude:	48.11386869
	Longitude:	-123.5135601
	UTM Northing:	5329083.91972 Meters
	UTM Easting:	461775.158883 Meters
	UTM Zone:	UTM Zone 10U
	Elevation:	308.34 ft
	Slope Direction:	NNE

Topographic Information....2
Hydrologic Information....4
Geologic Information....7
Soil Information....9
Wells and Additional Sources....14
  Summary....15
  Detail Report....19
Radon Information....124
Appendix....125
Liability Notice....127

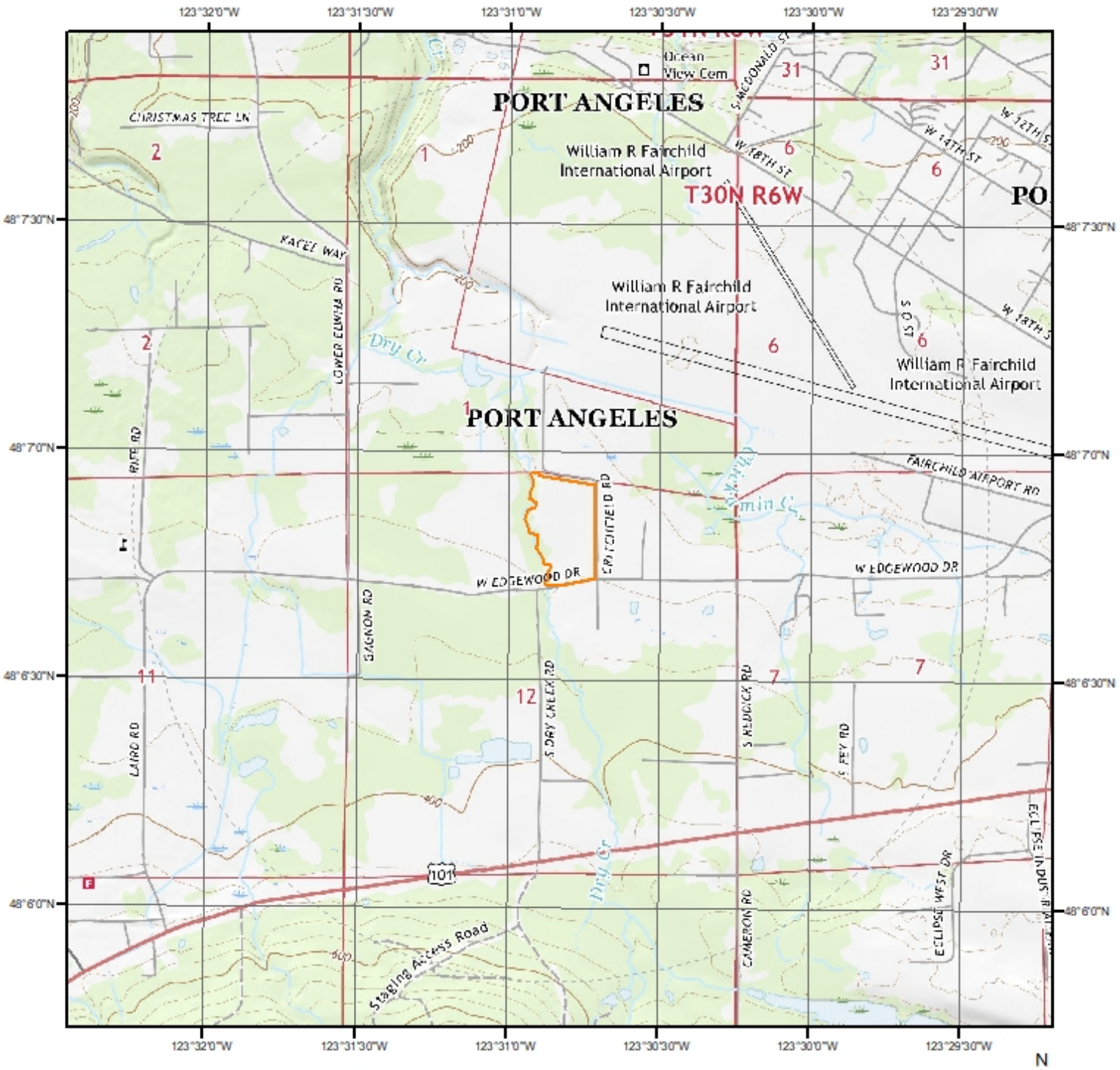
The ERIS ***Physical Setting Report - PSR*** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



Current USGS Topo (2020)

Quadrangle(s): Ediz Hook,WA; Angeles Point,WA; Elwha,WA; Port Angeles,WA

PLUME, NAME, TOXICS

- Boeing Auburn, Western, TCE concentrations greater than 5ug/L
- Boeing Auburn, Area 1, TCE concentrations greater than 5ug/L
- Boeing Auburn, Boeing Auburn, TCE concentrations greater than 0.5ug/L
- Everett Smelter, Lowlands,
- Everett Smelter, Uplands,
- Everett Smelter, Everett Smelter Cleanup Site,
- Tacoma Smelter, , Over 100 ppm
- Tacoma Smelter, , Military Base/State Facility
- Tacoma Smelter, , Limited Data
- Tacoma Smelter, , 40.1 ppm to 100 ppm
- Tacoma Smelter, , 20 ppm to 40 ppm
- Tacoma Smelter, , Under 20 ppm

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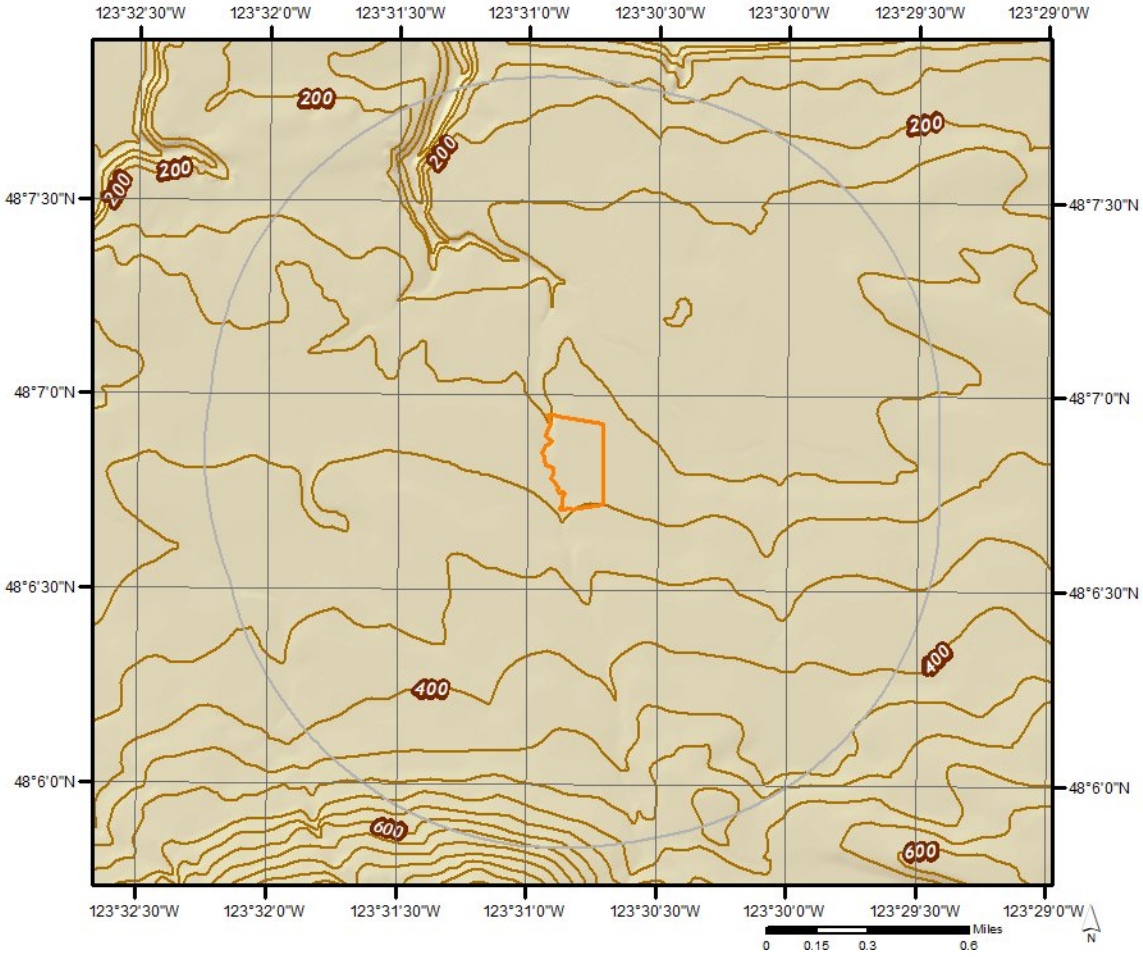
Source: USGS 7.5 Minute Topographic Map

Topographic Information

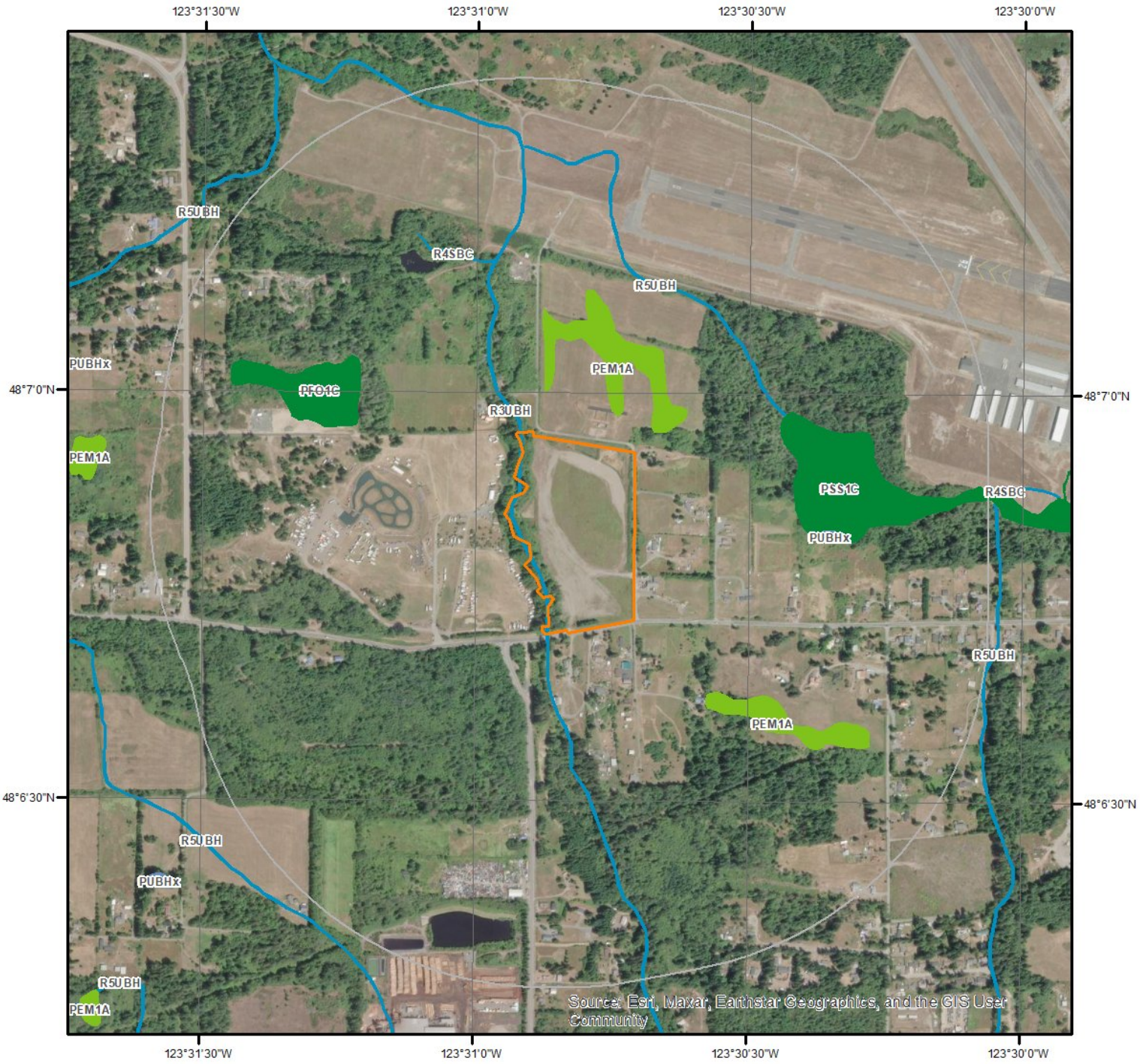
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

Elevation:	308.34 ft
Slope Direction:	NNE



Hydrologic Information



Wetland

0 0.075 0.15 0.3 Miles

N

This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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Hydrologic Information

Flood Hazard Zones

This map shows FEMA flood hazard zones based on FEMA's National Flood Hazard Layer. FIRM Panels are overlayed. An absent FIRM panel represents no data available.

Miles
0 0.1 0.2

N

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee
- Area with Risk Due to Levee
- Open Water

Quadrangle(s): Ediz Hook,WA; Angeles Point,WA; Elwha,WA; Port Angeles,WA

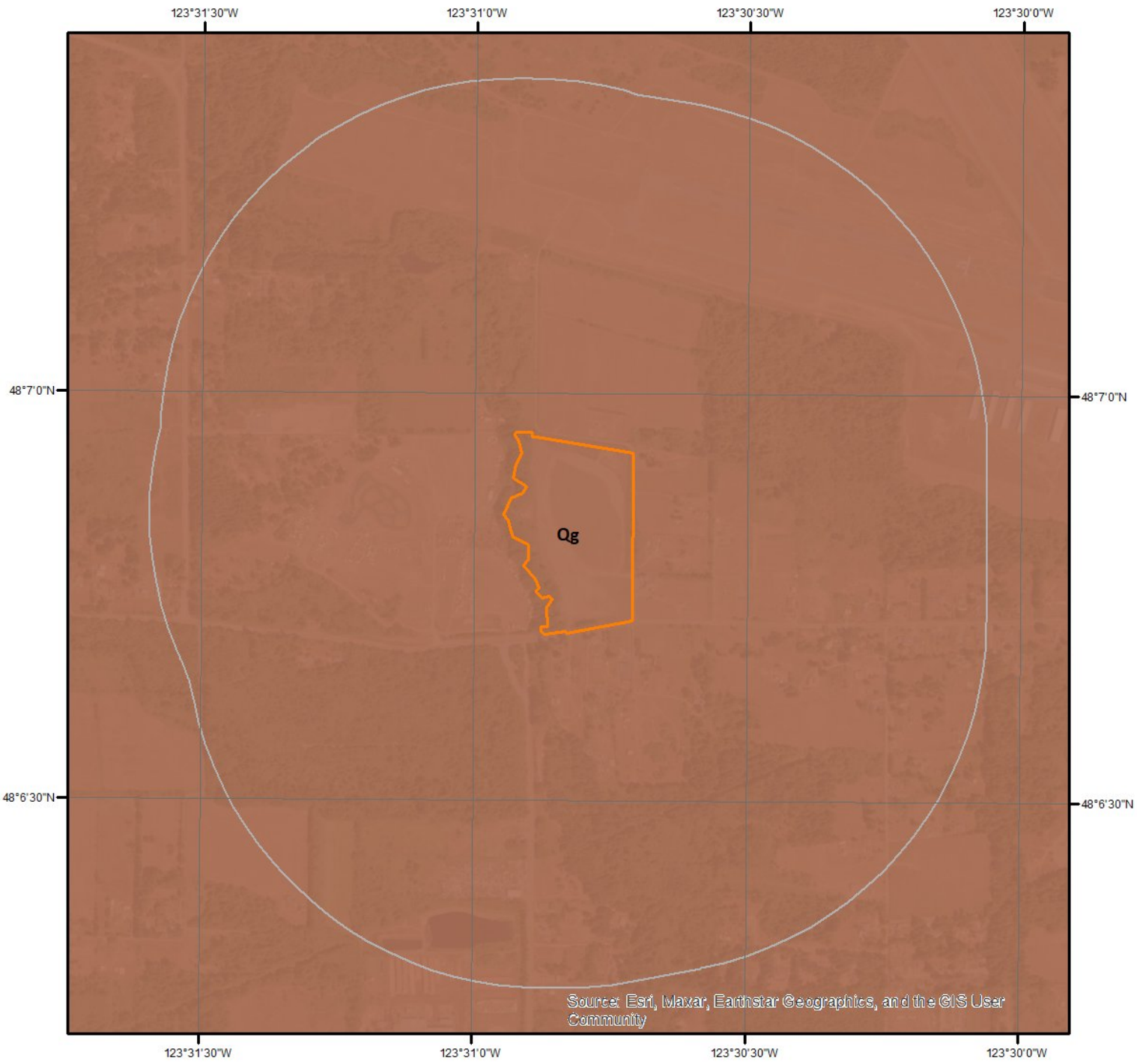
ERIS

Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.
For detailed Zone descriptions please click the link: https://floodadvocate.com/fema-zone-definitions

No records found for the project property or surrounding properties.

Geologic Information



Geologic Units

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.

N

0 0.175 0.35 Miles

ERIS

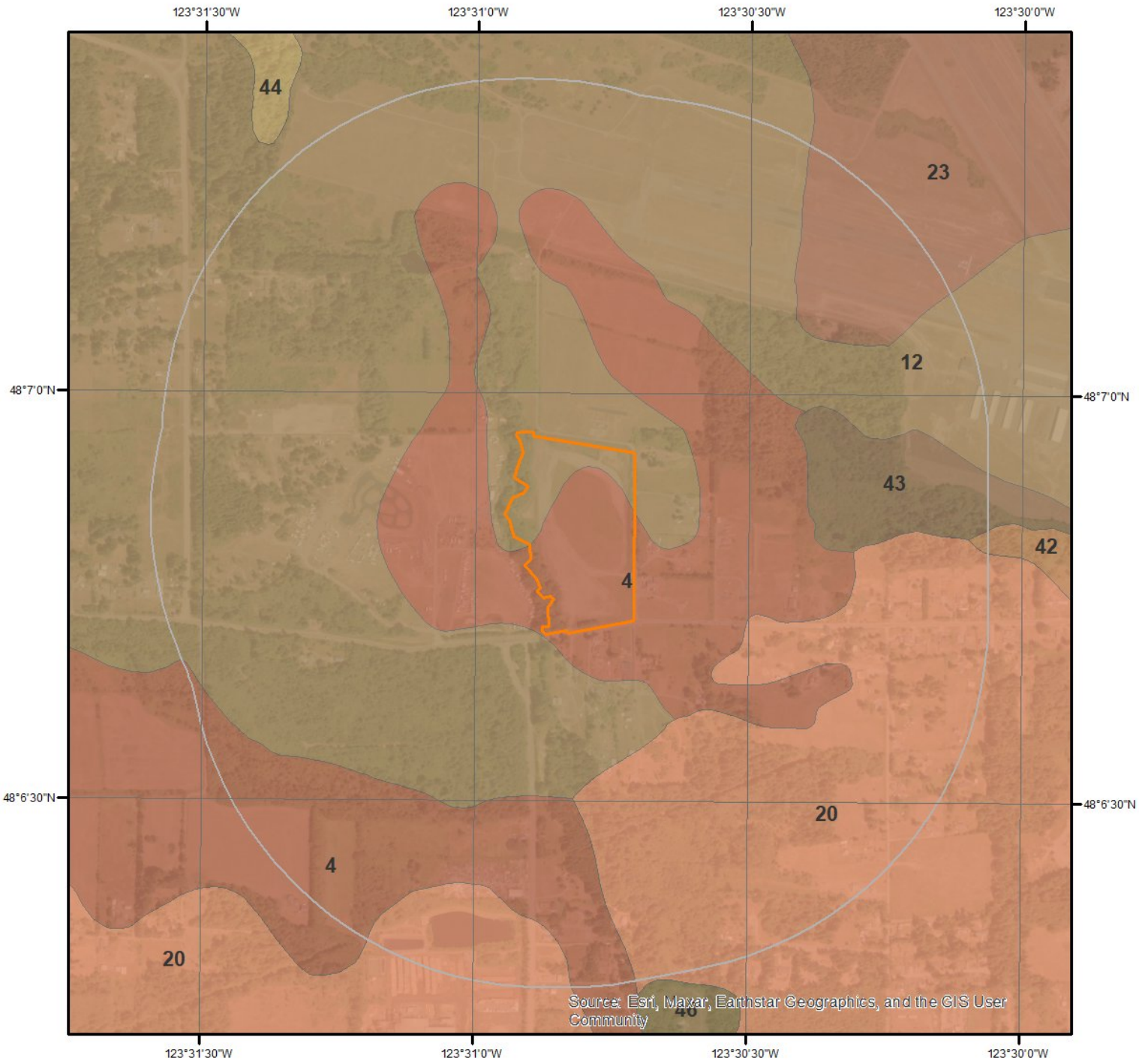
Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

Geologic Unit Qg

Unit Name:	Glacial drift, undivided
Unit Age:	Pleistocene
Primary Rock Type:	Sand
Secondary Rock Type:	Gravel
Unit Description:	Glacial and glaciofluvial sand, gravel, and till; includes alpine glacier outwash and till as well as some Recent alluvium.

Soil Information



SSURGO Soils

N

0 0.175 0.35 Miles

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

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Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit 12 (49.38%)

Map Unit Name:	Clallam gravelly sandy loam, 0 to 15 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	69cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Clallam(85%)

horizon H1(0cm to 25cm)	Gravelly ashy sandy loam
horizon H2(25cm to 71cm)	Very gravelly ashy sandy loam
horizon H3(71cm to 152cm)	Very gravelly sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 12 - Clallam gravelly sandy loam, 0 to 15 percent slopes

Component: Clallam (85%)
The Clallam component makes up 85 percent of the map unit. Slopes are 0 to 15 percent. This component is on hillslopes, hills. The parent material consists of till. Depth to a root restrictive layer, densic material, is 20 to 40 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March, April. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 4s. Irrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: McKenna (3%)
Generated brief soil descriptions are created for major soil components. The McKenna soil is a minor component.

Map Unit 20 (36.19%)

Map Unit Name:	Elwha gravelly sandy loam, 0 to 15 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	69cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Elwha(85%)

horizon H1(0cm to 10cm)	Gravelly sandy loam
horizon H2(10cm to 84cm)	Gravelly sandy loam
horizon H3(84cm to 152cm)	Gravelly sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 20 - Elwha gravelly sandy loam, 0 to 15 percent slopes

Component: Elwha (85%)
The Elwha component makes up 85 percent of the map unit. Slopes are 0 to 15 percent. This component is on hillslopes, hills. The

parent material consists of till. Depth to a root restrictive layer, densic material, is 20 to 40 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March, April. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 4s. This soil does not meet hydric criteria.

Component: McKenna (3%)
Generated brief soil descriptions are created for major soil components. The McKenna soil is a minor component.

Component: Bellingham (3%)
Generated brief soil descriptions are created for major soil components. The Bellingham soil is a minor component.

Map Unit 23 (4.54%)

Map Unit Name:	Hoypus gravelly sandy loam, 0 to 15 percent slopes
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	
Drainage Class - Dominant:	Somewhat excessively drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Hoypus(100%)

horizon H1(0cm to 8cm)	Gravelly sandy loam
horizon H2(8cm to 25cm)	Gravelly sandy loam
horizon H3(25cm to 79cm)	Very gravelly loamy sand
horizon H4(79cm to 114cm)	Very gravelly sand
horizon H5(114cm to 152cm)	Gravelly sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 23 - Hoypus gravelly sandy loam, 0 to 15 percent slopes

Component: Hoypus (100%)
The Hoypus component makes up 100 percent of the map unit. Slopes are 0 to 15 percent. This component is on outwash terraces, outwash plains. The parent material consists of glacial outwash. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4s. This soil does not meet hydric criteria.

Map Unit 4 (9.2%)

Map Unit Name:	Bellingham silty clay loam
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	15cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	C/D - These soils have moderately high runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Bellingham(85%)

horizon H1(0cm to 23cm)	Silty clay loam
horizon H2(23cm to 152cm)	Silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Soil Information

Map Unit: 4 - Bellingham silty clay loam

Component: Bellingham (85%)
The Bellingham component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on depressions on terraces, outwash plains. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 5 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 6 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria.

Component: McKenna (6%)
Generated brief soil descriptions are created for major soil components. The McKenna soil is a minor component.

Component: Puget (6%)
Generated brief soil descriptions are created for major soil components. The Puget soil is a minor component.

Map Unit 42 (0.2%)

Map Unit Name:	McKenna gravelly silt loam
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

McKenna(90%)

horizon H1(0cm to 20cm)	Gravelly ashy silt loam
horizon H2(20cm to 46cm)	Gravelly loam
horizon H3(46cm to 61cm)	Very gravelly loam
horizon H4(61cm to 81cm)	Very gravelly sandy loam
horizon H5(81cm to 152cm)	Very gravelly sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 42 - McKenna gravelly silt loam

Component: McKenna (85%)
The McKenna component makes up 85 percent of the map unit. Slopes are 0 to 5 percent. This component is on depressions, drainageways, hills. The parent material consists of glacial drift. Depth to a root restrictive layer, densic material, is 20 to 40 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 9 percent. Nonirrigated land capability classification is 6w. This soil meets hydric criteria.

Component: Bellingham (3%)
Generated brief soil descriptions are created for major soil components. The Bellingham soil is a minor component.

Map Unit 43 (0.5%)

Map Unit Name:	Mukilteo muck
Bedrock Depth - Min:	
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Very poorly drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Soil Information

Mukilteo(90%)

horizon H1(0cm to 25cm)	Muck
horizon H2(25cm to 152cm)	Mucky peat

Component Description:

Minor map unit components are excluded from this report.

Map Unit: 43 - Mukilteo muck

Component: Mukilteo (85%)
The Mukilteo component makes up 85 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions, valleys. The parent material consists of mixed organic material. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 4 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 30 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria.

Component: Bellingham (8%)
Generated brief soil descriptions are created for major soil components. The Bellingham soil is a minor component.

Wells and Additional Sources

Wells & Additional Sources

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data

Map Key	PWS ID	Distance (ft)	Direction
35	WA5320050	4609.42	W

Safe Drinking Water Information System (SDWIS)

Map Key	PWS ID	Distance (ft)	Direction
35	WA5320050	4609.42	W

USGS National Water Information System

Map Key	Site No	Distance (ft)	Direction
1	USGS-480700123304501	290.36	N
2	USGS-480640123304002	300.85	SSW
3	USGS-480654123305601	679.20	WSW
4	USGS-480640123304001	448.55	SSE
5	USGS-12046600	503.63	S
7	USGS-480641123301501	1585.20	ESE
8	USGS-480627123305501	1624.66	S
12	USGS-480708123311501	2598.23	WNW
13	USGS-480615123304601	2666.17	S
15	USGS-480657123295702	3116.97	E
16	USGS-480630123301401	2958.51	SE
17	USGS-480657123295701	3388.31	E
22	USGS-480622123313001	3571.33	SW
22	USGS-480622123313002	3571.33	SW
25	USGS-480615123304602	3810.35	S
28	USGS-480653123293801	4202.45	E
29	USGS-480649123315402	4117.65	W
33	USGS-480624123294401	4181.27	SE
34	USGS-480620123300001	4117.23	SSE
42	USGS-480649123315401	4976.52	W
47	USGS-480726123301701	5032.00	NW
48	USGS-480608123314401	5213.97	SW

State Sources

Oil and Gas Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

Public Water System Source Information

Map Key	PWS ID	Distance (ft)	Direction
38	04467	4525.41	NW
38	05193	4525.41	NW

Wells and Additional Sources Summary

Underground Injection Control Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

Washington State Well Log Database

Map Key	Well Log ID	Distance (ft)	Direction
6	58143	1199.35	S
9	677389	1991.23	ENE
9	677399	1991.23	ENE
9	677395	1991.23	ENE
9	677393	1991.23	ENE
9	1117944	1991.23	ENE
9	677385	1991.23	ENE
9	677391	1991.23	ENE
9	677401	1991.23	ENE
9	677405	1991.23	ENE
9	677387	1991.23	ENE
9	677381	1991.23	ENE
9	677383	1991.23	ENE
9	677379	1991.23	ENE
9	677403	1991.23	ENE
9	677397	1991.23	ENE
10	56636	2317.75	ESE
11	358013	2311.42	SSE
14	57070	2780.34	SW
14	60183	2780.34	SW
18	2249749	3545.85	E
18	2249758	3545.85	E
18	2249750	3545.85	E
18	2249756	3545.85	E
18	2249755	3545.85	E
18	2249754	3545.85	E
18	2249753	3545.85	E
18	2249752	3545.85	E
18	2249757	3545.85	E
18	2249751	3545.85	E
18	2249748	3545.85	E
18	2249759	3545.85	E
19	84211	3477.29	ENE
20	429058	3236.37	S
21	429011	3299.66	SSW
21	429010	3299.66	SSW
21	429009	3299.66	SSW
21	429008	3299.66	SSW
21	249119	3299.66	SSW
23	250167	3700.56	NW
23	362110	3700.56	NW
24	191326	3865.87	SW
24	397277	3865.87	SW
24	59982	3865.87	SW
26	1892505	3826.10	SSW
26	1557171	3826.10	SSW
26	1557167	3826.10	SSW
26	1557143	3826.10	SSW
26	1557159	3826.10	SSW
26	1557144	3826.10	SSW
26	1557168	3826.10	SSW
26	1557187	3826.10	SSW
26	1557188	3826.10	SSW
27	476712	3770.27	NNW

27	655283	3770.27	NNW
27	476706	3770.27	NNW
27	655292	3770.27	NNW
27	605656	3770.27	NNW
27	476718	3770.27	NNW
27	476716	3770.27	NNW
27	359186	3770.27	NNW
27	476704	3770.27	NNW
27	476710	3770.27	NNW
27	476708	3770.27	NNW
27	655285	3770.27	NNW
27	528467	3770.27	NNW
27	537790	3770.27	NNW
27	655286	3770.27	NNW
27	476714	3770.27	NNW
27	655288	3770.27	NNW
27	655290	3770.27	NNW
27	360179	3770.27	NNW
27	537788	3770.27	NNW
30	937049	3849.44	SSW
30	936113	3849.44	SSW
30	936127	3849.44	SSW
30	939802	3849.44	SSW
30	936126	3849.44	SSW
31	57638	3893.71	SE
32	321610	3988.71	SSE
36	57729	4552.67	WNW
36	410077	4552.67	WNW
37	2278510	4631.73	NE
37	2278513	4631.73	NE
37	2278516	4631.73	NE
37	2278514	4631.73	NE
37	2278509	4631.73	NE
37	2278512	4631.73	NE
37	2278515	4631.73	NE
37	2278511	4631.73	NE
39	649882	4543.69	NW
39	649847	4543.69	NW
39	57664	4543.69	NW
39	776732	4543.69	NW
39	649888	4543.69	NW
39	649840	4543.69	NW
39	776638	4543.69	NW
39	649886	4543.69	NW
39	649884	4543.69	NW
39	649843	4543.69	NW
39	649841	4543.69	NW
39	649845	4543.69	NW
40	2204059	4905.63	ESE
40	2211057	4905.63	ESE
40	2211056	4905.63	ESE
40	2211058	4905.63	ESE
40	2204123	4905.63	ESE
40	2204033	4905.63	ESE
40	2204058	4905.63	ESE
40	2211055	4905.63	ESE
40	2204060	4905.63	ESE
40	2211054	4905.63	ESE
40	2204169	4905.63	ESE
40	2211053	4905.63	ESE
40	2204064	4905.63	ESE
40	2204057	4905.63	ESE
40	2204061	4905.63	ESE
40	2204143	4905.63	ESE
40	2204062	4905.63	ESE
40	2204063	4905.63	ESE

Wells and Additional Sources Summary

41	948574	4669.84	N
41	948565	4669.84	N
41	948560	4669.84	N
41	948570	4669.84	N
43	57698	4802.03	SSE
44	605660	4896.70	WNW
44	58329	4896.70	WNW
44	249421	4896.70	WNW
45	301160	4977.02	NNE
45	301733	4977.02	NNE
45	301745	4977.02	NNE
45	301735	4977.02	NNE
45	301737	4977.02	NNE
45	301156	4977.02	NNE
45	301746	4977.02	NNE
45	301738	4977.02	NNE
45	301739	4977.02	NNE
45	301732	4977.02	NNE
45	301158	4977.02	NNE
45	301159	4977.02	NNE
45	301749	4977.02	NNE
45	301736	4977.02	NNE
45	301734	4977.02	NNE
45	301157	4977.02	NNE
45	301748	4977.02	NNE
45	301750	4977.02	NNE
45	301747	4977.02	NNE
45	301731	4977.02	NNE
45	301161	4977.02	NNE
45	301162	4977.02	NNE
45	301155	4977.02	NNE
46	57862	5225.02	ESE
49	252772	5208.61	SSE

Public Water Systems Violations and Enforcement Data

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	W	0.87	4,609.42	334.10	PWSV

PWS ID:	WA5320050
PWS Type Code:	CWS
PWS Type Description:	Community water system
Primary Source Code:	GW
Primary Source Desc:	Ground water
PWS Activity Code:	A
PWS Activity Description:	Active
PWS Deactivation Date:	
Zip Code:	98363
Phone No:	
Phone Ext No:	
Admin Name:	Ryan Heskett
Alt Phone No:	
Email Addr:	
Fax No:	
Cds ID:	
Population Served Count:	1453
Epa Region Desc:	Region 10
Epa Region:	10
First Reported Date:	02/07/1981
Gw or Sw:	Groundwater
Gw Sw Code:	GW
Is Grant Eligible Ind:	Yes
Outstanding Performer:	Yes
Is School or Daycare Ind:	No
Is Source Water Protection:	
Is Wholesaler Ind:	No
Lt2 Schedule Cat:	
Lt2 Schedule Cat Code:	
Last Reported Date:	09/28/2023
Org Name:	Dry Creek Water Association
Outstanding Perform Begin Date:	05/03/2006
Owner Type:	Private
Pop Cat 11:	1,001-3,300
Pop Cat 2:	<10,000
Pop Cat 3:	<=3300
Pop Cat 4:	<10K
Pop Cat 5:	501-3,300
Primacy Agency:	Washington
Season Begin Date:	

Season End Date:	
Service Connections Count:	504
Submission Status Code:	Y
Submissionyearquarter:	2023Q3
Primacy Type:	State
Dbpr Schedule Category:	
Submission Status:	Reported and accepted
Reduced Monitoring Begin Date:	
Reduced Monitoring End Date:	
Reduced Rtcr Monitoring:	
Seasonal Startup System:	
Source Protection Begin Date:	
City Served:	
County Served:	Clallam

Safe Drinking Water Information System (SDWIS)

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	W	0.87	4,609.42	334.10	SDWIS

PWS ID:	WA5320050
PWS Type Code:	CWS
PSW Type:	Community water system
Primary Source Code:	GW
Primary Source:	Ground water
Pws Activity Code:	A
Activity:	Active
PWS Deactivation Dt:	
Phone No:	
Phone Ext No:	
Admin Name:	Ryan Heskett
Alt Phone No:	
Email Addr:	
Fax No:	
Cds ID:	
Population Served Count:	1453
Epa Region Desc:	Region 10
Epa Region:	10
First Reported Date:	02/07/1981
Gw or Sw:	Groundwater
Is Grant Eligible Ind:	Yes
Outstanding Performer:	Yes
Is School or Daycare Ind:	No
Is Wholesaler Ind:	No
Lt2 Schedule Cat:	
Last Reported Date:	09/28/2023

Wells and Additional Sources Detail Report

Org Name:	Dry Creek Water Association
Outstanding Perform Begin Date:	05/03/2006
Owner Type:	Private
Pop Cat 11:	1,001-3,300
Pop Cat 2:	<10,000
Pop Cat 3:	<=3300
Pop Cat 4:	<10K
Pop Cat 5:	501-3,300
Primacy Agency:	Washington
Primacy Agency Code:	WA
Season Begin Date:	
Season End Date:	
Service Connections Count:	504
Submission Yr Qtr:	2023Q3
Primacy Type:	State
Dbpr Schedule Category:	
Submission Status:	Reported and accepted
Reduced Monitoring Begin:	
Reduced Monitoring End Date:	
Reduced Rtcr Monitoring:	
Seasonal Startup System:	
Source Protection Begin Date:	
City Served:	
County Served:	Clallam

USGS National Water Information System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	N	0.05	290.36	292.48	FED USGS

Site No:	USGS-480700123304501
Site Type:	Well
Formation Type:	
Date Drilled:	19010101
Well Depth:	14.6
Well Depth Unit:	ft
Well Hole Depth:	
Well Hole Depth Unit:	
Reporting Agency:	USGS Washington Water Science Center
Station Name:	30N/07W-01Q01
Latitude:	48.11647855000000
Longitude:	-123.5137993000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	SSW	0.06	300.85	326.64	FED USGS

Site No: USGS-480640123304002
Site Type: Well
Formation Type:
Date Drilled: 19480101
Well Depth: 52.2
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/07W-12G02
Latitude: 48.11092300000000
Longitude: -123.5146326000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	WSW	0.13	679.20	320.51	FED USGS

Site No: USGS-480654123305601
Site Type: Well
Formation Type:
Date Drilled: 19370101
Well Depth: 20
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/07W-12C01
Latitude: 48.11286740000000
Longitude: -123.5179660000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	SSE	0.08	448.55	326.18	FED USGS

Site No: USGS-480640123304001
Site Type: Well
Formation Type:
Date Drilled: 19010101
Well Depth: 24
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/07W-12G01
Latitude: 48.11092300000000
Longitude: -123.5110213000000

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	S	0.10	503.63	328.91	FED USGS

Site No:	USGS-12046600
Site Type:	Stream
Formation Type:	
Date Drilled:	
Well Depth:	
Well Depth Unit:	
Well Hole Depth:	
Well Hole Depth Unit:	
Reporting Agency:	USGS Washington Water Science Center
Station Name:	DRY CREEK AT HWY 101 NEAR PORT ANGELES, WA
Latitude:	48.11036745000000
Longitude:	-123.5143548000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	ESE	0.30	1,585.20	324.40	FED USGS

Site No:	USGS-480641123301501
Site Type:	Well
Formation Type:	
Date Drilled:	19380101
Well Depth:	12.8
Well Depth Unit:	ft
Well Hole Depth:	
Well Hole Depth Unit:	
Reporting Agency:	USGS Washington Water Science Center
Station Name:	30N/07W-12H01
Latitude:	48.11120080000000
Longitude:	-123.5054655000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	S	0.31	1,624.66	382.03	FED USGS

Site No:	USGS-480627123305501
Site Type:	Well
Formation Type:	
Date Drilled:	19010101
Well Depth:	18.7
Well Depth Unit:	ft
Well Hole Depth:	
Well Hole Depth Unit:	
Reporting Agency:	USGS Washington Water Science Center

Wells and Additional Sources Detail Report

Station Name: 30N/07W-12L01
Latitude: 48.10731189000000
Longitude: -123.5151881000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	WNW	0.49	2,598.23	274.25	FED USGS

Site No: USGS-480708123311501
Site Type: Well
Formation Type:
Date Drilled: 19330101
Well Depth: 156
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/07W-01N01
Latitude: 48.11870069000000
Longitude: -123.5251886000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	S	0.50	2,666.17	399.30	FED USGS

Site No: USGS-480615123304601
Site Type: Well
Formation Type:
Date Drilled: 19460101
Well Depth: 8
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/07W-12Q01
Latitude: 48.10453410000000
Longitude: -123.5121324000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	E	0.59	3,116.97	294.48	FED USGS

Site No: USGS-480657123295702
Site Type: Well
Formation Type:
Date Drilled: 19010101
Well Depth: 22
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/06W-07C01
Latitude: 48.11258979000000
Longitude: -123.4990764000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	SE	0.56	2,958.51	398.36	FED USGS

Site No: USGS-480630123301401
Site Type: Well
Formation Type:
Date Drilled: 19010101
Well Depth: 35.9
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/07W-12J01
Latitude: 48.10564530000000
Longitude: -123.5043543000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	E	0.64	3,388.31	293.03	FED USGS

Site No: USGS-480657123295701
Site Type: Well
Formation Type:
Date Drilled: 19010101
Well Depth: 16
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/06W-07C02
Latitude: 48.11258980000000
Longitude: -123.4979653000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	SW	0.68	3,571.33	377.14	FED USGS

Site No: USGS-480622123313001
Site Type: Well
Formation Type:

Date Drilled: 19010101
Well Depth: 22.6
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/07W-11J01
Latitude: 48.10592290000000
Longitude: -123.5262997000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	SW	0.68	3,571.33	377.14	FED USGS

Site No: USGS-480622123313002
Site Type: Well
Formation Type:
Date Drilled: 19791010
Well Depth: 70
Well Depth Unit: ft
Well Hole Depth: 70
Well Hole Depth Unit: ft
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/07W-11J02
Latitude: 48.10592290000000
Longitude: -123.5262997000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	S	0.72	3,810.35	427.72	FED USGS

Site No: USGS-480615123304602
Site Type: Well
Formation Type:
Date Drilled: 19010101
Well Depth: 7
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/07W-12Q02
Latitude: 48.10147860000000
Longitude: -123.5110213000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	E	0.80	4,202.45	282.94	FED USGS

Site No: USGS-480653123293801
Site Type: Well
Formation Type:
Date Drilled: 19010101
Well Depth: 22
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/06W-07B01
Latitude: 48.11286760000000
Longitude: -123.4946319000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
29	W	0.78	4,117.65	333.01	FED USGS

Site No: USGS-480649123315402
Site Type: Well
Formation Type:
Date Drilled: 19500101
Well Depth: 212
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/07W-11B02
Latitude: 48.11231176000000
Longitude: -123.5324110000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	SE	0.79	4,181.27	386.33	FED USGS

Site No: USGS-480624123294401
Site Type: Well
Formation Type:
Date Drilled: 19620731
Well Depth: 217
Well Depth Unit: ft
Well Hole Depth: 221
Well Hole Depth Unit: ft
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/06W-07K01
Latitude: 48.10647870000000
Longitude: -123.4968540000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
34	SSE	0.78	4,117.23	448.89	FED USGS

Site No:	USGS-480620123300001
Site Type:	Well
Formation Type:	
Date Drilled:	19780706
Well Depth:	320
Well Depth Unit:	ft
Well Hole Depth:	320
Well Hole Depth Unit:	ft
Reporting Agency:	USGS Washington Water Science Center
Station Name:	30N/06W-07N01
Latitude:	48.10231199000000
Longitude:	-123.5032432000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
42	W	0.94	4,976.52	331.70	FED USGS

Site No:	USGS-480649123315401
Site Type:	Well
Formation Type:	
Date Drilled:	19010101
Well Depth:	272
Well Depth Unit:	ft
Well Hole Depth:	
Well Hole Depth Unit:	
Reporting Agency:	USGS Washington Water Science Center
Station Name:	30N/07W-11B01
Latitude:	48.11258950000000
Longitude:	-123.5360224000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
47	NW	0.95	5,032.00	219.80	FED USGS

Site No:	USGS-480726123301701
Site Type:	Well
Formation Type:	
Date Drilled:	19010101
Well Depth:	20
Well Depth Unit:	ft
Well Hole Depth:	
Well Hole Depth Unit:	
Reporting Agency:	USGS Washington Water Science Center
Station Name:	30N/07W-02H01
Latitude:	48.12620060000000

Longitude: -123.5290777000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
48	SW	0.99	5,213.97	406.08	FED USGS

Site No: USGS-480608123314401
Site Type: Well
Formation Type:
Date Drilled: 19010101
Well Depth: 6
Well Depth Unit: ft
Well Hole Depth:
Well Hole Depth Unit:
Reporting Agency: USGS Washington Water Science Center
Station Name: 30N/07W-11R01
Latitude: 48.10203400000000
Longitude: -123.5301887000000

Public Water System Source Information

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
38	NW	0.86	4,525.41	213.50	PWS

PWS ID: 04467
Intertie ID:
Group Code: B
System Name: ELLISON, JENNIFER
Resid Population: 12
SRC No: S01
SRC Name: WELL #1
SRC Type: W
SRC Usage: P
SRC is Metered:
SRC Type Desc: Well
SRC Use Desc: PERMANENT
Treat Clorinate:
Treat Filter:
Treat Floridate:
Treat UV:
Treat Other:
WS D Sys Res Conn:
WS D FTSFR Conn: 2
WS D Sys FTMFRB U:
WS D Calc Res Conn: 2
WS D Appv Tot Conn: 2
Total Connections: 2
Depth: 206

Last WFI Update: 01/31/2006
PC Title: OWNERS
PC First Name: WILLIAM & KRISTI
PC Mid Initial:
PC Last Name: HURLEY
PC Mail Addr1 Attn:
PC Mail Addr2 Str: 13 ESTATES WAY
PC Mail Addr3 Mail:
PC Mail Ad City Nm: PORT ANGELES
PC Mail Ad State Cd: WA
PC Mail Ad Pstl Cd: 98363
PC Day Phone No: (360) 457-8213
Owner Name: WILLIAM & KRISTI HURLEY
Owner Mail Ad1 Attn:
Owner Mail Ad2 Str: 13 ESTATES WAY
Owner Mail Ad3 Mail:
Owner Mail City Nm: PORT ANGELES
Owner Mail Ad St Cd: WA
Owner Mail Pstl Cd: 98363
Owner Day Phn No: (360) 457-8213
Owner Type Desc: Private
Qtr Qtr Section: SE NE
Section No: 02
Township No: 30N

Design Capacity:	18.0	Range No:	07W
Effective Date:	04/24/1995	County:	CLALLAM

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
38	NW	0.86	4,525.41	213.50	PWS

PWS ID:	05193	Last WFI Update:	05/30/2006
Intertie ID:		PC Title:	OWNER
Group Code:	B	PC First Name:	LESLIE
System Name:	KACEE WAY WELL	PC Mid Initial:	D
Resid Population:	8	PC Last Name:	SPURRIER
SRC No:	S01	PC Mail Addr1 Attn:	
SRC Name:	WELL #1 NO TAG	PC Mail Addr2 Str:	210 KACEE WAY
SRC Type:	W	PC Mail Addr3 Mail:	
SRC Usage:	P	PC Mail Ad City Nm:	PORT ANGELES
SRC is Metered:		PC Mail Ad State Cd:	WA
SRC Type Desc:	Well	PC Mail Ad Pstl Cd:	98363
SRC Use Desc:	PERMANENT	PC Day Phone No:	(222) 333-4444
Treat Clorinate:		Owner Name:	LESLIE SPURRIER
Treat Filter:		Owner Mail Ad1 Attn:	
Treat Floridate:		Owner Mail Ad2 Str:	210 KACEE WAY
Treat UV:		Owner Mail Ad3 Mail:	
Treat Other:		Owner Mail City Nm:	PORT ANGELES
WS D Sys Res Conn:		Owner Mail Ad St Cd:	WA
WS D FTSFR Conn:	2	Owner Mail Pstl Cd:	98363
WS D Sys FTMFRB U:		Owner Day Phn No:	(222) 333-4444
WS D Calc Res Conn:	2	Owner Type Desc:	Private
WS D Appv Tot Conn:	2	Qtr Qtr Section:	SE NE
Total Connections:	2	Section No:	02
Depth:	196	Township No:	30N
Design Capacity:	18.0	Range No:	07W
Effective Date:	04/29/1996	County:	CLALLAM

Washington State Well Log Database

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	S	0.23	1,199.35	368.67	WATER WELLS

Well Log ID:	58143	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00058143.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0848	Twsp Direction Cd:	North
Notice of Inten ID:		Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	03-Oct-1986	Range Fraction No:	

Well Depth:	185.0	Section:	12
Well Diameter:	6.0	Quarter Section:	#
Horz Coll Ds:		Qtr Qtr Section:	#
Horiz Coll Meth Cd:	0	St Plane X-Coord:	903831
Well Log Receiv Dt:	27-Oct-1986	St Plane Y-Coord:	1026224
Record Creation Dt:		NAD83 Latitude:	0.0
Last Update Date:	03-Nov-2022	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	IRVEN GAGNON		
Well Log Static Lvl Qt:	118.0		
Well Log GPM Qt:	20.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Static Level		
Well Log Well Tst Cd:	Bailer Test		
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677389	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677389.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	AE10684	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677399	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677399.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	SE08108	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677395	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677395.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	SE08108	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			

Wells and Additional Sources Detail Report

Well Owner Name:	PORT OF PORT ANGELES | NTI
Well Log Static Lvl Qt:	0.0
Well Log GPM Qt:	0.0
Well Log PSI No:	0.0
Well Log Flw Type Cd:	
Well Log Well Tst Cd:	
Well Log ZIP Code:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677393	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677393.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	SE08108	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	1117944	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	1117944.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:		Twsp Direction Cd:	North
Notice of Inten ID:		Range:	06

Wells and Additional Sources Detail Report

Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	03-Jun-1982	Range Fraction No:	
Well Depth:	208.0	Section:	06
Well Diameter:	6.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	06-Dec-1982	St Plane Y-Coord:	1029068
Record Creation Dt:	06-Jan-2016	NAD83 Latitude:	0.0
Last Update Date:	06-Jan-2016	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	HARVEY D MEYERS		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677385	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677385.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	AE10684	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677391	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677391.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	SE08108	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677401	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677401.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	SE08108	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654

Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677405	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677405.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	SE08108	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	30.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677387	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677387.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	

Wells and Additional Sources Detail Report

Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	AE10684	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677381	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677381.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	AE10684	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			

Wells and Additional Sources Detail Report

Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677383	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677383.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	AE10684	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677379	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677379.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	AE10684	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608

Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677403	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677403.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	SE08108	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	15.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	ENE	0.38	1,991.23	278.49	WATER WELLS

Well Log ID:	677397	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00677397.pdf	County Name:	

Wells and Additional Sources Detail Report

Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2917	Twsp Direction Cd:	North
Notice of Inten ID:	SE08108	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	09-Sep-2010	Range Fraction No:	
Well Depth:	10.0	Section:	06
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906608
Well Log Receiv Dt:	19-Oct-2010	St Plane Y-Coord:	1029068
Record Creation Dt:	26-Oct-2010	NAD83 Latitude:	48.11654
Last Update Date:	26-Oct-2010	NAD83 Longitude:	-123.50385
Tax Parcel Identifier:			
Well Owner Name:	PORT OF PORT ANGELES | NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	ESE	0.44	2,317.75	325.49	WATER WELLS

Well Log ID:	56636	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00056636.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0473	Twsp Direction Cd:	North
Notice of Inten ID:		Range:	06
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	31-Jul-1962	Range Fraction No:	
Well Depth:	221.0	Section:	07
Well Diameter:	6.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906807
Well Log Receiv Dt:	05-Feb-1975	St Plane Y-Coord:	1026801
Record Creation Dt:		NAD83 Latitude:	48.11035
Last Update Date:	24-Mar-2020	NAD83 Longitude:	-123.50268
Tax Parcel Identifier:			
Well Owner Name:	ALLAN & NADINE FERGUSON		
Well Log Static Lvl Qt:	148.0		
Well Log GPM Qt:	35.0		
Well Log PSI No:	0.0		

Well Log Flw Type Cd:	Static Level
Well Log Well Tst Cd:	Bailer Test
Well Log ZIP Code:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	SSE	0.44	2,311.42	390.09	WATER WELLS

Well Log ID:	358013	Region Code:	4
Well Tag ID:	AEN345	County ID:	9
Well Log Image Nm:	00358013.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2579	Twsp Direction Cd:	North
Notice of Inten ID:	W162210	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	08-Oct-2002	Range Fraction No:	
Well Depth:	182.0	Section:	12
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	905779
Well Log Receiv Dt:	09-Dec-2002	St Plane Y-Coord:	1025510
Record Creation Dt:	24-Apr-2003	NAD83 Latitude:	48.10671
Last Update Date:	24-Apr-2003	NAD83 Longitude:	-123.50668
Tax Parcel Identifier:	073012 419060		
Well Owner Name:	HAROLD GALLAHAUER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	SW	0.53	2,780.34	355.20	WATER WELLS

Well Log ID:	57070	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00057070.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0524	Twsp Direction Cd:	North
Notice of Inten ID:	068217	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	20-Jun-1992	Range Fraction No:	
Well Depth:	123.0	Section:	12
Well Diameter:	6.0	Quarter Section:	SW

Horz Coll Ds:		Qtr Qtr Section:	NW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901831
Well Log Receiv Dt:		St Plane Y-Coord:	1025601
Record Creation Dt:		NAD83 Latitude:	48.10654
Last Update Date:		NAD83 Longitude:	-123.52284
Tax Parcel Identifier:			
Well Owner Name:	CHARLES GAGNON		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	SW	0.53	2,780.34	355.20	WATER WELLS

Well Log ID:	60183	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00060183.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2001	Twsp Direction Cd:	North
Notice of Inten ID:	W055361	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	06-Oct-1995	Range Fraction No:	
Well Depth:	108.0	Section:	12
Well Diameter:	6.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	NW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901831
Well Log Receiv Dt:	17-Jan-1996	St Plane Y-Coord:	1025601
Record Creation Dt:		NAD83 Latitude:	48.10654
Last Update Date:		NAD83 Longitude:	-123.52284
Tax Parcel Identifier:			
Well Owner Name:	WES GAGNON		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID:	2249749	Region Code:	4

Wells and Additional Sources Detail Report

Well Tag ID:		County ID:	9
Well Log Image Nm:	801784.pdf	County Name:	
Project Tag No:	B2	Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3426	Twsp Direction Cd:	North
Notice of Inten ID:	SE87144	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	07-Nov-2023	Range Fraction No:	
Well Depth:	21.5	Section:	07
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908167
Well Log Receiv Dt:	07-Dec-2023	St Plane Y-Coord:	1028089
Record Creation Dt:	22-Dec-2023	NAD83 Latitude:	0.0
Last Update Date:	22-Dec-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Port Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID:	2249758	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	801787.pdf	County Name:	
Project Tag No:	B4	Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3426	Twsp Direction Cd:	North
Notice of Inten ID:	AE80338	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	08-Nov-2023	Range Fraction No:	
Well Depth:	21.5	Section:	07
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908167
Well Log Receiv Dt:	07-Dec-2023	St Plane Y-Coord:	1028089
Record Creation Dt:	22-Dec-2023	NAD83 Latitude:	0.0
Last Update Date:	22-Dec-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Port Of Port Angeles		
Well Log Static Lvl Qt:	0.0		

Well Log GPM Qt: 0.0
Well Log PSI No: 0.0
Well Log Flw Type Cd: Dry Hole
Well Log Well Tst Cd:
Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID: 2249750
Well Tag ID:
Well Log Image Nm: 801784.pdf
Project Tag No: B3
WRIA No: 0
Driller No: 3426
Notice of Inten ID: SE87144
Well Type Code: S
Well Completion Dt: 07-Nov-2023
Well Depth: 21.5
Well Diameter: 8.0
Horz Coll Ds:
Horiz Coll Meth Cd: 0
Well Log Receiv Dt: 07-Dec-2023
Record Creation Dt: 22-Dec-2023
Last Update Date: 22-Dec-2023
Tax Parcel Identifier:
Well Owner Name: Port Of Port Angeles
Well Log Static Lvl Qt: 0.0
Well Log GPM Qt: 0.0
Well Log PSI No: 0.0
Well Log Flw Type Cd: Dry Hole
Well Log Well Tst Cd:
Well Log ZIP Code:

Region Code: 4
County ID: 9
County Name:
Township: 30
Twsp Fraction No:
Twsp Direction Cd: North
Range: 06
Range Dir Code: West
Range Fraction No:
Section: 07
Quarter Section: NW
Qtr Qtr Section: NE
St Plane X-Coord: 908167
St Plane Y-Coord: 1028089
NAD83 Latitude: 0.0
NAD83 Longitude: 0.0

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID: 2249756
Well Tag ID:
Well Log Image Nm: 801786.pdf
Project Tag No: B4
WRIA No: 0
Driller No: 3426
Notice of Inten ID: SE87144
Well Type Code: S
Well Completion Dt: 08-Nov-2023

Region Code: 4
County ID: 9
County Name:
Township: 30
Twsp Fraction No:
Twsp Direction Cd: North
Range: 06
Range Dir Code: West
Range Fraction No:

Well Depth:	21.5	Section:	07
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908167
Well Log Receiv Dt:	07-Dec-2023	St Plane Y-Coord:	1028089
Record Creation Dt:	22-Dec-2023	NAD83 Latitude:	0.0
Last Update Date:	22-Dec-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Port Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID:	2249755	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	801785.pdf	County Name:	
Project Tag No:	B5	Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3426	Twsp Direction Cd:	North
Notice of Inten ID:	AE80338	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	07-Nov-2023	Range Fraction No:	
Well Depth:	21.5	Section:	07
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908167
Well Log Receiv Dt:	07-Dec-2023	St Plane Y-Coord:	1028089
Record Creation Dt:	22-Dec-2023	NAD83 Latitude:	0.0
Last Update Date:	22-Dec-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Port Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID:	2249754	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	801785.pdf	County Name:	
Project Tag No:	B3	Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3426	Twsp Direction Cd:	North
Notice of Inten ID:	AE80338	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	07-Nov-2023	Range Fraction No:	
Well Depth:	21.5	Section:	07
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908167
Well Log Receiv Dt:	07-Dec-2023	St Plane Y-Coord:	1028089
Record Creation Dt:	22-Dec-2023	NAD83 Latitude:	0.0
Last Update Date:	22-Dec-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Port Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID:	2249753	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	801785.pdf	County Name:	
Project Tag No:	B2	Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3426	Twsp Direction Cd:	North
Notice of Inten ID:	AE80338	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	07-Nov-2023	Range Fraction No:	
Well Depth:	21.5	Section:	07
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908167
Well Log Receiv Dt:	07-Dec-2023	St Plane Y-Coord:	1028089
Record Creation Dt:	22-Dec-2023	NAD83 Latitude:	0.0
Last Update Date:	22-Dec-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			

Wells and Additional Sources Detail Report

Well Owner Name:	Port Of Port Angeles
Well Log Static Lvl Qt:	0.0
Well Log GPM Qt:	0.0
Well Log PSI No:	0.0
Well Log Flw Type Cd:	Dry Hole
Well Log Well Tst Cd:	
Well Log ZIP Code:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID:	2249752	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	801785.pdf	County Name:	
Project Tag No:	B1	Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3426	Twsp Direction Cd:	North
Notice of Inten ID:	AE80338	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	07-Nov-2023	Range Fraction No:	
Well Depth:	21.5	Section:	07
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908167
Well Log Receiv Dt:	07-Dec-2023	St Plane Y-Coord:	1028089
Record Creation Dt:	22-Dec-2023	NAD83 Latitude:	0.0
Last Update Date:	22-Dec-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Port Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID:	2249757	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	801786.pdf	County Name:	
Project Tag No:	B6	Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3426	Twsp Direction Cd:	North
Notice of Inten ID:	SE87144	Range:	06

Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	08-Nov-2023	Range Fraction No:	
Well Depth:	21.5	Section:	07
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908167
Well Log Receiv Dt:	07-Dec-2023	St Plane Y-Coord:	1028089
Record Creation Dt:	22-Dec-2023	NAD83 Latitude:	0.0
Last Update Date:	22-Dec-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Port Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID:	2249751	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	801784.pdf	County Name:	
Project Tag No:	B5	Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3426	Twsp Direction Cd:	North
Notice of Inten ID:	SE87144	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	07-Nov-2023	Range Fraction No:	
Well Depth:	21.5	Section:	07
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908167
Well Log Receiv Dt:	07-Dec-2023	St Plane Y-Coord:	1028089
Record Creation Dt:	22-Dec-2023	NAD83 Latitude:	0.0
Last Update Date:	22-Dec-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Port Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID:	2249748	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	801784.pdf	County Name:	
Project Tag No:	B1	Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3426	Twsp Direction Cd:	North
Notice of Inten ID:	SE87144	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	07-Nov-2023	Range Fraction No:	
Well Depth:	21.5	Section:	07
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908167
Well Log Receiv Dt:	07-Dec-2023	St Plane Y-Coord:	1028089
Record Creation Dt:	22-Dec-2023	NAD83 Latitude:	0.0
Last Update Date:	22-Dec-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Port Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.67	3,545.85	273.14	WATER WELLS

Well Log ID:	2249759	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	801787.pdf	County Name:	
Project Tag No:	B6	Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3426	Twsp Direction Cd:	North
Notice of Inten ID:	AE80338	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	08-Nov-2023	Range Fraction No:	
Well Depth:	21.5	Section:	07
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908167
Well Log Receiv Dt:	07-Dec-2023	St Plane Y-Coord:	1028089
Record Creation Dt:	22-Dec-2023	NAD83 Latitude:	0.0

Last Update Date:	22-Dec-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Port Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	ENE	0.66	3,477.29	269.62	WATER WELLS

Well Log ID:	84211	Region Code:	3
Well Tag ID:	ABC353	County ID:	61
Well Log Image Nm:	00084211.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1514	Twsp Direction Cd:	North
Notice of Inten ID:	W010205	Range:	06
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	28-Jul-1993	Range Fraction No:	
Well Depth:	75.0	Section:	06
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908119
Well Log Receiv Dt:	08-Nov-1993	St Plane Y-Coord:	1028851
Record Creation Dt:		NAD83 Latitude:	48.1161
Last Update Date:	25-Oct-2002	NAD83 Longitude:	-123.49763
Tax Parcel Identifier:			
Well Owner Name:	RUSS CLIFTON		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	S	0.61	3,236.37	427.74	WATER WELLS

Well Log ID:	429058	Region Code:	4
Well Tag ID:	AKB880	County ID:	9
Well Log Image Nm:	00429058.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	

Wells and Additional Sources Detail Report

Driller No:	1979	Twsp Direction Cd:	North
Notice of Inten ID:	W190328	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	29-Dec-2005	Range Fraction No:	
Well Depth:	262.0	Section:	12
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	904417
Well Log Receiv Dt:	12-Jan-2006	St Plane Y-Coord:	1024194
Record Creation Dt:	26-Jan-2006	NAD83 Latitude:	48.10296
Last Update Date:	26-Jan-2006	NAD83 Longitude:	-123.51205
Tax Parcel Identifier:			
Well Owner Name:	LOUIS GUILLARY		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	SSW	0.62	3,299.66	421.18	WATER WELLS

Well Log ID:	429011	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00429011.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2310	Twsp Direction Cd:	North
Notice of Inten ID:	S026023	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	01-Dec-2005	Range Fraction No:	
Well Depth:	25.0	Section:	12
Well Diameter:	0.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	903098
Well Log Receiv Dt:	13-Jan-2006	St Plane Y-Coord:	1024226
Record Creation Dt:	26-Jan-2006	NAD83 Latitude:	48.10291
Last Update Date:	26-Jan-2006	NAD83 Longitude:	-123.51745
Tax Parcel Identifier:			
Well Owner Name:	NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			

Wells and Additional Sources Detail Report

Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	SSW	0.62	3,299.66	421.18	WATER WELLS

Well Log ID:	429010	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00429010.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2310	Twsp Direction Cd:	North
Notice of Inten ID:	S026023	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	01-Dec-2005	Range Fraction No:	
Well Depth:	30.0	Section:	12
Well Diameter:	0.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	903098
Well Log Receiv Dt:	13-Jan-2006	St Plane Y-Coord:	1024226
Record Creation Dt:	26-Jan-2006	NAD83 Latitude:	48.10291
Last Update Date:	26-Jan-2006	NAD83 Longitude:	-123.51745
Tax Parcel Identifier:			
Well Owner Name:	NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	SSW	0.62	3,299.66	421.18	WATER WELLS

Well Log ID:	429009	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00429009.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2310	Twsp Direction Cd:	North
Notice of Inten ID:	S026023	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	01-Dec-2005	Range Fraction No:	
Well Depth:	45.0	Section:	12
Well Diameter:	0.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	903098

Well Log Receiv Dt:	13-Jan-2006	St Plane Y-Coord:	1024226
Record Creation Dt:	26-Jan-2006	NAD83 Latitude:	48.10291
Last Update Date:	26-Jan-2006	NAD83 Longitude:	-123.51745
Tax Parcel Identifier:			
Well Owner Name:	NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	SSW	0.62	3,299.66	421.18	WATER WELLS

Well Log ID:	429008	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00429008.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2310	Twsp Direction Cd:	North
Notice of Inten ID:	S026023	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	01-Dec-2005	Range Fraction No:	
Well Depth:	50.0	Section:	12
Well Diameter:	0.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	903098
Well Log Receiv Dt:	13-Jan-2006	St Plane Y-Coord:	1024226
Record Creation Dt:	26-Jan-2006	NAD83 Latitude:	48.10291
Last Update Date:	26-Jan-2006	NAD83 Longitude:	-123.51745
Tax Parcel Identifier:			
Well Owner Name:	NTI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	SSW	0.62	3,299.66	421.18	WATER WELLS

Well Log ID:	249119	Region Code:	4
Well Tag ID:	AFA452	County ID:	9
Well Log Image Nm:	00249119.pdf	County Name:	

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Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:		Twsp Direction Cd:	North
Notice of Inten ID:		Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	05-Nov-1999	Range Fraction No:	
Well Depth:	135.0	Section:	12
Well Diameter:	6.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	903098
Well Log Receiv Dt:	22-Dec-1999	St Plane Y-Coord:	1024226
Record Creation Dt:	16-Jan-2001	NAD83 Latitude:	48.10291
Last Update Date:		NAD83 Longitude:	-123.51745
Tax Parcel Identifier:			
Well Owner Name:	CROWN PACIFIC		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	NW	0.70	3,700.56	253.40	WATER WELLS

Well Log ID:	250167	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00250167.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:		Twsp Direction Cd:	North
Notice of Inten ID:		Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	21-Apr-1995	Range Fraction No:	
Well Depth:	0.0	Section:	02
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900686
Well Log Receiv Dt:	11-Feb-2000	St Plane Y-Coord:	1030977
Record Creation Dt:	16-Jan-2001	NAD83 Latitude:	48.12115
Last Update Date:		NAD83 Longitude:	-123.52836
Tax Parcel Identifier:			
Well Owner Name:	KEVIN RICHMOND		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		

Well Log Flw Type Cd:
Well Log Well Tst Cd:
Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	NW	0.70	3,700.56	253.40	WATER WELLS

Well Log ID:	362110	Region Code:	4
Well Tag ID:	AGQ640	County ID:	9
Well Log Image Nm:	00362110.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0848	Twsp Direction Cd:	North
Notice of Inten ID:	W159386	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	11-Nov-2002	Range Fraction No:	
Well Depth:	206.0	Section:	02
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900686
Well Log Receiv Dt:	14-May-2003	St Plane Y-Coord:	1030977
Record Creation Dt:	11-Jun-2003	NAD83 Latitude:	48.12115
Last Update Date:	11-Jun-2003	NAD83 Longitude:	-123.52836
Tax Parcel Identifier:			
Well Owner Name:	EJ MCDOUGALL		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	SW	0.73	3,865.87	366.52	WATER WELLS

Well Log ID:	191326	Region Code:	4
Well Tag ID:	AFA368	County ID:	9
Well Log Image Nm:	00191326.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0868	Twsp Direction Cd:	North
Notice of Inten ID:	W110295	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	29-Jul-1999	Range Fraction No:	
Well Depth:	98.0	Section:	11
Well Diameter:	6.0	Quarter Section:	SE

Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900493
Well Log Receiv Dt:		St Plane Y-Coord:	1025637
Record Creation Dt:		NAD83 Latitude:	48.1065
Last Update Date:		NAD83 Longitude:	-123.52832
Tax Parcel Identifier:			
Well Owner Name:	MARY ZALEWSKI		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	SW	0.73	3,865.87	366.52	WATER WELLS

Well Log ID:	397277	Region Code:	4
Well Tag ID:	AHL532	County ID:	9
Well Log Image Nm:	00397277.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0868	Twsp Direction Cd:	North
Notice of Inten ID:	W182680	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	16-Nov-2004	Range Fraction No:	
Well Depth:	116.0	Section:	11
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900493
Well Log Receiv Dt:	13-Jan-2005	St Plane Y-Coord:	1025637
Record Creation Dt:	20-Jan-2005	NAD83 Latitude:	48.1065
Last Update Date:	20-Jan-2005	NAD83 Longitude:	-123.52832
Tax Parcel Identifier:			
Well Owner Name:	TOM GAGNON		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	SW	0.73	3,865.87	366.52	WATER WELLS

Well Log ID:	59982	Region Code:	4

Wells and Additional Sources Detail Report

Well Tag ID:		County ID:	9
Well Log Image Nm:	00059982.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0848	Twsp Direction Cd:	North
Notice of Inten ID:		Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	10-Oct-1979	Range Fraction No:	
Well Depth:	70.0	Section:	11
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900493
Well Log Receiv Dt:	04-Mar-1980	St Plane Y-Coord:	1025637
Record Creation Dt:		NAD83 Latitude:	48.1065
Last Update Date:		NAD83 Longitude:	-123.52832
Tax Parcel Identifier:			
Well Owner Name:	TOM GAGNON		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	SSW	0.72	3,826.10	416.89	WATER WELLS

Well Log ID:	1892505	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	1892505.pdf	County Name:	
Project Tag No:	B-1	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0	Twsp Direction Cd:	North
Notice of Inten ID:	SE53067	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	02-Oct-2014	Range Fraction No:	
Well Depth:	150.0	Section:	12
Well Diameter:	8.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	10-Nov-2014	St Plane Y-Coord:	1024259
Record Creation Dt:	13-Mar-2019	NAD83 Latitude:	0.0
Last Update Date:	13-Mar-2019	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		

Well Log GPM Qt: 0.0
Well Log PSI No: 0.0
Well Log Flw Type Cd:
Well Log Well Tst Cd:
Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	SSW	0.72	3,826.10	416.89	WATER WELLS

Well Log ID: 1557171
Well Tag ID:
Well Log Image Nm: 1557171.pdf
Project Tag No:
WRIA No: 18
Driller No: 3021
Notice of Inten ID: SE56699
Well Type Code: S
Well Completion Dt: 06-Dec-2015
Well Depth: 28.0
Well Diameter: 8.0
Horz Coll Ds:
Horiz Coll Meth Cd: 0
Well Log Receiv Dt: 10-Mar-2016
Record Creation Dt: 21-Apr-2016
Last Update Date: 21-Apr-2016
Tax Parcel Identifier:
Well Owner Name: Interfor US Inc
Well Log Static Lvl Qt: 0.0
Well Log GPM Qt: 0.0
Well Log PSI No: 0.0
Well Log Flw Type Cd:
Well Log Well Tst Cd:
Well Log ZIP Code:

Region Code: 4
County ID: 9
County Name:
Township: 30
Twsp Fraction No:
Twsp Direction Cd: North
Range: 07
Range Dir Code: West
Range Fraction No:
Section: 12
Quarter Section: SW
Qtr Qtr Section: SW
St Plane X-Coord: 901776
St Plane Y-Coord: 1024259
NAD83 Latitude: 0.0
NAD83 Longitude: 0.0

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	SSW	0.72	3,826.10	416.89	WATER WELLS

Well Log ID: 1557167
Well Tag ID:
Well Log Image Nm: 1557167.pdf
Project Tag No:
WRIA No: 18
Driller No: 3021
Notice of Inten ID: AE35011
Well Type Code: Decommisioning
Well Completion Dt: 06-Dec-2015

Region Code: 4
County ID: 9
County Name:
Township: 30
Twsp Fraction No:
Twsp Direction Cd: North
Range: 07
Range Dir Code: West
Range Fraction No:

Well Depth:	22.0	Section:	12
Well Diameter:	8.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	10-Mar-2016	St Plane Y-Coord:	1024259
Record Creation Dt:	21-Apr-2016	NAD83 Latitude:	0.0
Last Update Date:	21-Apr-2016	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	SSW	0.72	3,826.10	416.89	WATER WELLS

Well Log ID:	1557143	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	1557143.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3021	Twsp Direction Cd:	North
Notice of Inten ID:	SE56699	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	06-Dec-2015	Range Fraction No:	
Well Depth:	33.5	Section:	12
Well Diameter:	8.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	10-Mar-2016	St Plane Y-Coord:	1024259
Record Creation Dt:	21-Apr-2016	NAD83 Latitude:	0.0
Last Update Date:	21-Apr-2016	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	SSW	0.72	3,826.10	416.89	WATER WELLS

Well Log ID:	1557159	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	1557159.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3021	Twsp Direction Cd:	North
Notice of Inten ID:	SE56699	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	06-Dec-2015	Range Fraction No:	
Well Depth:	22.0	Section:	12
Well Diameter:	8.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	10-Mar-2016	St Plane Y-Coord:	1024259
Record Creation Dt:	21-Apr-2016	NAD83 Latitude:	0.0
Last Update Date:	21-Apr-2016	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	SSW	0.72	3,826.10	416.89	WATER WELLS

Well Log ID:	1557144	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	1557144.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3021	Twsp Direction Cd:	North
Notice of Inten ID:	AE35011	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	06-Dec-2015	Range Fraction No:	
Well Depth:	28.0	Section:	12
Well Diameter:	8.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	10-Mar-2016	St Plane Y-Coord:	1024259
Record Creation Dt:	21-Apr-2016	NAD83 Latitude:	0.0
Last Update Date:	21-Apr-2016	NAD83 Longitude:	0.0
Tax Parcel Identifier:			

Wells and Additional Sources Detail Report

Well Owner Name:	Interfor US Inc
Well Log Static Lvl Qt:	0.0
Well Log GPM Qt:	0.0
Well Log PSI No:	0.0
Well Log Flw Type Cd:	
Well Log Well Tst Cd:	
Well Log ZIP Code:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	SSW	0.72	3,826.10	416.89	WATER WELLS

Well Log ID:	1557168	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	1557168.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3021	Twsp Direction Cd:	North
Notice of Inten ID:	AE35011	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	06-Dec-2015	Range Fraction No:	
Well Depth:	25.0	Section:	12
Well Diameter:	8.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	10-Mar-2016	St Plane Y-Coord:	1024259
Record Creation Dt:	21-Apr-2016	NAD83 Latitude:	0.0
Last Update Date:	21-Apr-2016	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	SSW	0.72	3,826.10	416.89	WATER WELLS

Well Log ID:	1557187	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	1557187.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3021	Twsp Direction Cd:	North
Notice of Inten ID:	SE56699	Range:	07

Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	06-Dec-2015	Range Fraction No:	
Well Depth:	25.0	Section:	12
Well Diameter:	8.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	10-Mar-2016	St Plane Y-Coord:	1024259
Record Creation Dt:	21-Apr-2016	NAD83 Latitude:	0.0
Last Update Date:	21-Apr-2016	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	SSW	0.72	3,826.10	416.89	WATER WELLS

Well Log ID:	1557188	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	1557188.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3021	Twsp Direction Cd:	North
Notice of Inten ID:	AE35011	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	06-Dec-2015	Range Fraction No:	
Well Depth:	33.5	Section:	12
Well Diameter:	8.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	10-Mar-2016	St Plane Y-Coord:	1024259
Record Creation Dt:	21-Apr-2016	NAD83 Latitude:	0.0
Last Update Date:	21-Apr-2016	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	476712	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00476712.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1827	Twsp Direction Cd:	North
Notice of Inten ID:	S012802	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	26-Mar-2003	Range Fraction No:	
Well Depth:	35.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	25-Apr-2007	St Plane Y-Coord:	1032291
Record Creation Dt:	04-May-2007	NAD83 Latitude:	48.12489
Last Update Date:	04-May-2007	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	CITY OF PORT ANGELES		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	655283	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00655283.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2684	Twsp Direction Cd:	North
Notice of Inten ID:	SE06545	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	01-Apr-2010	Range Fraction No:	
Well Depth:	10.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	22-Apr-2010	St Plane Y-Coord:	1032291
Record Creation Dt:	18-Jun-2010	NAD83 Latitude:	48.12489

Last Update Date:	18-Jun-2010	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	City of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	476706	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00476706.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1827	Twsp Direction Cd:	North
Notice of Inten ID:	S012802	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	26-Mar-2003	Range Fraction No:	
Well Depth:	35.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	25-Apr-2007	St Plane Y-Coord:	1032291
Record Creation Dt:	04-May-2007	NAD83 Latitude:	48.12489
Last Update Date:	04-May-2007	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	CITY OF PORT ANGELES		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	655292	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00655292.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	

Wells and Additional Sources Detail Report

Driller No:	2684	Twsp Direction Cd:	North
Notice of Inten ID:	AE08486	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	01-Apr-2010	Range Fraction No:	
Well Depth:	30.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	22-Apr-2010	St Plane Y-Coord:	1032291
Record Creation Dt:	18-Jun-2010	NAD83 Latitude:	48.12489
Last Update Date:	18-Jun-2010	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	City of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	605656	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00605656.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2934	Twsp Direction Cd:	North
Notice of Inten ID:	RE03506	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	19-Jun-2009	Range Fraction No:	
Well Depth:	20.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	28-Sep-2009	St Plane Y-Coord:	1032291
Record Creation Dt:	08-Oct-2009	NAD83 Latitude:	48.12489
Last Update Date:	08-Oct-2009	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:	073001-34000		
Well Owner Name:	Port Angeles Landfill | Watts - Korsmo		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			

Wells and Additional Sources Detail Report

Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	476718	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00476718.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1827	Twsp Direction Cd:	North
Notice of Inten ID:	S012802	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	26-Mar-2003	Range Fraction No:	
Well Depth:	35.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	25-Apr-2007	St Plane Y-Coord:	1032291
Record Creation Dt:	04-May-2007	NAD83 Latitude:	48.12489
Last Update Date:	04-May-2007	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	CITY OF PORT ANGELES		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	476716	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00476716.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1827	Twsp Direction Cd:	North
Notice of Inten ID:	S012802	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	26-Mar-2003	Range Fraction No:	
Well Depth:	35.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059

Well Log Receiv Dt:	25-Apr-2007	St Plane Y-Coord:	1032291
Record Creation Dt:	04-May-2007	NAD83 Latitude:	48.12489
Last Update Date:	04-May-2007	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	CITY OF PORT ANGELES		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	359186	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00359186.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1827	Twsp Direction Cd:	North
Notice of Inten ID:	S012802	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	26-Mar-2003	Range Fraction No:	
Well Depth:	35.0	Section:	01
Well Diameter:	6.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	03-Apr-2003	St Plane Y-Coord:	1032291
Record Creation Dt:	06-May-2003	NAD83 Latitude:	48.12489
Last Update Date:	06-May-2003	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	CITY OF PORT ANGELES		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	476704	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00476704.pdf	County Name:	

Wells and Additional Sources Detail Report

Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1827	Twsp Direction Cd:	North
Notice of Inten ID:	S012802	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	26-Mar-2003	Range Fraction No:	
Well Depth:	35.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	25-Apr-2007	St Plane Y-Coord:	1032291
Record Creation Dt:	04-May-2007	NAD83 Latitude:	48.12489
Last Update Date:	04-May-2007	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	CITY OF PORT ANGELES		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	476710	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00476710.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1827	Twsp Direction Cd:	North
Notice of Inten ID:	S012802	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	26-Mar-2003	Range Fraction No:	
Well Depth:	35.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	25-Apr-2007	St Plane Y-Coord:	1032291
Record Creation Dt:	04-May-2007	NAD83 Latitude:	48.12489
Last Update Date:	04-May-2007	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	CITY OF PORT ANGELES		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		

Well Log Flw Type Cd:
Well Log Well Tst Cd:
Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	476708	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00476708.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1827	Twsp Direction Cd:	North
Notice of Inten ID:	S012802	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	26-Mar-2003	Range Fraction No:	
Well Depth:	35.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	25-Apr-2007	St Plane Y-Coord:	1032291
Record Creation Dt:	04-May-2007	NAD83 Latitude:	48.12489
Last Update Date:	04-May-2007	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	CITY OF PORT ANGELES		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	655285	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00655285.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2684	Twsp Direction Cd:	North
Notice of Inten ID:	SE06545	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	01-Apr-2010	Range Fraction No:	
Well Depth:	20.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW

Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	22-Apr-2010	St Plane Y-Coord:	1032291
Record Creation Dt:	18-Jun-2010	NAD83 Latitude:	48.12489
Last Update Date:	18-Jun-2010	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	City of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	528467	Region Code:	4
Well Tag ID:	AHC489	County ID:	9
Well Log Image Nm:	00528467.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1979	Twsp Direction Cd:	North
Notice of Inten ID:	A102613	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	04-Jan-2008	Range Fraction No:	
Well Depth:	0.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	10-Jun-2008	St Plane Y-Coord:	1032291
Record Creation Dt:	10-Jun-2008	NAD83 Latitude:	48.12489
Last Update Date:	10-Jun-2008	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:	073001-340000		
Well Owner Name:	WATTS - KORSMO		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	537790	Region Code:	4

Wells and Additional Sources Detail Report

Well Tag ID:	AHC489	County ID:	9
Well Log Image Nm:	00537790.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1609	Twsp Direction Cd:	North
Notice of Inten ID:	AE03588	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	19-Jul-2008	Range Fraction No:	
Well Depth:	0.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	23-Jul-2008	St Plane Y-Coord:	1032291
Record Creation Dt:	01-Aug-2008	NAD83 Latitude:	48.12489
Last Update Date:	01-Aug-2008	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	655286	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00655286.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2684	Twsp Direction Cd:	North
Notice of Inten ID:	SE06545	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	01-Apr-2010	Range Fraction No:	
Well Depth:	30.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	22-Apr-2010	St Plane Y-Coord:	1032291
Record Creation Dt:	18-Jun-2010	NAD83 Latitude:	48.12489
Last Update Date:	18-Jun-2010	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	City of Port Angeles		
Well Log Static Lvl Qt:	0.0		

Well Log GPM Qt: 0.0
Well Log PSI No: 0.0
Well Log Flw Type Cd:
Well Log Well Tst Cd:
Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID: 476714
Well Tag ID:
Well Log Image Nm: 00476714.pdf
Project Tag No:
WRIA No: 18
Driller No: 1827
Notice of Inten ID: S012802
Well Type Code: S
Well Completion Dt: 26-Mar-2003
Well Depth: 35.0
Well Diameter: 0.0
Horz Coll Ds:
Horiz Coll Meth Cd: 0
Well Log Receiv Dt: 25-Apr-2007
Record Creation Dt: 04-May-2007
Last Update Date: 04-May-2007
Tax Parcel Identifier:
Well Owner Name: CITY OF PORT ANGELES
Well Log Static Lvl Qt: 0.0
Well Log GPM Qt: 0.0
Well Log PSI No: 0.0
Well Log Flw Type Cd:
Well Log Well Tst Cd:
Well Log ZIP Code:

Region Code: 4
County ID: 9
County Name:
Township: 30
Twsp Fraction No:
Twsp Direction Cd: North
Range: 07
Range Dir Code: West
Range Fraction No:
Section: 01
Quarter Section: NW
Qtr Qtr Section: SW
St Plane X-Coord: 902059
St Plane Y-Coord: 1032291
NAD83 Latitude: 48.12489
NAD83 Longitude: -123.52296

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID: 655288
Well Tag ID:
Well Log Image Nm: 00655288.pdf
Project Tag No:
WRIA No: 18
Driller No: 2684
Notice of Inten ID: AE08486
Well Type Code: Decommisioning
Well Completion Dt: 01-Apr-2010

Region Code: 4
County ID: 9
County Name:
Township: 30
Twsp Fraction No:
Twsp Direction Cd: North
Range: 07
Range Dir Code: West
Range Fraction No:

Well Depth:	10.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	22-Apr-2010	St Plane Y-Coord:	1032291
Record Creation Dt:	18-Jun-2010	NAD83 Latitude:	48.12489
Last Update Date:	18-Jun-2010	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	City of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	655290	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00655290.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2684	Twsp Direction Cd:	North
Notice of Inten ID:	AE08486	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	01-Apr-2010	Range Fraction No:	
Well Depth:	20.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	22-Apr-2010	St Plane Y-Coord:	1032291
Record Creation Dt:	18-Jun-2010	NAD83 Latitude:	48.12489
Last Update Date:	18-Jun-2010	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	City of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	360179	Region Code:	4
Well Tag ID:	AHC489	County ID:	9
Well Log Image Nm:	00360179.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1827	Twsp Direction Cd:	North
Notice of Inten ID:	R054077	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	20-Mar-2003	Range Fraction No:	
Well Depth:	30.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	03-Apr-2003	St Plane Y-Coord:	1032291
Record Creation Dt:	15-May-2003	NAD83 Latitude:	48.12489
Last Update Date:	15-May-2003	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			
Well Owner Name:	CITY OF PORT ANGELES		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NNW	0.71	3,770.27	220.50	WATER WELLS

Well Log ID:	537788	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00537788.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	1609	Twsp Direction Cd:	North
Notice of Inten ID:	AE03586	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	19-Jul-2008	Range Fraction No:	
Well Depth:	0.0	Section:	01
Well Diameter:	0.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	902059
Well Log Receiv Dt:	23-Jul-2008	St Plane Y-Coord:	1032291
Record Creation Dt:	01-Aug-2008	NAD83 Latitude:	48.12489
Last Update Date:	01-Aug-2008	NAD83 Longitude:	-123.52296
Tax Parcel Identifier:			

Wells and Additional Sources Detail Report

Well Owner Name:	City of Port Angeles
Well Log Static Lvl Qt:	0.0
Well Log GPM Qt:	0.0
Well Log PSI No:	0.0
Well Log Flw Type Cd:	
Well Log Well Tst Cd:	
Well Log ZIP Code:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	SSW	0.73	3,849.44	440.88	WATER WELLS

Well Log ID:	937049	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	937049.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2997	Twsp Direction Cd:	North
Notice of Inten ID:	AE28727	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	28-Aug-2014	Range Fraction No:	
Well Depth:	150.0	Section:	12
Well Diameter:	6.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	23-Sep-2014	St Plane Y-Coord:	1024259
Record Creation Dt:	04-Dec-2014	NAD83 Latitude:	48.10286
Last Update Date:	04-Dec-2014	NAD83 Longitude:	-123.52286
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	SSW	0.73	3,849.44	440.88	WATER WELLS

Well Log ID:	936113	Region Code:	4
Well Tag ID:	BIE474	County ID:	9
Well Log Image Nm:	936113.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2997	Twsp Direction Cd:	North
Notice of Inten ID:	RE10296	Range:	07

Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	26-Aug-2014	Range Fraction No:	
Well Depth:	129.0	Section:	12
Well Diameter:	6.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	28-Sep-2014	St Plane Y-Coord:	1024259
Record Creation Dt:	01-Dec-2014	NAD83 Latitude:	48.10286
Last Update Date:	01-Dec-2014	NAD83 Longitude:	-123.52286
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	SSW	0.73	3,849.44	440.88	WATER WELLS

Well Log ID:	936127	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	936127.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2997	Twsp Direction Cd:	North
Notice of Inten ID:	SE52635	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	28-Aug-2014	Range Fraction No:	
Well Depth:	150.0	Section:	12
Well Diameter:	6.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	28-Sep-2014	St Plane Y-Coord:	1024259
Record Creation Dt:	01-Dec-2014	NAD83 Latitude:	48.10286
Last Update Date:	01-Dec-2014	NAD83 Longitude:	-123.52286
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	SSW	0.73	3,849.44	440.88	WATER WELLS

Well Log ID:	939802	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	939802.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0	Twsp Direction Cd:	North
Notice of Inten ID:	AE29412	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	02-Oct-2014	Range Fraction No:	
Well Depth:	150.0	Section:	12
Well Diameter:	8.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	10-Nov-2014	St Plane Y-Coord:	1024259
Record Creation Dt:	15-Dec-2014	NAD83 Latitude:	48.10286
Last Update Date:	15-Dec-2014	NAD83 Longitude:	-123.52286
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	SSW	0.73	3,849.44	440.88	WATER WELLS

Well Log ID:	936126	Region Code:	4
Well Tag ID:	BIE475	County ID:	9
Well Log Image Nm:	936126.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2997	Twsp Direction Cd:	North
Notice of Inten ID:	RE10296	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	27-Aug-2014	Range Fraction No:	
Well Depth:	90.0	Section:	12
Well Diameter:	6.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	901776
Well Log Receiv Dt:	28-Sep-2014	St Plane Y-Coord:	1024259
Record Creation Dt:	01-Dec-2014	NAD83 Latitude:	48.10286

Last Update Date:	01-Dec-2014	NAD83 Longitude:	-123.52286
Tax Parcel Identifier:			
Well Owner Name:	Interfor US Inc		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
31	SE	0.74	3,893.71	397.35	WATER WELLS

Well Log ID:	57638	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00057638.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0473	Twsp Direction Cd:	North
Notice of Inten ID:		Range:	06
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	06-Jul-1978	Range Fraction No:	
Well Depth:	319.0	Section:	07
Well Diameter:	6.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	#
Horiz Coll Meth Cd:	0	St Plane X-Coord:	907402
Well Log Receiv Dt:	17-Aug-1978	St Plane Y-Coord:	1024795
Record Creation Dt:		NAD83 Latitude:	0.0
Last Update Date:		NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	EDGAR RYGAARD		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	SSE	0.76	3,988.71	427.73	WATER WELLS

Well Log ID:	321610	Region Code:	4
Well Tag ID:	AGC570	County ID:	9
Well Log Image Nm:	00321610.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	

Wells and Additional Sources Detail Report

Driller No:	2374	Twsp Direction Cd:	North
Notice of Inten ID:	W157549	Range:	06
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	18-Sep-2001	Range Fraction No:	
Well Depth:	265.0	Section:	07
Well Diameter:	6.0	Quarter Section:	SW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906729
Well Log Receiv Dt:	08-Nov-2001	St Plane Y-Coord:	1024124
Record Creation Dt:	25-Feb-2002	NAD83 Latitude:	48.10301
Last Update Date:	25-Feb-2002	NAD83 Longitude:	-123.50258
Tax Parcel Identifier:	063007420200		
Well Owner Name:	DAN CALLAHAN		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
36	WNW	0.86	4,552.67	289.08	WATER WELLS

Well Log ID:	57729	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00057729.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0868	Twsp Direction Cd:	North
Notice of Inten ID:	W041778	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	05-Aug-1993	Range Fraction No:	
Well Depth:	179.0	Section:	02
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	899272
Well Log Receiv Dt:		St Plane Y-Coord:	1029668
Record Creation Dt:		NAD83 Latitude:	48.11741
Last Update Date:		NAD83 Longitude:	-123.53394
Tax Parcel Identifier:			
Well Owner Name:	FELL TERRY		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			

Wells and Additional Sources Detail Report

Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
36	WNW	0.86	4,552.67	289.08	WATER WELLS

Well Log ID:	410077	Region Code:	4
Well Tag ID:	AKK918	County ID:	9
Well Log Image Nm:	00410077.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0868	Twsp Direction Cd:	North
Notice of Inten ID:	W190827	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	03-Jun-2005	Range Fraction No:	
Well Depth:	220.0	Section:	02
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	899272
Well Log Receiv Dt:	15-Jun-2005	St Plane Y-Coord:	1029668
Record Creation Dt:	23-Jun-2005	NAD83 Latitude:	48.11741
Last Update Date:	23-Jun-2005	NAD83 Longitude:	-123.53394
Tax Parcel Identifier:			
Well Owner Name:	CHARLES HARTMAN		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.88	4,631.73	261.06	WATER WELLS

Well Log ID:	2278510	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	805744.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3201	Twsp Direction Cd:	North
Notice of Inten ID:	SE86643	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	04-Oct-2023	Range Fraction No:	
Well Depth:	20.0	Section:	01
Well Diameter:	7.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908565

Well Log Receiv Dt:	08-May-2024	St Plane Y-Coord:	1031217
Record Creation Dt:	13-May-2024	NAD83 Latitude:	0.0
Last Update Date:	13-May-2024	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	PRIVATE		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.88	4,631.73	261.06	WATER WELLS

Well Log ID:	2278513	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	805745.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3201	Twsp Direction Cd:	North
Notice of Inten ID:	AE79609	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	04-Oct-2023	Range Fraction No:	
Well Depth:	20.0	Section:	01
Well Diameter:	7.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908565
Well Log Receiv Dt:	08-May-2024	St Plane Y-Coord:	1031217
Record Creation Dt:	13-May-2024	NAD83 Latitude:	0.0
Last Update Date:	13-May-2024	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	PRIVATE		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.88	4,631.73	261.06	WATER WELLS

Well Log ID:	2278516	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	805745.pdf	County Name:	

Project Tag No:		Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3201	Twsp Direction Cd:	North
Notice of Inten ID:	AE79609	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	04-Oct-2023	Range Fraction No:	
Well Depth:	20.0	Section:	01
Well Diameter:	7.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908565
Well Log Receiv Dt:	08-May-2024	St Plane Y-Coord:	1031217
Record Creation Dt:	13-May-2024	NAD83 Latitude:	0.0
Last Update Date:	13-May-2024	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	PRIVATE		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.88	4,631.73	261.06	WATER WELLS

Well Log ID:	2278514	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	805745.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3201	Twsp Direction Cd:	North
Notice of Inten ID:	AE79609	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	04-Oct-2023	Range Fraction No:	
Well Depth:	20.0	Section:	01
Well Diameter:	7.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908565
Well Log Receiv Dt:	08-May-2024	St Plane Y-Coord:	1031217
Record Creation Dt:	13-May-2024	NAD83 Latitude:	0.0
Last Update Date:	13-May-2024	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	PRIVATE		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		

Well Log Flw Type Cd: Dry Hole
Well Log Well Tst Cd:
Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.88	4,631.73	261.06	WATER WELLS

Well Log ID:	2278509	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	805744.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3201	Twsp Direction Cd:	North
Notice of Inten ID:	SE86643	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	04-Oct-2023	Range Fraction No:	
Well Depth:	20.0	Section:	01
Well Diameter:	7.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908565
Well Log Receiv Dt:	08-May-2024	St Plane Y-Coord:	1031217
Record Creation Dt:	13-May-2024	NAD83 Latitude:	0.0
Last Update Date:	13-May-2024	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	PRIVATE		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.88	4,631.73	261.06	WATER WELLS

Well Log ID:	2278512	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	805744.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3201	Twsp Direction Cd:	North
Notice of Inten ID:	SE86643	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	04-Oct-2023	Range Fraction No:	
Well Depth:	20.0	Section:	01
Well Diameter:	7.0	Quarter Section:	NW

Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908565
Well Log Receiv Dt:	08-May-2024	St Plane Y-Coord:	1031217
Record Creation Dt:	13-May-2024	NAD83 Latitude:	0.0
Last Update Date:	13-May-2024	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	PRIVATE		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.88	4,631.73	261.06	WATER WELLS

Well Log ID:	2278515	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	805745.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3201	Twsp Direction Cd:	North
Notice of Inten ID:	AE79609	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	04-Oct-2023	Range Fraction No:	
Well Depth:	20.0	Section:	01
Well Diameter:	7.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908565
Well Log Receiv Dt:	08-May-2024	St Plane Y-Coord:	1031217
Record Creation Dt:	13-May-2024	NAD83 Latitude:	0.0
Last Update Date:	13-May-2024	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	PRIVATE		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.88	4,631.73	261.06	WATER WELLS

Well Log ID:	2278511	Region Code:	4

Wells and Additional Sources Detail Report

Well Tag ID:		County ID:	9
Well Log Image Nm:	805744.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	0	Twsp Fraction No:	
Driller No:	3201	Twsp Direction Cd:	North
Notice of Inten ID:	SE86643	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	04-Oct-2023	Range Fraction No:	
Well Depth:	20.0	Section:	01
Well Diameter:	7.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	908565
Well Log Receiv Dt:	08-May-2024	St Plane Y-Coord:	1031217
Record Creation Dt:	13-May-2024	NAD83 Latitude:	0.0
Last Update Date:	13-May-2024	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	PRIVATE		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID:	649882	Region Code:	4
Well Tag ID:	BBK544	County ID:	9
Well Log Image Nm:	00649882.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2823	Twsp Direction Cd:	North
Notice of Inten ID:	RE03255	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	09-May-2009	Range Fraction No:	
Well Depth:	15.0	Section:	02
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900730
Well Log Receiv Dt:	07-May-2010	St Plane Y-Coord:	1032309
Record Creation Dt:	28-May-2010	NAD83 Latitude:	48.1248
Last Update Date:	28-May-2010	NAD83 Longitude:	-123.52839
Tax Parcel Identifier:			
Well Owner Name:	Lower Elwha Klallam Tribe		
Well Log Static Lvl Qt:	0.0		

Well Log GPM Qt: 0.0
Well Log PSI No: 0.0
Well Log Flw Type Cd:
Well Log Well Tst Cd:
Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID: 649847
Well Tag ID:
Well Log Image Nm: 00649847.pdf
Project Tag No:
WRIA No: 18
Driller No: 2823
Notice of Inten ID: SE04279
Well Type Code: S
Well Completion Dt: 09-May-2009
Well Depth: 51.5
Well Diameter: 0.0
Horz Coll Ds:
Horiz Coll Meth Cd: 0
Well Log Receiv Dt: 07-May-2010
Record Creation Dt: 28-May-2010
Last Update Date: 28-May-2010
Tax Parcel Identifier:
Well Owner Name: Lower Elwha Klallam Tribe
Well Log Static Lvl Qt: 0.0
Well Log GPM Qt: 0.0
Well Log PSI No: 0.0
Well Log Flw Type Cd:
Well Log Well Tst Cd:
Well Log ZIP Code:

Region Code: 4
County ID: 9
County Name:
Township: 30
Twsp Fraction No:
Twsp Direction Cd: North
Range: 07
Range Dir Code: West
Range Fraction No:
Section: 02
Quarter Section: NE
Qtr Qtr Section: SE
St Plane X-Coord: 900730
St Plane Y-Coord: 1032309
NAD83 Latitude: 48.1248
NAD83 Longitude: -123.52839

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID: 57664
Well Tag ID:
Well Log Image Nm: 00057664.pdf
Project Tag No:
WRIA No: 18
Driller No: 0868
Notice of Inten ID: W033222
Well Type Code: Water
Well Completion Dt: 20-Aug-1993

Region Code: 4
County ID: 9
County Name:
Township: 30
Twsp Fraction No:
Twsp Direction Cd: North
Range: 07
Range Dir Code: West
Range Fraction No:

Well Depth:	206.0	Section:	02
Well Diameter:	6.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900730
Well Log Receiv Dt:		St Plane Y-Coord:	1032309
Record Creation Dt:		NAD83 Latitude:	48.1248
Last Update Date:		NAD83 Longitude:	-123.52839
Tax Parcel Identifier:			
Well Owner Name:	ELLISON JENNIFER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID:	776732	Region Code:	4
Well Tag ID:	BBK543	County ID:	9
Well Log Image Nm:	00776732.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2671	Twsp Direction Cd:	North
Notice of Inten ID:	AE14560	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	06-Sep-2011	Range Fraction No:	
Well Depth:	15.0	Section:	02
Well Diameter:	0.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900730
Well Log Receiv Dt:	18-Oct-2011	St Plane Y-Coord:	1032309
Record Creation Dt:	23-Feb-2012	NAD83 Latitude:	48.1248
Last Update Date:	23-Feb-2012	NAD83 Longitude:	-123.52839
Tax Parcel Identifier:			
Well Owner Name:	Lower Elwha Klallam Tribe		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID:	649888	Region Code:	4
Well Tag ID:	BBK541	County ID:	9
Well Log Image Nm:	00649888.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2823	Twsp Direction Cd:	North
Notice of Inten ID:	RE03255	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	07-Apr-2009	Range Fraction No:	
Well Depth:	25.0	Section:	02
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900730
Well Log Receiv Dt:	07-May-2010	St Plane Y-Coord:	1032309
Record Creation Dt:	28-May-2010	NAD83 Latitude:	48.1248
Last Update Date:	28-May-2010	NAD83 Longitude:	-123.52839
Tax Parcel Identifier:			
Well Owner Name:	Lower Elwha Klallam Tribe		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID:	649840	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00649840.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2823	Twsp Direction Cd:	North
Notice of Inten ID:	SE04279	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	10-May-2009	Range Fraction No:	
Well Depth:	16.5	Section:	02
Well Diameter:	0.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900730
Well Log Receiv Dt:	07-May-2010	St Plane Y-Coord:	1032309
Record Creation Dt:	28-May-2010	NAD83 Latitude:	48.1248
Last Update Date:	28-May-2010	NAD83 Longitude:	-123.52839
Tax Parcel Identifier:			

Wells and Additional Sources Detail Report

Well Owner Name:	Lower Elwha Klallam Tribe
Well Log Static Lvl Qt:	0.0
Well Log GPM Qt:	0.0
Well Log PSI No:	0.0
Well Log Flw Type Cd:	
Well Log Well Tst Cd:	
Well Log ZIP Code:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID:	776638	Region Code:	4
Well Tag ID:	BBK544	County ID:	9
Well Log Image Nm:	00776638.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2671	Twsp Direction Cd:	North
Notice of Inten ID:	AE14560	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	06-Sep-2011	Range Fraction No:	
Well Depth:	15.0	Section:	02
Well Diameter:	0.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900730
Well Log Receiv Dt:	18-Oct-2011	St Plane Y-Coord:	1032309
Record Creation Dt:	23-Feb-2012	NAD83 Latitude:	48.1248
Last Update Date:	23-Feb-2012	NAD83 Longitude:	-123.52839
Tax Parcel Identifier:			
Well Owner Name:	Lower Elwha Klallam Tribe		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID:	649886	Region Code:	4
Well Tag ID:	BBK542	County ID:	9
Well Log Image Nm:	00649886.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2823	Twsp Direction Cd:	North
Notice of Inten ID:	RE03255	Range:	07

Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	08-Apr-2009	Range Fraction No:	
Well Depth:	32.0	Section:	02
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900730
Well Log Receiv Dt:	07-May-2010	St Plane Y-Coord:	1032309
Record Creation Dt:	28-May-2010	NAD83 Latitude:	48.1248
Last Update Date:	28-May-2010	NAD83 Longitude:	-123.52839
Tax Parcel Identifier:			
Well Owner Name:	Lower Elwha Klallam Tribe		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID:	649884	Region Code:	4
Well Tag ID:	BBK543	County ID:	9
Well Log Image Nm:	00649884.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2823	Twsp Direction Cd:	North
Notice of Inten ID:	RE03255	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	09-May-2009	Range Fraction No:	
Well Depth:	15.0	Section:	02
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900730
Well Log Receiv Dt:	07-May-2010	St Plane Y-Coord:	1032309
Record Creation Dt:	28-May-2010	NAD83 Latitude:	48.1248
Last Update Date:	28-May-2010	NAD83 Longitude:	-123.52839
Tax Parcel Identifier:			
Well Owner Name:	Lower Elwha Klallam Tribe		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID:	649843	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00649843.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2823	Twsp Direction Cd:	North
Notice of Inten ID:	SE04279	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	09-May-2009	Range Fraction No:	
Well Depth:	16.5	Section:	02
Well Diameter:	0.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900730
Well Log Receiv Dt:	07-May-2010	St Plane Y-Coord:	1032309
Record Creation Dt:	28-May-2010	NAD83 Latitude:	48.1248
Last Update Date:	28-May-2010	NAD83 Longitude:	-123.52839
Tax Parcel Identifier:			
Well Owner Name:	Lower Elwha Klallam Tribe		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID:	649841	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00649841.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2823	Twsp Direction Cd:	North
Notice of Inten ID:	SE04279	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	09-May-2009	Range Fraction No:	
Well Depth:	16.5	Section:	02
Well Diameter:	0.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900730
Well Log Receiv Dt:	07-May-2010	St Plane Y-Coord:	1032309
Record Creation Dt:	28-May-2010	NAD83 Latitude:	48.1248

Last Update Date:	28-May-2010	NAD83 Longitude:	-123.52839
Tax Parcel Identifier:			
Well Owner Name:	Lower Elwha Klallam Tribe		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	NW	0.86	4,543.69	213.43	WATER WELLS

Well Log ID:	649845	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00649845.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2823	Twsp Direction Cd:	North
Notice of Inten ID:	SE04279	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	09-May-2009	Range Fraction No:	
Well Depth:	16.5	Section:	02
Well Diameter:	0.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	900730
Well Log Receiv Dt:	07-May-2010	St Plane Y-Coord:	1032309
Record Creation Dt:	28-May-2010	NAD83 Latitude:	48.1248
Last Update Date:	28-May-2010	NAD83 Longitude:	-123.52839
Tax Parcel Identifier:			
Well Owner Name:	Lower Elwha Klallam Tribe		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204059	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	793330.pdf	County Name:	
Project Tag No:	B-3	Township:	30
WRIA No:	18	Twsp Fraction No:	

Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	SE84192	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	
Well Depth:	23.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2211057	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	795161.pdf	County Name:	
Project Tag No:	B2	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3152	Twsp Direction Cd:	North
Notice of Inten ID:	AE76853	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	24-Feb-2023	Range Fraction No:	
Well Depth:	10.0	Section:	07
Well Diameter:	2.25	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	06-Mar-2023	St Plane Y-Coord:	1026755
Record Creation Dt:	08-Mar-2023	NAD83 Latitude:	0.0
Last Update Date:	08-Mar-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:	063007528010		
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			

Well Log ZIP Code: 98363

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2211056	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	795161.pdf	County Name:	
Project Tag No:	B1	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3152	Twsp Direction Cd:	North
Notice of Inten ID:	AE76853	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	24-Feb-2023	Range Fraction No:	
Well Depth:	10.0	Section:	07
Well Diameter:	2.25	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	06-Mar-2023	St Plane Y-Coord:	1026755
Record Creation Dt:	08-Mar-2023	NAD83 Latitude:	0.0
Last Update Date:	08-Mar-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:	063007528010		
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	113.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Static Level		
Well Log Well Tst Cd:			
Well Log ZIP Code:	98363		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2211058	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	795161.pdf	County Name:	
Project Tag No:	B3	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3152	Twsp Direction Cd:	North
Notice of Inten ID:	AE76853	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	24-Feb-2023	Range Fraction No:	
Well Depth:	10.0	Section:	07
Well Diameter:	2.25	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447

Well Log Receiv Dt:	06-Mar-2023	St Plane Y-Coord:	1026755
Record Creation Dt:	08-Mar-2023	NAD83 Latitude:	0.0
Last Update Date:	08-Mar-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:	063007528010		
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	96.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Static Level		
Well Log Well Tst Cd:			
Well Log ZIP Code:	98363		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204123	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	793327.pdf	County Name:	
Project Tag No:	B-1	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	AE76001	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	
Well Depth:	21.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204033	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	793326.pdf	County Name:	

Wells and Additional Sources Detail Report

Project Tag No:	B-1	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	SE84192	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	
Well Depth:	21.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204058	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	793329.pdf	County Name:	
Project Tag No:	B-2	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	AE76001	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	
Well Depth:	15.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		

Well Log Flw Type Cd:	Dry Hole
Well Log Well Tst Cd:	
Well Log ZIP Code:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2211055	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	795160.pdf	County Name:	
Project Tag No:	B3	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3152	Twsp Direction Cd:	North
Notice of Inten ID:	SE84781	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	24-Feb-2023	Range Fraction No:	
Well Depth:	10.0	Section:	07
Well Diameter:	2.25	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	06-Mar-2023	St Plane Y-Coord:	1026755
Record Creation Dt:	08-Mar-2023	NAD83 Latitude:	0.0
Last Update Date:	08-Mar-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:	063007528010		
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	96.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Static Level		
Well Log Well Tst Cd:			
Well Log ZIP Code:	98363		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204060	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	793330.pdf	County Name:	
Project Tag No:	B-4	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	SE84192	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	
Well Depth:	23.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE

Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2211054	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	795160.pdf	County Name:	
Project Tag No:	B2	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3152	Twsp Direction Cd:	North
Notice of Inten ID:	SE84781	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	24-Feb-2023	Range Fraction No:	
Well Depth:	10.0	Section:	07
Well Diameter:	2.25	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	06-Mar-2023	St Plane Y-Coord:	1026755
Record Creation Dt:	08-Mar-2023	NAD83 Latitude:	0.0
Last Update Date:	08-Mar-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:	063007528010		
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:	98363		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204169	Region Code:	4

Wells and Additional Sources Detail Report

Well Tag ID:		County ID:	9
Well Log Image Nm:	793334.pdf	County Name:	
Project Tag No:	B-6	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	SE84192	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	
Well Depth:	18.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2211053	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	795160.pdf	County Name:	
Project Tag No:	B1	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3152	Twsp Direction Cd:	North
Notice of Inten ID:	SE84781	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	24-Feb-2023	Range Fraction No:	
Well Depth:	10.0	Section:	07
Well Diameter:	2.25	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	06-Mar-2023	St Plane Y-Coord:	1026755
Record Creation Dt:	08-Mar-2023	NAD83 Latitude:	0.0
Last Update Date:	08-Mar-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:	063007528010		
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	113.0		

Well Log GPM Qt:	0.0
Well Log PSI No:	0.0
Well Log Flw Type Cd:	Static Level
Well Log Well Tst Cd:	
Well Log ZIP Code:	98363

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204064	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	793333.pdf	County Name:	
Project Tag No:	B-5	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	AE76001	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	
Well Depth:	20.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204057	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	793328.pdf	County Name:	
Project Tag No:	B-2	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	SE84192	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	

Well Depth:	15.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204061	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	793331.pdf	County Name:	
Project Tag No:	B-3	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	AE76001	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	
Well Depth:	23.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204143	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	793335.pdf	County Name:	
Project Tag No:	B-6	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	AE76001	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	
Well Depth:	18.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204062	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	793331.pdf	County Name:	
Project Tag No:	B-4	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	AE76001	Range:	06
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	
Well Depth:	23.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			

Wells and Additional Sources Detail Report

Well Owner Name:	Matthews
Well Log Static Lvl Qt:	0.0
Well Log GPM Qt:	0.0
Well Log PSI No:	0.0
Well Log Flw Type Cd:	Dry Hole
Well Log Well Tst Cd:	
Well Log ZIP Code:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.93	4,905.63	330.71	WATER WELLS

Well Log ID:	2204063	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	793332.pdf	County Name:	
Project Tag No:	B-5	Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	3264	Twsp Direction Cd:	North
Notice of Inten ID:	SE84192	Range:	06
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	15-Dec-2022	Range Fraction No:	
Well Depth:	20.0	Section:	07
Well Diameter:	8.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	SW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909447
Well Log Receiv Dt:	20-Dec-2022	St Plane Y-Coord:	1026755
Record Creation Dt:	03-Jan-2023	NAD83 Latitude:	0.0
Last Update Date:	03-Jan-2023	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	Matthews		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
41	N	0.88	4,669.84	196.77	WATER WELLS

Well Log ID:	948574	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	667714.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2922	Twsp Direction Cd:	North
Notice of Inten ID:	AE30247	Range:	07

Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	22-Jan-2015	Range Fraction No:	
Well Depth:	13.0	Section:	01
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	903422
Well Log Receiv Dt:	26-Jan-2015	St Plane Y-Coord:	1033589
Record Creation Dt:	26-Jan-2015	NAD83 Latitude:	0.0
Last Update Date:	26-Jan-2015	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	City Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
41	N	0.88	4,669.84	196.77	WATER WELLS

Well Log ID:	948565	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	667712.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2922	Twsp Direction Cd:	North
Notice of Inten ID:	AE30247	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	22-Jan-2015	Range Fraction No:	
Well Depth:	16.0	Section:	01
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	903422
Well Log Receiv Dt:	26-Jan-2015	St Plane Y-Coord:	1033589
Record Creation Dt:	26-Jan-2015	NAD83 Latitude:	0.0
Last Update Date:	26-Jan-2015	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	City Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
41	N	0.88	4,669.84	196.77	WATER WELLS

Well Log ID:	948560	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	667711.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2922	Twsp Direction Cd:	North
Notice of Inten ID:	SE53640	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	22-Jan-2015	Range Fraction No:	
Well Depth:	16.0	Section:	01
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	903422
Well Log Receiv Dt:	26-Jan-2015	St Plane Y-Coord:	1033589
Record Creation Dt:	26-Jan-2015	NAD83 Latitude:	0.0
Last Update Date:	26-Jan-2015	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	City Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
41	N	0.88	4,669.84	196.77	WATER WELLS

Well Log ID:	948570	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	667713.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2922	Twsp Direction Cd:	North
Notice of Inten ID:	SE53640	Range:	07
Well Type Code:	S	Range Dir Code:	West
Well Completion Dt:	22-Jan-2015	Range Fraction No:	
Well Depth:	13.0	Section:	01
Well Diameter:	8.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	903422
Well Log Receiv Dt:	26-Jan-2015	St Plane Y-Coord:	1033589
Record Creation Dt:	26-Jan-2015	NAD83 Latitude:	0.0

Last Update Date:	26-Jan-2015	NAD83 Longitude:	0.0
Tax Parcel Identifier:			
Well Owner Name:	City Of Port Angeles		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:	Dry Hole		
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
43	SSE	0.91	4,802.03	512.56	WATER WELLS

Well Log ID:	57698	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00057698.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0868	Twsp Direction Cd:	North
Notice of Inten ID:	063301	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	24-Sep-1992	Range Fraction No:	
Well Depth:	174.0	Section:	13
Well Diameter:	6.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	905690
Well Log Receiv Dt:	20-Nov-1992	St Plane Y-Coord:	1022818
Record Creation Dt:		NAD83 Latitude:	48.09933
Last Update Date:		NAD83 Longitude:	-123.50663
Tax Parcel Identifier:			
Well Owner Name:	ESHELMANN		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	WNW	0.93	4,896.70	273.13	WATER WELLS

Well Log ID:	605660	Region Code:	4
Well Tag ID:	BBN260	County ID:	9
Well Log Image Nm:	00605660.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	

Wells and Additional Sources Detail Report

Driller No:	2934	Twsp Direction Cd:	North
Notice of Inten ID:	W270452	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	28-Aug-2009	Range Fraction No:	
Well Depth:	300.0	Section:	02
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	NW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	899329
Well Log Receiv Dt:	28-Sep-2009	St Plane Y-Coord:	1030997
Record Creation Dt:	08-Oct-2009	NAD83 Latitude:	48.12106
Last Update Date:	08-Oct-2009	NAD83 Longitude:	-123.53392
Tax Parcel Identifier:	073002-4200701		
Well Owner Name:	MARK PALMER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	WNW	0.93	4,896.70	273.13	WATER WELLS

Well Log ID:	58329	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00058329.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0848	Twsp Direction Cd:	North
Notice of Inten ID:		Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	27-Aug-1982	Range Fraction No:	
Well Depth:	166.0	Section:	02
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	NW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	899329
Well Log Receiv Dt:	06-Dec-1982	St Plane Y-Coord:	1030997
Record Creation Dt:		NAD83 Latitude:	48.12106
Last Update Date:		NAD83 Longitude:	-123.53392
Tax Parcel Identifier:			
Well Owner Name:	JIM BENNETT		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			

Wells and Additional Sources Detail Report

Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	WNW	0.93	4,896.70	273.13	WATER WELLS

Well Log ID:	249421	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00249421.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0868	Twsp Direction Cd:	North
Notice of Inten ID:	W041804	Range:	07
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	19-Aug-1993	Range Fraction No:	
Well Depth:	201.0	Section:	02
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	NW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	899329
Well Log Receiv Dt:	15-Mar-2000	St Plane Y-Coord:	1030997
Record Creation Dt:	16-Jan-2001	NAD83 Latitude:	48.12106
Last Update Date:		NAD83 Longitude:	-123.53392
Tax Parcel Identifier:			
Well Owner Name:	BATY DON		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301160	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301160.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	A051783	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072

Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	11-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	11-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301733	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301733.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	R047681	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301745	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301745.pdf	County Name:	

Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	A051783	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	15.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301735	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301735.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	R047681	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		

Well Log Flw Type Cd:
Well Log Well Tst Cd:
Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301737	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301737.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	R047681	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	15.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301156	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301156.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	A051783	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE

Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	11-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	11-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301746	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301746.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	A051783	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	13.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301738	Region Code:	4

Wells and Additional Sources Detail Report

Well Tag ID:		County ID:	9
Well Log Image Nm:	00301738.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	R047681	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	13.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301739	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301739.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	R047681	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	13.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		

Well Log GPM Qt: 0.0
Well Log PSI No: 0.0
Well Log Flw Type Cd:
Well Log Well Tst Cd:
Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID: 301732
Well Tag ID:
Well Log Image Nm: 00301732.pdf
Project Tag No:
WRIA No: 18
Driller No: 2503
Notice of Inten ID: R047681
Well Type Code: Resource Protection
Well Completion Dt: 14-Nov-2000
Well Depth: 5.0
Well Diameter: 2.0
Horz Coll Ds:
Horiz Coll Meth Cd: 0
Well Log Receiv Dt: 01-Feb-2001
Record Creation Dt: 12-Oct-2001
Last Update Date: 12-Oct-2001
Tax Parcel Identifier:
Well Owner Name: WEYERHAEUSER
Well Log Static Lvl Qt: 0.0
Well Log GPM Qt: 0.0
Well Log PSI No: 0.0
Well Log Flw Type Cd:
Well Log Well Tst Cd:
Well Log ZIP Code:

Region Code: 4
County ID: 9
County Name:
Township: 30
Twsp Fraction No:
Twsp Direction Cd: North
Range: 07
Range Dir Code: West
Range Fraction No:
Section: 01
Quarter Section: NE
Qtr Qtr Section: NE
St Plane X-Coord: 906072
St Plane Y-Coord: 1033521
NAD83 Latitude: 48.12868
NAD83 Longitude: -123.50674

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID: 301158
Well Tag ID:
Well Log Image Nm: 00301158.pdf
Project Tag No:
WRIA No: 18
Driller No: 2503
Notice of Inten ID: A051783
Well Type Code: Decommisioning
Well Completion Dt: 14-Nov-2000

Region Code: 4
County ID: 9
County Name:
Township: 30
Twsp Fraction No:
Twsp Direction Cd: North
Range: 07
Range Dir Code: West
Range Fraction No:

Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	11-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	11-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301159	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301159.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	A051783	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	11-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	11-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301749	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301749.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	R047681	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301736	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301736.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	R047681	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	15.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			

Well Owner Name:	WEYERHAEUSER
Well Log Static Lvl Qt:	0.0
Well Log GPM Qt:	0.0
Well Log PSI No:	0.0
Well Log Flw Type Cd:	
Well Log Well Tst Cd:	
Well Log ZIP Code:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301734	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301734.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	R047681	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301157	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301157.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	A051783	Range:	07

Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	11-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	11-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301748	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301748.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	R047681	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301750	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301750.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	R047681	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301747	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301747.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	A051783	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	13.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868

Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301731	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301731.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	R047681	Range:	07
Well Type Code:	Resource Protection	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	12-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	12-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301161	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301161.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	

Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	A051783	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	11-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	11-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301162	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301162.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	A051783	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	15.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	11-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	11-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			

Wells and Additional Sources Detail Report

Well Log ZIP Code:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNE	0.94	4,977.02	180.65	WATER WELLS

Well Log ID:	301155	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00301155.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2503	Twsp Direction Cd:	North
Notice of Inten ID:	A051783	Range:	07
Well Type Code:	Decommisioning	Range Dir Code:	West
Well Completion Dt:	14-Nov-2000	Range Fraction No:	
Well Depth:	5.0	Section:	01
Well Diameter:	2.0	Quarter Section:	NE
Horz Coll Ds:		Qtr Qtr Section:	NE
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906072
Well Log Receiv Dt:	01-Feb-2001	St Plane Y-Coord:	1033521
Record Creation Dt:	11-Oct-2001	NAD83 Latitude:	48.12868
Last Update Date:	11-Oct-2001	NAD83 Longitude:	-123.50674
Tax Parcel Identifier:			
Well Owner Name:	WEYERHAEUSER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
46	ESE	0.99	5,225.02	381.81	WATER WELLS

Well Log ID:	57862	Region Code:	4
Well Tag ID:		County ID:	9
Well Log Image Nm:	00057862.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	0848	Twsp Direction Cd:	North
Notice of Inten ID:	005705	Range:	06
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	25-Mar-1988	Range Fraction No:	
Well Depth:	235.0	Section:	07
Well Diameter:	6.0	Quarter Section:	SE
Horz Coll Ds:		Qtr Qtr Section:	NW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	909407

Well Log Receiv Dt:		St Plane Y-Coord:	1025453
Record Creation Dt:		NAD83 Latitude:	48.10693
Last Update Date:		NAD83 Longitude:	-123.49184
Tax Parcel Identifier:			
Well Owner Name:	GARY MEYERS FRY LUMBER		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	SSE	0.99	5,208.61	483.00	WATER WELLS

Well Log ID:	252772	Region Code:	4
Well Tag ID:	AFA393	County ID:	9
Well Log Image Nm:	00252772.pdf	County Name:	
Project Tag No:		Township:	30
WRIA No:	18	Twsp Fraction No:	
Driller No:	2031	Twsp Direction Cd:	North
Notice of Inten ID:	W110329	Range:	06
Well Type Code:	Water	Range Dir Code:	West
Well Completion Dt:	12-Oct-1999	Range Fraction No:	
Well Depth:	338.0	Section:	18
Well Diameter:	6.0	Quarter Section:	NW
Horz Coll Ds:		Qtr Qtr Section:	NW
Horiz Coll Meth Cd:	0	St Plane X-Coord:	906875
Well Log Receiv Dt:	15-Nov-1999	St Plane Y-Coord:	1022810
Record Creation Dt:	16-Jan-2001	NAD83 Latitude:	48.09943
Last Update Date:		NAD83 Longitude:	-123.50178
Tax Parcel Identifier:			
Well Owner Name:	ART BRADOW		
Well Log Static Lvl Qt:	0.0		
Well Log GPM Qt:	0.0		
Well Log PSI No:	0.0		
Well Log Flw Type Cd:			
Well Log Well Tst Cd:			
Well Log ZIP Code:			

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *CLALLAM* County: **3**

Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L
Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L
Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for *CLALLAM* County

No Measures/Homes:	22
Geometric Mean:	0.1
Arithmetic Mean:	0.3
Median:	0.2
Standard Deviation:	0.4
Maximum:	1.6
% >4 pCi/L:	0
% >20 pCi/L:	0
Notes on Data Table:	TABLE 1. Screening indoor radon data from the EPA/State Residential Radon Survey of Washington conducted during 1991-92. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested.

Appendix

Federal Sources

FEMA National Flood Hazard Layer — **FEMA FLOOD**

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

Indoor Radon Data — **INDOOR RADON**

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data — **PWSV**

This list of drinking water violations and enforcement actions is sourced from the U.S Environmental Protection Agency's (EPA) Enforcement and Compliance History Online (ECHO) system that incorporates Public Water Systems data from EPA's Safe Drinking Water Information System (SDWIS) database, as part of the national download of Safe Drinking Water Act (SDWA) data. SDWIS contains information on public water systems from the Public Water System Supervision (PWSS) Program, including monitoring, enforcement, and violation data related to requirements established by the SWDA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

Radon Zone Level — **RADON ZONE**

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS) — **SDWIS**

This national download of Safe Drinking Water Act (SDWA) data is sourced from the U.S Environmental Protection Agency's (EPA) Enforcement and Compliance History Online (ECHO) system that incorporates Public Water Systems data from EPA's Safe Drinking Water Information System (SDWIS) database. SDWIS contains information on public water systems from the Public Water System Supervision (PWSS) Program related to requirements established by the Safe Drinking Water Act (SDWA). Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

Soil Survey Geographic database — **SSURGO**

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

U.S. Fish & Wildlife Service Wetland Data — **US WETLAND**

The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.

USGS Current Topo — **US TOPO**

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

USGS Geology — **US GEOLOGY**

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System — **FED USGS**

The U.S. Geological Survey's (USGS) National Water Information System (NWIS) is the nation's principal repository of water resources data. The data includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIS database information is obtained through the Water Quality Data Portal (WQP). The WQP

is a cooperative service sponsored by the USGS, the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC).

State Sources

Oil and Gas Wells **OGW**

Oil and gas wells sites made available by the Department of Natural Resources.

Public Water System Source Information **PWS**

The Public Water System Source Information database contains information pertaining to Washington State public water systems. The data provides a listing of all Active Water Systems and Source Information based on the selected water system group and county. This data is provided by Washington State's Department of Health. Public Land Survey System (PLSS) locations provided by the source are subject to accuracy limitations inherent to the PLSS system.

Underground Injection Control Wells **UIC**

The Water Quality Program of the Washington State Department of Ecology (DEC) maintains this water quality permit database that includes Underground Injection Control (UIC) wells. According to the DEC, UIC wells are manmade structures used to discharge fluids into the subsurface. Examples are drywells, infiltration trenches with perforated pipe, and any structure deeper than the widest surface dimension. The majority of UIC wells in Washington are used to manage storm water and sanitary waste, return water to the ground, and help clean up contaminated sites. The potential for groundwater contamination from injection wells depends upon well construction and location; quality of the fluids injected; and the geographic and hydrologic settings in which the injection occurs.

Washington State Well Log Database **WATER WELLS**

The Well Log Database contains the well reports that describe the location, ownership, construction details and lithology of the completed wells in State of Washington. Locations are provided as Public Land Survey System (PLSS) values and accuracy is limited as such. The database is maintained by Washington State, Department of Ecology.

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TOPOGRAPHIC MAPS

	W. Edgewood Dr and S. Critchfield Rd
	Sequim WA None
Project No:	PNR0651RW1/1111A PO#TBD
Requested By:	Geosyntec Consultants
Order No:	24121300691
Date Completed:	December 13, 2024

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

Year	Map Series
2020	7.5
2017	7.5
1985	7.5
1978	7.5
1950	7.5
1959	15
1919	15

Topographic Map Symbology for the maps may be available in the following documents:

Pre-1947

Page 223 of 1918 Topographic Instructions

Page 130 of 1928 Topographic Instructions

1947-2009

Topographic Map Symbols

2009-present

US Topo Map Symbols

Topographic Maps included in this report are produced by the USGS and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property.
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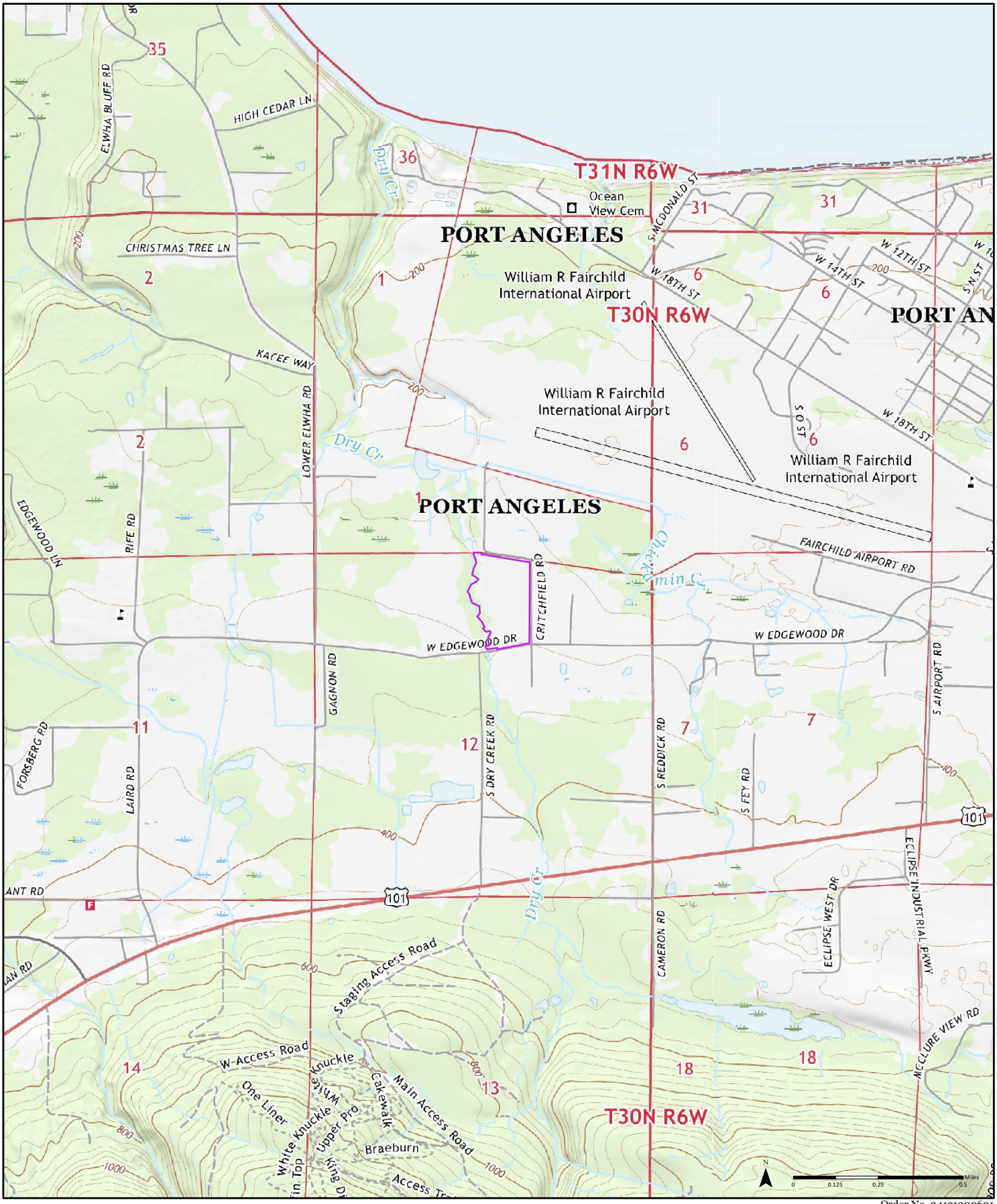
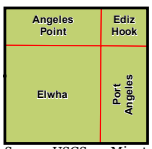


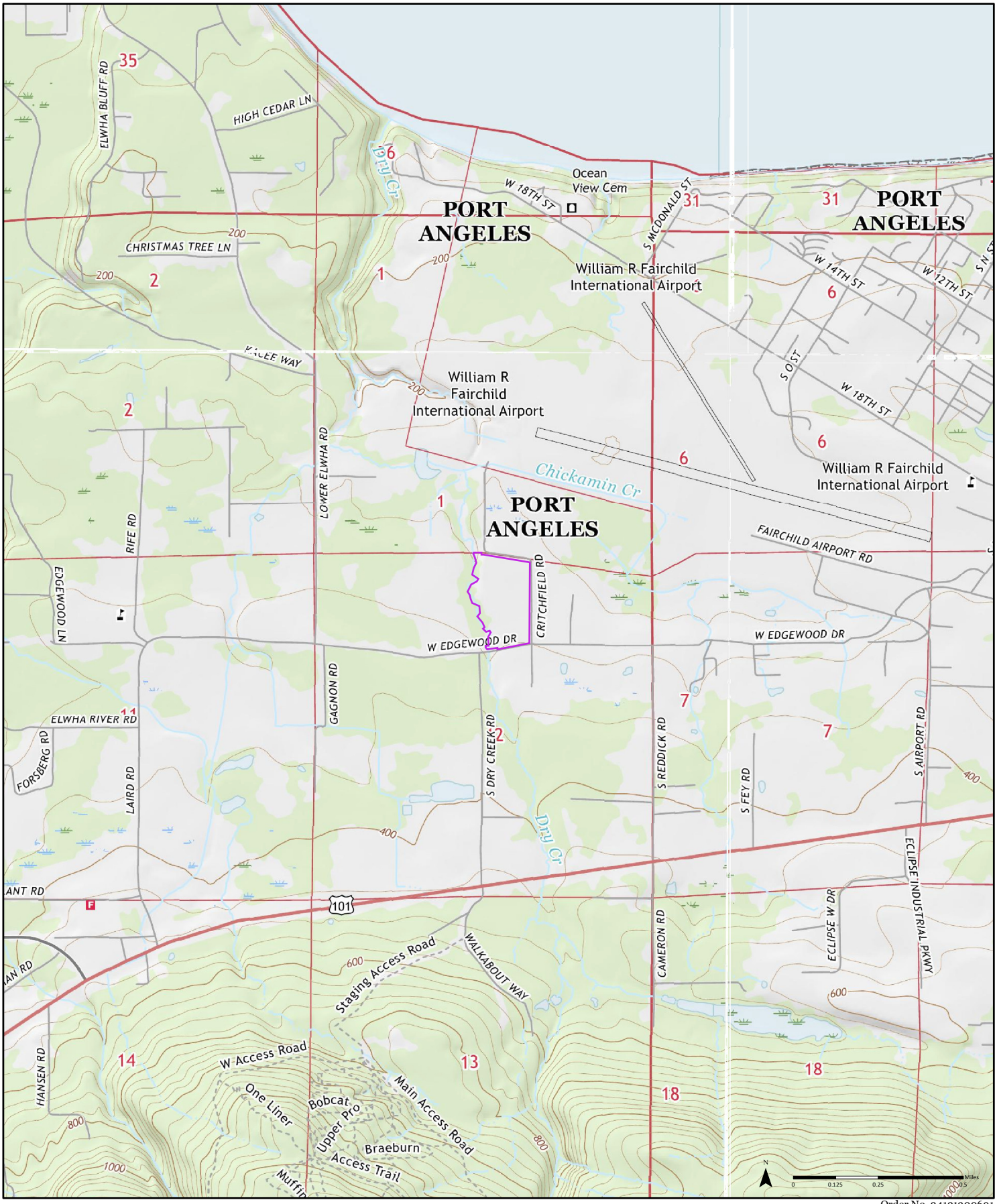
Order No. 24121300691

2020



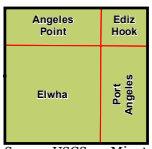
Available Quadrangle(s): Elwha, WA
Ediz Hook, WA
Port Angeles, WA
Angeles Point, WA

Source: USGS 7.5 Minute Topographic Map



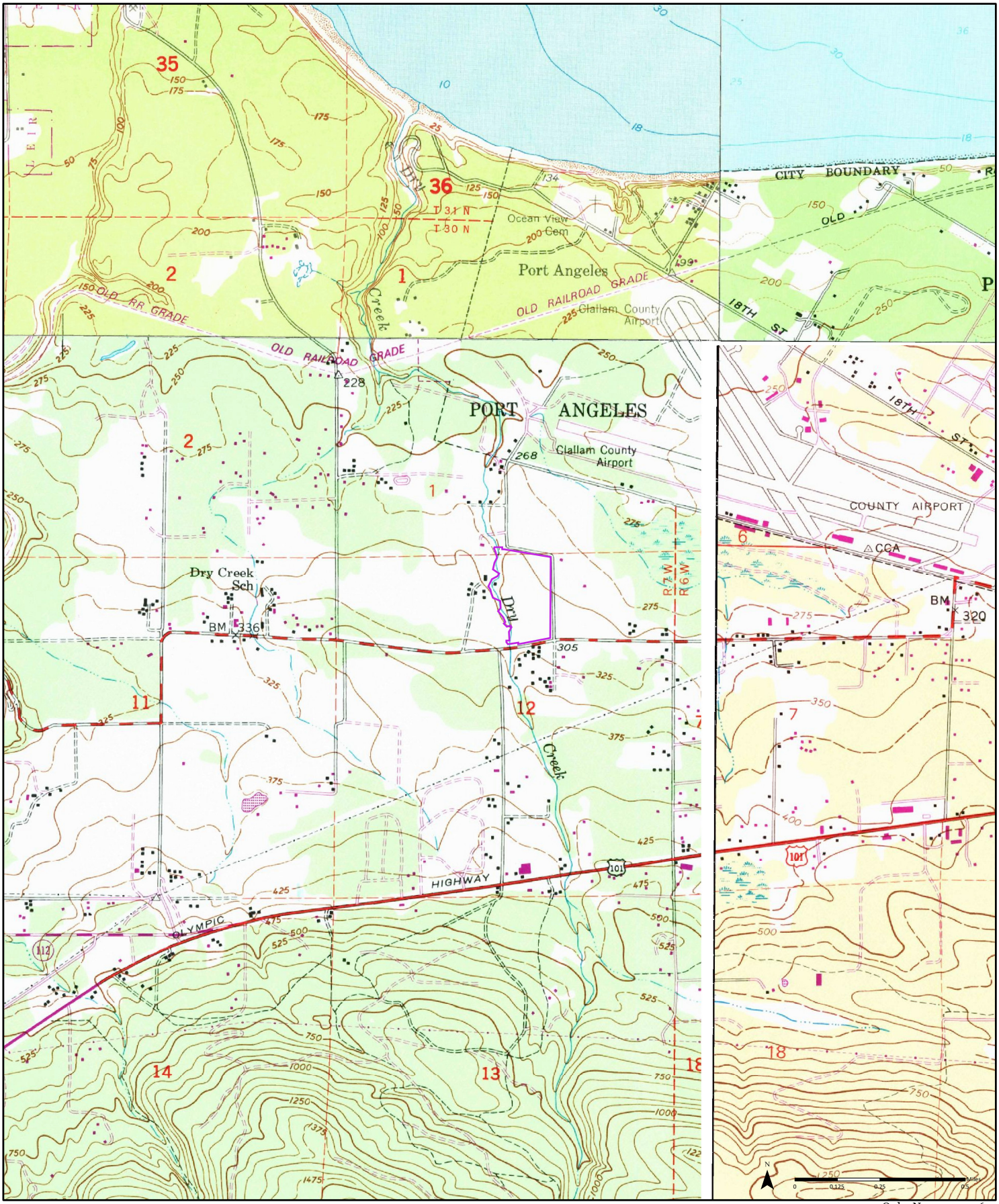
Order No. 24121300691

2017



Available Quadrangle(s): Elwha, WA
Port Angeles, WA
Angeles Point, WA
Ediz Hook, WA

Source: USGS 7.5 Minute Topographic Map



1985

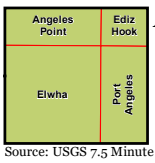
(1-1978) *Aerial Photo Year: 1976* *Photo Revision Year: 1978*

(2-1985) *Aerial Photo Year: 1981* *Photo Revision Year: 1985*

(3-1985) *Aerial Photo Year: 1981* *Photo Revision Year: 1985*

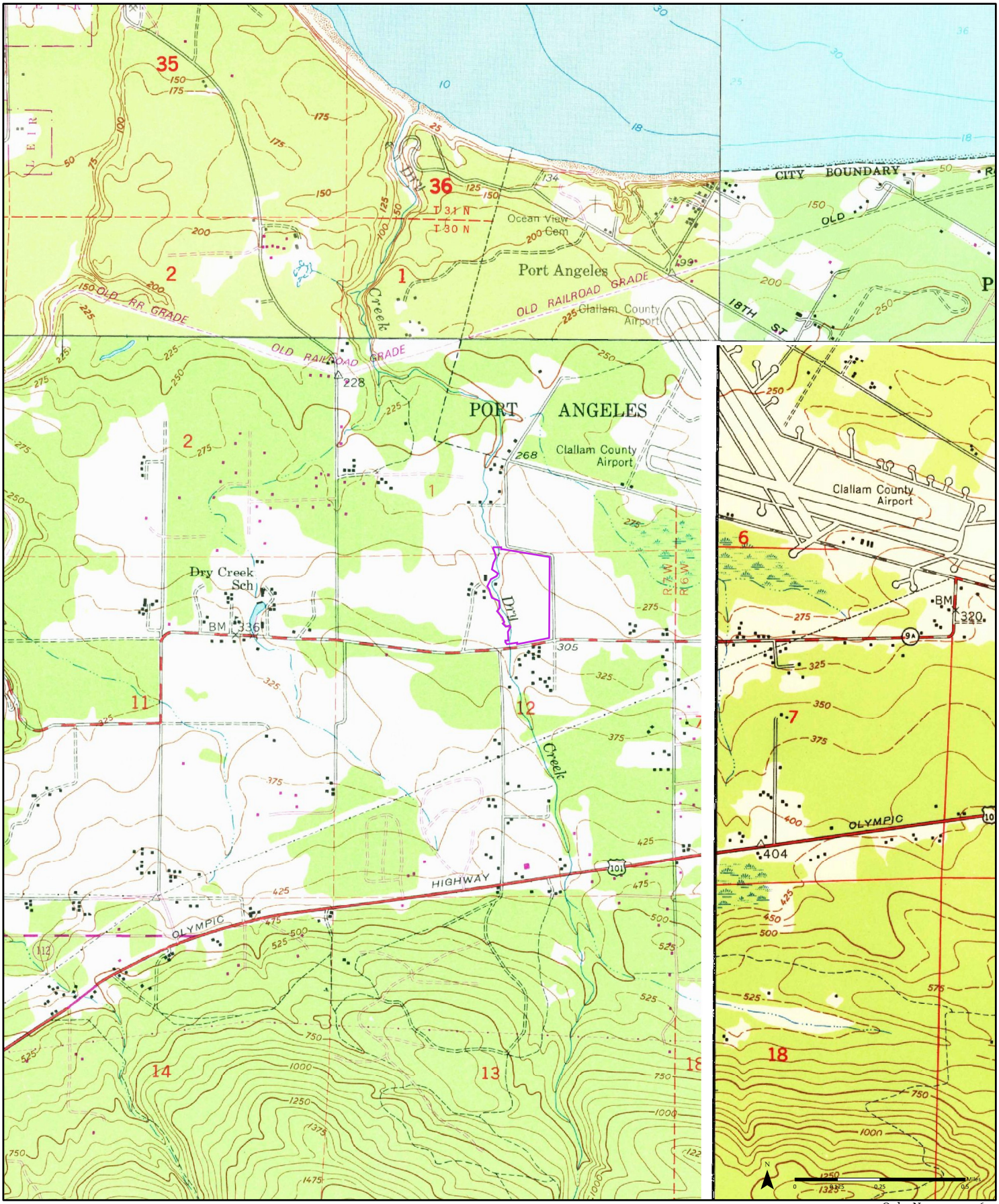
(4-1978) *Aerial Photo Year: 1976* *Photo Revision Year: 1978*

Order No. 24121300691



Available Quadrangle(s): Elwha, WA(2-1985)
Angeles Point, WA(1-1978)
Port Angeles, WA(3-1985)
Ediz Hook, WA(4-1978)

Source: USGS 7.5 Minute Topographic Map



1978

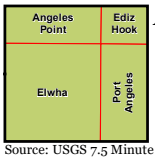
(1-1978) *Aerial Photo Year: 1976* *Photo Revision Year: 1978*

(2-1978) *Aerial Photo Year: 1976* *Photo Revision Year: 1978*

(3-1950) *Aerial Photo Year: 1943*

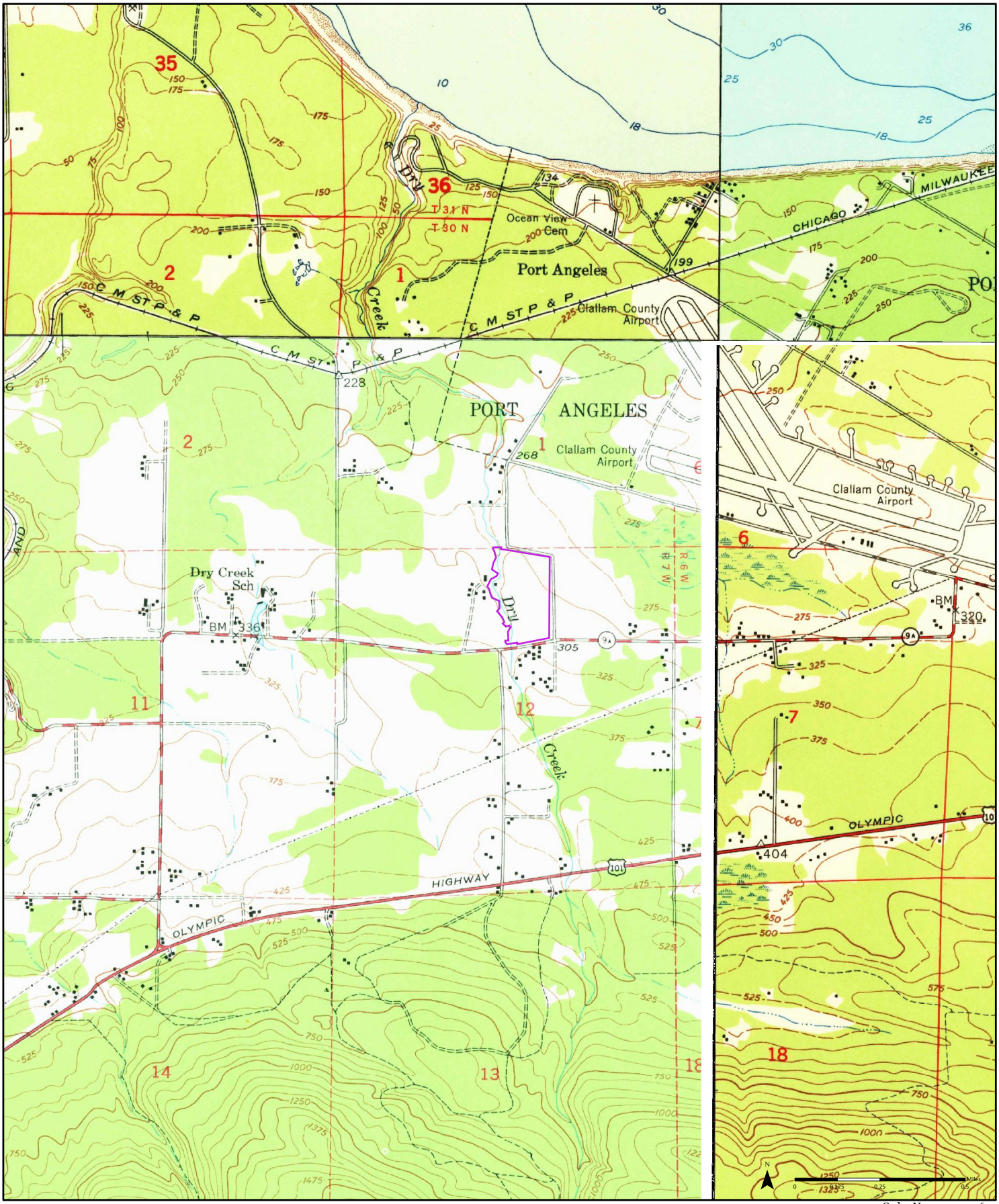
(4-1978) *Aerial Photo Year: 1976* *Photo Revision Year: 1978*

Order No. 24121300691



Available Quadrangle(s): Elwha, WA(4-1978)
Angeles Point, WA(1-1978)
Ediz Hook, WA(2-1978)
Port Angeles, WA(3-1950)

Source: USGS 7.5 Minute Topographic Map



1950

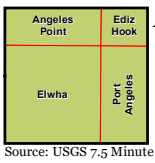
(1-1950) *Aerial Photo Year: 1943*

(2-1950) *Aerial Photo Year: 1943*

(3-1950) *Aerial Photo Year: 1943*

(4-1950) *Aerial Photo Year: 1943*

Order No. 24121300691



Available Quadrangle(s): Elwha, WA(2-1950)
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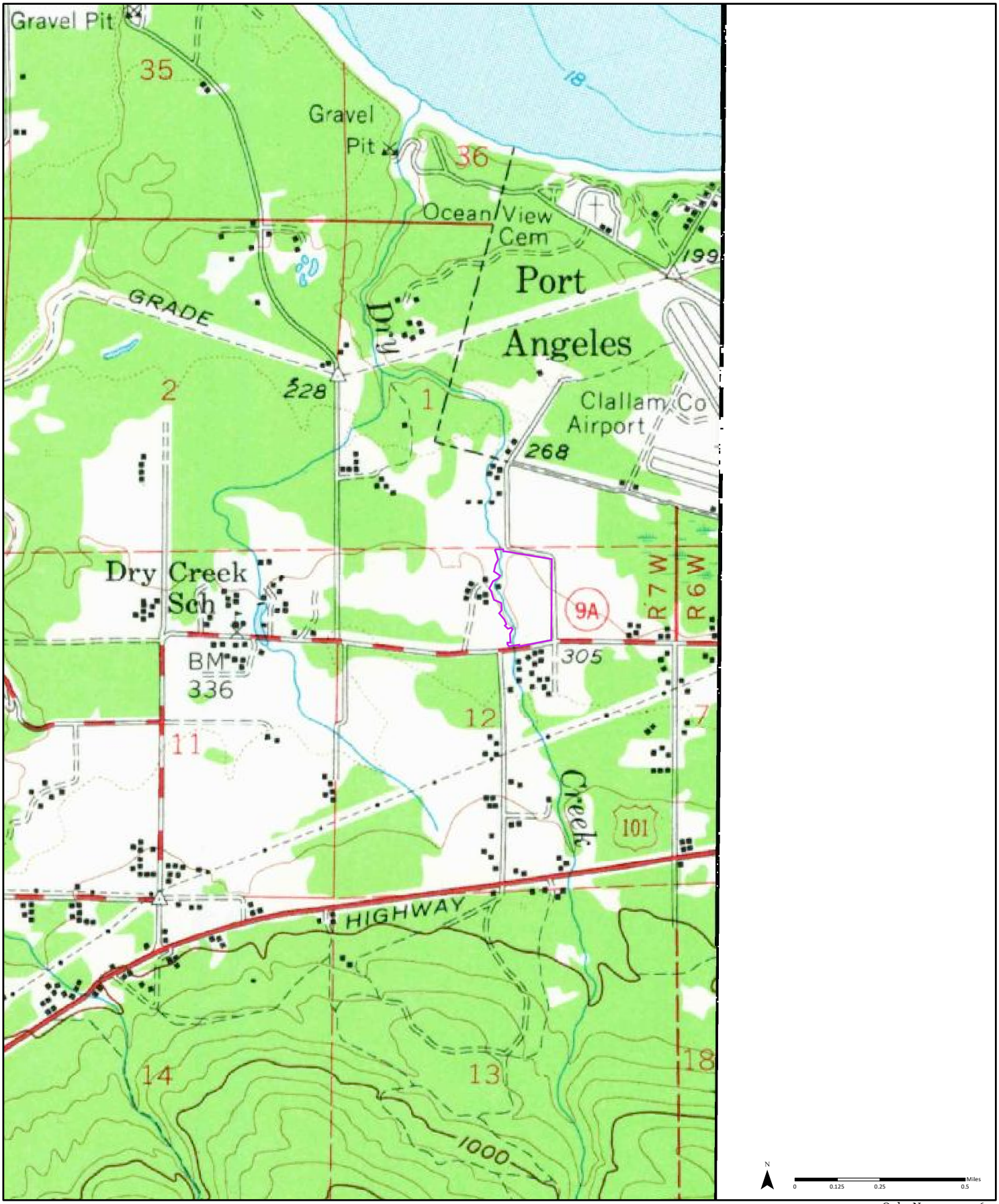
Port Angeles, WA(3-1950)
Ediz Hook, WA(4-1950)

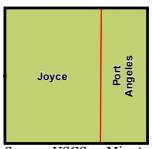
Source: USGS 7.5 Minute Topographic Map



1959 (1-1959)

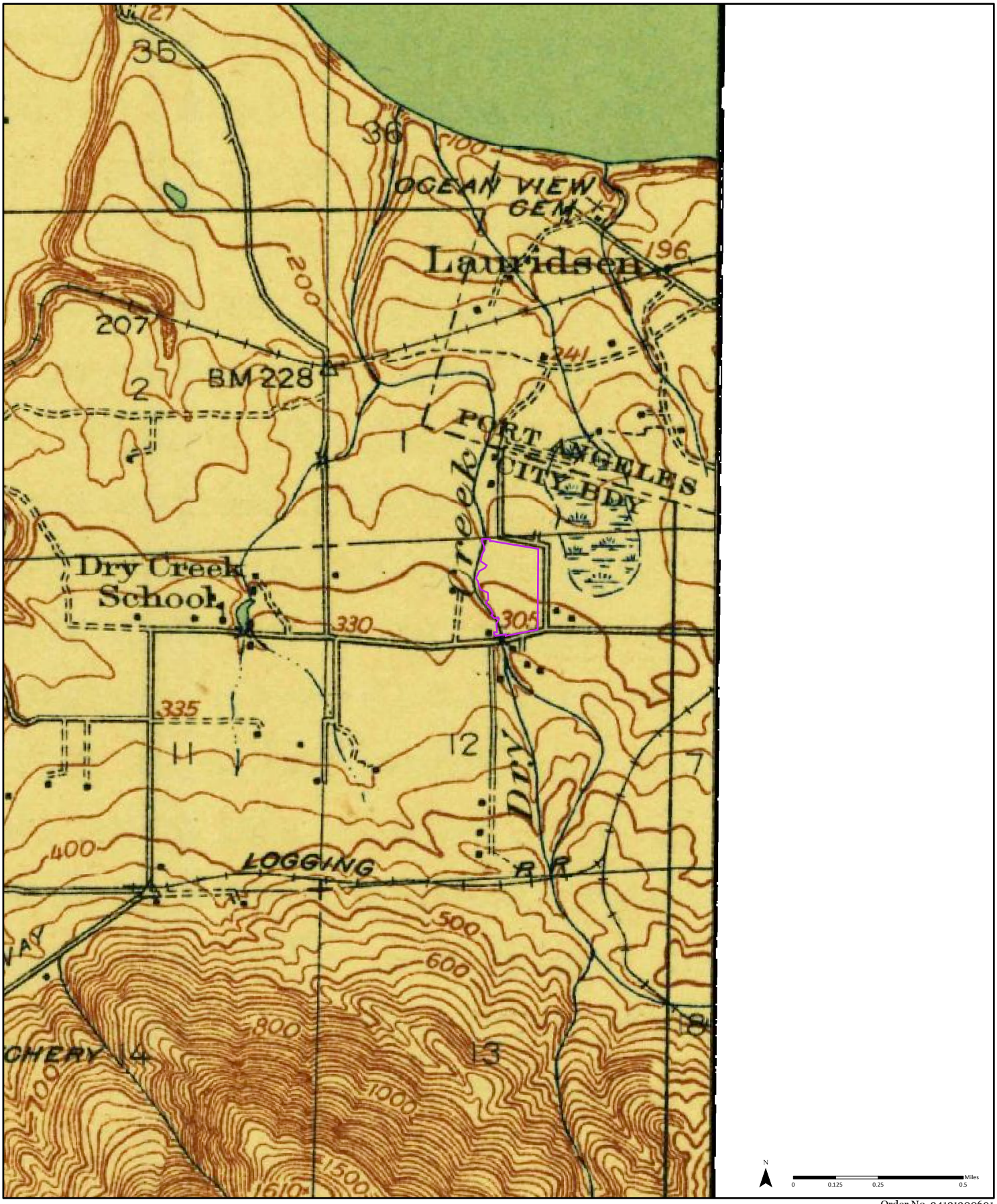
Aerial Photo Year: 1943

Order No. 24121300691



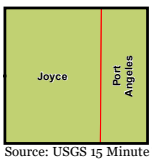
Available Quadrangle(s): Joyce, WA(1-1959)

Source: USGS 15 Minute Topographic Map



Order No. 24121300691

1919



Available Quadrangle(s): Port Crescent, WA

Source: USGS 15 Minute Topographic Map

APPENDIX F

Environmental Professional Resumes

Environmental Professional Qualifications

Wendy Key, PG (CA, WA), CEM (NV)

Wendy is a Principal with Geosyntec and has nearly 20 years of experience in variety of environmental projects in both the public and private sectors. Wendy leads and supports global due diligence programs throughout the United States, Canada, Australia, the United Kingdom, and Ireland. She conducts and manages environmental compliance assessments and audits to assist businesses looking to achieve and maintain compliance with state and federal environmental regulations. Wendy also has experience in the management, planning, implementation, data analysis, and reporting phases of environmental assessments including ASTM-compliant Phase I ESAs, subsurface soil and groundwater investigations, and Brownfields redevelopment projects. Wendy provides support to companies with regulatory issues/violations and businesses seeking assistance with agency interaction, strategy, and litigation support/risk reduction. Her management experience includes communicating with stakeholders including client leadership teams and employees, client attorneys, and regulators to meet project goals and designated requirements. Wendy also has management experience leading California environmental compliance programs and health & safety programs for a Fortune 500 company. Wendy holds a bachelor's in science degree in Geology from California State University, Sacramento and a master's in science degree in Geology from the University of Nevada, Reno. Wendy is a licensed Professional Geologist (PG) in the states of California and Washington and a Certified Environmental Manager (CEM) in the state of Nevada.

Erin Dunbar, R.G., L.G.

Ms. Dunbar has worked in environmental consulting since 2014. Her experience includes completing environmental due diligence Subject Property assessments in accordance with ASTM Standards for various industrial, commercial, and rural properties throughout the western region of the United States. Ms. Dunbar has also managed site investigations and remediation for brownfields and Superfund sites. Her field experience includes sampling groundwater, soil, sediment, soil and sub-slab vapor, and stormwater. Ms. Dunbar also has managed underground storage tank decommissioning projects, developed of spill prevention, control, and countermeasure (SPCC) plans, and developed numerous work plans, health and safety plans, and quality assurance project plans. Ms. Dunbar holds a Master of Arts degree in Hydrogeology from Portland State University (Portland, Oregon) and is a registered/licensed geologist in Oregon, Washington.

Madeline Ferry

Ms. Ferry is a Senior Staff Scientist in the Geosyntec Seattle office. She has been in the environmental consulting industry since 2019 with a focus in due diligence, specifically in Phase I and Phase II ESAs throughout the United States in accordance with ASTM standards and client requirements. Ms. Ferry also has experience conducting environmental transaction screens and limited environmental compliance reviews. Her responsibilities have included project

Environmental Professional Qualifications

management, report writing, data analysis, site reconnaissance and field work, and historical research. Ms. Ferry holds a Bachelor's degree in Environmental Analysis from Scripps College in Claremont, California.

McKenzie Elliott

Ms. Elliott graduated from Whitman College with a Bachelor's degree in Geology and is a Geologist-in-Training (GIT). Ms. Elliott has worked on a variety of environmental consulting projects dealing with investigation, remediation, and varying chemical contaminants. These projects have allowed Ms. Elliott to build an understanding of common release and contamination types. Her experience with due diligence work includes the development of Phase I and II ESAs for various industrial, agricultural, and residential sites in Washington State.

Jobe Traywick

Mr. Traywick graduated from Rocky Mountain College with a Bachelor's degree in Geology. He has been in the environmental consulting industry since 2021 with a focus in in Phase I and Phase II ESAs throughout the United States. Mr. Traywick has worked on a variety of environmental consulting projects dealing with investigation, remediation, and varying chemical contaminants. His responsibilities have included project management, report writing, data analysis, site reconnaissance and field work, and historical research. Prior to 2021, Mr. Traywick worked as a Grade Control Geologist in the mining industry.